UNITED NUCLEAR CORPORATION 40-8907

P.O. Box 3077
Gallup, New Mexico 87305-3077

Telephone: (505) 722-6651
Fax: (505) 722-6654

CERTIFIED - RETURN RECEIPT REQUESTED

August 25, 2003

Mr. Mark Purcell
U.S. Environmental Protection Agency
OK/NM Superfund (6EN-HX)
1445 Ross Avenue
Dallas, TX 75202-2733

Re: Semi-Annual Quality Assurance Report Ground Water Monitoring-First Half of 2003

Dear Mr.Purcell:

In accordance with Section V.A. 15 of the Administrative Order for the Church Rock Site, I have enclosed a report regarding performance of ground water monitoring quality assurance procedures during the entire first half of 2003.

Two quarterly sampling episodes occurred in the first half of 2003 (i.e. January and April).

Sincerely,

Larry Bush
Manager

LB:drb

Enclosure

Cc: NRC, Rockville, MD
NRC, Arlington, TX
Roy Blickwedel, GE
Robin Brown, NMED
Diana Malone, NNEPA
Shana Tritsch, US FIlter

NMSS01

SEMI-ANNUAL QUALITY ASSURANCE

CHURCH ROCK SITE

JANUARY THRU APRIL OF 2003 SAMPLING EVENTS

AUGUST - 2003

TABLE OF CONTENTS

1.0 Requirements

2.0 Field Sampling Procedures and QA/QC Report

3.0 Chain of Custody

4.0 Laboratory Quality Control

5.0 Data Validation

Appendix A: Quarterly Field Data Sheet

Appendix B: Quarterly QA/QC Field Blank and Duplicate Sample Report

Appendix C: Quarterly Chain of Custody

Appendix D: Quarterly Laboratory Quality Control and Performance Report

1.0 REQUIREMENTS

The quality assurance and control procedures are contained in Section 3.0 of the Remedial Action Plan of Church Rock Site dated April 1989. The procedures address sampling, chain of custody, laboratory quality control, and data validation. These requirements became effective July 3, 1989, when United Nuclear received the Administrative Order on the Church Rock Site from Environmental Protection Agency (EPA).

2.0 FIELD SAMPLING PROCEDURES AND QA/QC REPORT

Copies of the 2003 quarterly (1st and 2nd) field low flow purging and sampling data sheets, are included in Appendix A. These sheets indicate the field parameter of pH, temperature, conductivity, and the water level drop in the well if any, during the sampling. The quarterly QA/QC Field Blank and Duplicate analysis reports are included in Appendix B.

3.0 CHAIN OF CUSTODY

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

4.0 LABORATORY CONTROL

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

5.0 DATA EVALUATION

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

APPENDIX A

QUARTERLY

FIELD DATA SHEET

St dard Verification Check

STD.	PH Reading	Date/Time	Initial
4-Buffer	4.03	1-6-03 @ 0845	[illegible]
7-Buffer	6.96	1-6-03 @ 0850	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

1st QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	509-D	70.08'	70.11'	1st Cond. 5,270	2nd Cond. 5,880	Stable Cond. 5,930	Ending Cond. 5,600
				1st pH 6.56	2nd pH 6.53	Stable pH 6.53	Ending pH 6.33
				1st Temp. 10.8	2nd Temp. 10.8	Stable Temp. 10.5	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments: CONDUCTIVITY IS IN mS/cm; PH IS IN STD. UNITS; TEMPERATURE IS IN °C			
	0915	10.232	10.234				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	EPA-23	49.04'	49.26'	1st Cond. 3,930	2nd Cond. 4,290	Stable Cond. 4,320	Ending Cond. 4,360
				1st pH 7.09	2nd pH 7.00	Stable pH 6.80	Ending pH 6.58
				1st Temp. 9.8	2nd Temp. 9.8	Stable Temp. 10.3	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0950	12.854	12.609				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	B03	58.10'	58.20'	1st Cond. 5,480	2nd Cond. 6,400	Stable Cond. 6,390	Ending Cond. 6,510
				1st pH 6.71	2nd pH 6.56	Stable pH 6.47	Ending pH 6.47
				1st Temp. 9.5	2nd Temp. 9.7	Stable Temp. 10.0	Ending Temp. 11.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1020	18.633	18.495				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	808	45.78'	45.90'	1st Cond. 4,930	2nd Cond. 6,130	Stable Cond. 6,500	Ending Cond. 6,730
				1st pH 6.93	2nd pH 6.87	Stable pH 6.64	Ending pH 6.50
				1st Temp. 9.4	2nd Temp. 9.7	Stable Temp. 10.5	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1050	17.892	17.718				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	802	44.50'	44.55'	1st Cond. 2,460	2nd Cond. 5,970	Stable Cond. 6,360	Ending Cond. 7,280
				1st pH 7.77	2nd pH 7.30	Stable pH 6.64	Ending pH 6.42
				1st Temp. 11.4	2nd Temp. 10.7	Stable Temp. 11.0	Ending Temp. 12.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1115	23.220	23.149				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	801	48.25'	49.12'	1st Cond. 2,380	2nd Cond. 5,060	Stable Cond. 6,140	Ending Cond. 6,400
				1st pH 7.20	2nd pH 7.35	Stable pH 6.89	Ending pH 6.33
				1st Temp. 18.3	2nd Temp. 15.2	Stable Temp. 13.4	Ending Temp. 13.4
	Time	Bubbler Start	Bubbler End	Comments:			

Standard Verification Check

STD.	1 Reading	Date/Time	Initial
4-Buffer	4.06	1-7-03 @ 0830	[illegible]
7-Buffer	7.08	1-7-03 @ 0820	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

1st QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	GW-2	53.00'	53.36'	1st Cond. 3,450	2nd Cond. 4,890	Stable Cond. 5,200	Ending Cond. 5,560
				1st pH 6.89	2nd pH 6.88	Stable pH 6.65	Ending pH 6.33
				1st Temp. 9.7	2nd Temp. 8.8	Stable Temp. 8.8	Ending Temp. 10.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1330	17.649	17.356				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	GW-1	58.85'	58.88'	1st Cond. 3,800	2nd Cond. 4,610	Stable Cond. 5,080	Ending Cond. 5,810
				1st pH 7.01	2nd pH 7.28	Stable pH 7.38	Ending pH 6.57
				1st Temp. 10.6	2nd Temp. 10.5	Stable Temp. 10.7	Ending Temp. 11.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1400	11.851	11.809				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-6-03	632	41.51'	41.69'	1st Cond. 4,300	2nd Cond. 4,990	Stable Cond. 6,480	Ending Cond. 6,640
				1st pH 7.14	2nd pH 7.14	Stable pH 6.61	Ending pH 6.27
				1st Temp. 13.6	2nd Temp. 12.6	Stable Temp. 11.8	Ending Temp. 13.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1435	15.439	15.145				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-03	624	48.96'	48.94'	1st Cond. 3,160	2nd Cond. 4,710	Stable Cond. 5,180	Ending Cond. 5,360
				1st pH 6.69	2nd pH 7.17	Stable pH 6.74	Ending pH 6.57
				1st Temp. 8.3	2nd Temp. 8.5	Stable Temp. 9.3	Ending Temp. 10.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0850	13.627	13.586				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-03	624 DUPLICATE	48.94'	48.92'	1st Cond. 5,360	2nd Cond. 5,400	Stable Cond. 5,410	Ending Cond. 5,320
				1st pH 6.57	2nd pH 6.55	Stable pH 6.55	Ending pH 6.54
				1st Temp. 10.8	2nd Temp. 10.1	Stable Temp. 10.0	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0915	13.586	13.596				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-03	EPA-28	60.47'	60.61'	1st Cond. 4,330	2nd Cond. 4,520	Stable Cond. 4,980	Ending Cond. 4,960
				1st pH 7.56	2nd pH 7.61	Stable pH 7.62	Ending pH 6.80
				1st Temp. 9.1	2nd Temp. 9.0	Stable Temp. 9.5	Ending Temp. 10.3
	Time	Bubbler Start	Bubbler End	Comments:			
	0945	9.864	9.759				

Standard Verification Check

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

GROUND WATER MONITORING FIELD DATA SHEET

1st QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,060	2nd Cond. 4,620	Stable Cond. 5,320	Ending Cond. 5,510
	GW-3			1st pH 7.23	2nd pH 7.18	Stable pH 6.67	Ending pH 6.62
		50.22'	50.67'	1st Temp. 11.9	2nd Temp. 11.5	Stable Temp. 11.6	Ending Temp. 13.3
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1030	5.325	4.862				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,460	2nd Cond. 3,500	Stable Cond. 3,930	Ending Cond. 4,210
	EPA-25			1st pH 7.21	2nd pH 7.26	Stable pH 7.20	Ending pH 6.87
		51.32'	51.63'	1st Temp. 13.7	2nd Temp. 12.7	Stable Temp. 12.3	Ending Temp. 12.9
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1115	9.438	9.336				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,630	2nd Cond. 4,540	Stable Cond. 5,240	Ending Cond. 5,380
	627			1st pH 7.48	2nd pH 7.53	Stable pH 7.49	Ending pH 7.01
		55.43'	55.50'	1st Temp. 17.3	2nd Temp. 13.9	Stable Temp. 13.1	Ending Temp. 13.0
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1310	7.028	6.952				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 7,360	2nd Cond. 9,640	Stable Cond. 10,420	Ending Cond. 10,300
	613			1st pH 3.16	2nd pH 3.08	Stable pH 2.96	Ending pH 2.81
		78.20'	78.80'	1st Temp. 13.4	2nd Temp. 12.8	Stable Temp. 12.4	Ending Temp. 12.9
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1355	6.506	5.941				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,720	2nd Cond. 4,060	Stable Cond. 4,230	Ending Cond. 4,260
	517			1st pH 3.77	2nd pH 4.01	Stable pH 4.04	Ending pH 4.07
		100.85'	104.20'	1st Temp. 13.8	2nd Temp. 12.8	Stable Temp. 12.6	Ending Temp. 13.0
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1435	5.700	2.160				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,230	2nd Cond. 4,150	Stable Cond. 4,370	Ending Cond. 4,350
	EPA-14			1st pH 6.47	2nd pH 6.68	Stable pH 6.91	Ending pH 6.27
		106.95'	106.95'	1st Temp. 12.5	2nd Temp. 11.6	Stable Temp. 11.5	Ending Temp. 12.5
1-7-03	Time	Bubbler Start	Bubbler End	Comments:			
	1505	16.482	16.445				

Standard Verification Check

STD.	pH Reading	Date/Time	Initial
4-Buffer	4.05	1-8-03 @ 0815	[illegible]
7-Buffer	7.08	1-8-03 @ 0820	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

1st QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-03	614	99.85'	100.30'	1st Cond. 3,020	2nd Cond. 6,540	Stable Cond. 7,260	Ending Cond. 7,220
				1st pH 6.64	2nd pH 6.98	Stable pH 7.23	Ending pH 6.55
				1st Temp. 13.5	2nd Temp. 11.4	Stable Temp. 11.1	Ending Temp. 12.9
	Time	Bubbler Start	Bubbler End	Comments:			
	0840	6.512	6.059'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-03	515-A	99.52'	101.90'	1st Cond. 4,480	2nd Cond. 6,480	Stable Cond. 7,140	Ending Cond. 7,100
				1st pH 7.47	2nd pH 7.31	Stable pH 7.08	Ending pH 5.30
				1st Temp. 13.6	2nd Temp. 12.5	Stable Temp. 11.5	Ending Temp. 12.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0925	9.051	5.891				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-03	604	98.37'	98.68'	1st Cond. 5,670	2nd Cond. 6,060	Stable Cond. 6,460	Ending Cond. 6,480
				1st pH 5.81	2nd pH 5.40	Stable pH 5.20	Ending pH 4.75
				1st Temp. 14.5	2nd Temp. 13.3	Stable Temp. 12.5	Ending Temp. 13.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1000	10.895	10.435				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-03	FIELD BLANK			1st Cond. 17	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.18	2nd pH	Stable pH	Ending pH
				1st Temp. 9.7	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1045						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	504-B	160.40'	158.15'	1st Cond. 4,160	2nd Cond. 5,150	Stable Cond. 5,160	Ending Cond. 5,180
				1st pH 4.01	2nd pH 4.26	Stable pH 4.27	Ending pH 5.54
				1st Temp. 8.9	2nd Temp. 9.0	Stable Temp. 9.1	Ending Temp. 10.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0900	6.558	6.458				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	719	156.70'	157.30'	1st Cond. 3,850	2nd Cond. 4,770	Stable Cond. 5,010	Ending Cond. 4,810
				1st pH 3.20	2nd pH 3.04	Stable pH 2.96	Ending pH 3.27
				1st Temp. 11.2	2nd Temp. 11.1	Stable Temp. 10.9	Ending Temp. 12.6
	Time	Bubbler Start	Bubbler End	Comments:			
	0940	8.289	7.588				

Standard Verification Check

STD.	pH Reading	Date/Time	Initial
4-Buffer	4.02	1-13-03 @ 0835	[illegible]
7-Buffer	7.03	1-13-03 @ 0830	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET
1st QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	420	135.35'	135.55'	1st Cond. 2,030	2nd Cond. 3,230	Stable Cond. 3,390	Ending Cond. 3,460
				1st pH 6.60	2nd pH 7.00	Stable pH 7.22	Ending pH 6.53
				1st Temp. 10.5	2nd Temp. 10.0	Stable Temp. 9.9	Ending Temp. 12.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1010	7.861	8.492				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	717	118.30'	118.38'	1st Cond. 2,140	2nd Cond. 3,010	Stable Cond. 3,180	Ending Cond. 3,580
				1st pH 7.48	2nd pH 7.48	Stable pH 7.46	Ending pH 6.53
				1st Temp. 11.5	2nd Temp. 11.4	Stable Temp. 11.5	Ending Temp. 13.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	13.146	13.117				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	711	179.50'	180.07'	1st Cond. 2,650	2nd Cond. 4,450	Stable Cond. 5,030	Ending Cond. 4,660
				1st pH 3.91	2nd pH 3.24	Stable pH 2.96	Ending pH 4.43
				1st Temp. 13.9	2nd Temp. 12.3	Stable Temp. 11.9	Ending Temp. 13.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1115	12.341	11.650				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	711 DUPLICATE	180.07'	180.39'	1st Cond. 4,660	2nd Cond. 4,520	Stable Cond. 4,550	Ending Cond. 4,620
				1st pH 4.43	2nd pH 4.67	Stable pH 4.66	Ending pH 4.70
				1st Temp. 13.1	2nd Temp. 12.4	Stable Temp. 12.4	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1135	11.650	11.448				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	EPA-13	165.51'	166.38'	1st Cond. 2,540	2nd Cond. 3,560	Stable Cond. 5,140	Ending Cond. 5,390
				1st pH 6.08	2nd pH 6.38	Stable pH 6.72	Ending pH 5.94
				1st Temp. 18.3	2nd Temp. 13.9	Stable Temp. 13.1	Ending Temp. 13.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1310	7.306	6.515				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	708	148.37'	149.00'	1st Cond. 3,440	2nd Cond. 5,060	Stable Cond. 5,340	Ending Cond. 4,880
				1st pH 3.38	2nd pH 2.90	Stable pH 2.77	Ending pH 3.78
				1st Temp. 17.7	2nd Temp. 13.7	Stable Temp. 13.2	Ending Temp. 14.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1345	10.016	9.244				

Standard Verification Check

STD.	Reading	Date/Time	Initial
4-Buffer	7.08	1-14-03 @ 0825	[illegible]
7-Buffer	3.99	1-14-03 @ 0820	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

1st QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-13-03	TWQ-142	201.74'	202.19'	1st Cond. 1,300	2nd Cond. 1,461	Stable Cond. 1,531	Ending Cond. 1,573
				1st pH 7.19	2nd pH 7.38	Stable pH 7.48	Ending pH 7.86
				1st Temp. 13.4	2nd Temp. 12.9	Stable Temp. 12.5	Ending Temp. 13.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1426	18.321	18.889				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-03	EPA-2	170.36'	170.82'	1st Cond. 2,390	2nd Cond. 2,780	Stable Cond. 2,970	Ending Cond. 2,930
				1st pH 6.73	2nd pH 6.62	Stable pH 6.65	Ending pH 6.73
				1st Temp. 9.0	2nd Temp. 8.4	Stable Temp. 8.8	Ending Temp. 9.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0850	12.935	12.525				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-03	EPA-2 DUPLICATE	170.82'	170.89'	1st Cond. 2,930	2nd Cond. 2,920	Stable Cond. 2,890	Ending Cond. 2,930
				1st pH 6.73	2nd pH 6.72	Stable pH 6.71	Ending pH 6.71
				1st Temp. 9.8	2nd Temp. 9.9	Stable Temp. 9.8	Ending Temp. 11.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0920	12.525	12.458				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-03	EPA-7	110.57'	111.76'	1st Cond. 3,030	2nd Cond. 6,410	Stable Cond. 7,000	Ending Cond. 7,010
				1st pH 6.90	2nd pH 7.19	Stable pH 7.23	Ending pH 5.90
				1st Temp. 16.1	2nd Temp. 11.8	Stable Temp. 11.6	Ending Temp. 13.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1015	16.181'	15.320				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-03	EPA-5	121.15'	121.63'	1st Cond. 3,390	2nd Cond. 4,040	Stable Cond. 4,820	Ending Cond. 4,870
				1st pH 6.58	2nd pH 6.60	Stable pH 6.59	Ending pH 5.85
				1st Temp. 13.2	2nd Temp. 12.8	Stable Temp. 12.6	Ending Temp. 14.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1045	9.505	9.185				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-03	EPA-4	202.42'	202.74'	1st Cond. 2,640	2nd Cond. 3,890	Stable Cond. 4,190	Ending Cond. 4,340
				1st pH 7.01	2nd pH 6.75	Stable pH 6.61	Ending pH 6.49
				1st Temp. 16.0	2nd Temp. 14.5	Stable Temp. 13.6	Ending Temp. 14.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1130	20.420	20.096				

Standard Verification Check

STD.	H Reading	Date/Time	Initial
4-Buffer	3.98	1-15-03 @ 0830	[illegible]
7-Buffer	2.05	1-15-03 @ 0835	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET
1st QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-15-03	NBL-1	169.40'	169.45'	1st Cond. 2,150	2nd Cond. 2,890	Stable Cond. 3,180	Ending Cond. 3,300
				1st pH 8.08	2nd pH 8.28	Stable pH 6.86	Ending pH 6.43
				1st Temp. 14.1	2nd Temp. 12.8	Stable Temp. 12.1	Ending Temp. 12.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1000	12.025	13.066				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-15-03	FIELD BLANK			1st Cond. 17	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 8.01	2nd pH	Stable pH	Ending pH
				1st Temp. 8.7	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1055						

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

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

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

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

Standard Verification Check

STD.	Reading	Date/Time	Initial
4-Buffer	4.01	4-7 @ 0850	[illegible]
7-Buffer	6.92	4-7 @ 0845	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	509-D	70.35'	70.34'	1st Cond. 3,740	2nd Cond. 4,980	Stable Cond. 5,720	Ending Cond. 5,920
				1st pH 6.68	2nd pH 6.65	Stable pH 6.48	Ending pH 6.33
				1st Temp. 10.5	2nd Temp. 10.7	Stable Temp. 11.1	Ending Temp. 11.6
	Time	Bubbler Start	Bubbler End	Comments: CONDUCTIVITY IS IN µS/cm; PH IS IN STD. UNITS; TEMPERATURE IS IN °C			
	0900	9.915'	9.969'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	EPA-23	49.05'	49.29'	1st Cond. 2,990	2nd Cond. 4,140	Stable Cond. 4,500	Ending Cond. 4,500
				1st pH 6.85	2nd pH 6.81	Stable pH 6.69	Ending pH 6.65
				1st Temp. 11.0	2nd Temp. 11.1	Stable Temp. 10.9	Ending Temp. 12.5
	Time	Bubbler Start	Bubbler End	Comments:			
	0940	12.827'	12.585'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	803	57.95'	58.10'	1st Cond. 4,830	2nd Cond. 6,210	Stable Cond. 6,830	Ending Cond. 6,950
				1st pH 6.51	2nd pH 6.47	Stable pH 6.42	Ending pH 6.37
				1st Temp. 11.1	2nd Temp. 11.1	Stable Temp. 11.2	Ending Temp. 11.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1010	18.734'	18.604'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	808	45.65'	45.71'	1st Cond. 4,210	2nd Cond. 5,100	Stable Cond. 6,750	Ending Cond. 7,020
				1st pH 6.73	2nd pH 6.68	Stable pH 6.58	Ending pH 6.43
				1st Temp. 11.4	2nd Temp. 11.6	Stable Temp. 11.8	Ending Temp. 12.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	17.938'	17.853'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	802	44.30'	44.28'	1st Cond. 2,030	2nd Cond. 6,620	Stable Cond. 7,440	Ending Cond. 7,620
				1st pH 7.40	2nd pH 6.58	Stable pH 6.46	Ending pH 6.43
				1st Temp. 12.5	2nd Temp. 12.6	Stable Temp. 12.6	Ending Temp. 13.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1105	23.342'	23.278'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	632	41.38'	41.48'	1st Cond. 4,620	2nd Cond. 5,730	Stable Cond. 6,840	Ending Cond. 7,190
				1st pH 7.02	2nd pH 6.89	Stable pH 6.42	Ending pH 6.29
				1st Temp. 12.0	2nd Temp. 11.9	Stable Temp. 12.1	Ending Temp. 12.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1135	15.574'	15.340'				

Standard Verification Check

STD.	pH Reading	Date/Time	Initial
4-Buffer	4.10	4-8 @ 0825	[illegible]
7-Buffer	7.10	4-8 @ 0830	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	801	48.05'	48.98'	1st Cond. 2,840	2nd Cond. 5,430	Stable Cond. 6,350	Ending Cond. 6,860
				1st pH 7.24	2nd pH 6.78	Stable pH 6.50	Ending pH 6.37
				1st Temp. 13.7	2nd Temp. 13.5	Stable Temp. 12.5	Ending Temp. 11.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1315	13.584'	12.616'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	GW-2	52.90'	53.15'	1st Cond. 2,540	2nd Cond. 5,030	Stable Cond. 5,680	Ending Cond. 6,040
				1st pH 6.58	2nd pH 6.53	Stable pH 6.48	Ending pH 6.35
				1st Temp. 8.1	2nd Temp. 8.0	Stable Temp. 8.1	Ending Temp. 10.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1345	17.779'	17.555'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	GW-1	58.65'	58.69'	1st Cond. 3,680	2nd Cond. 4,920	Stable Cond. 5,610	Ending Cond. 6,260
				1st pH 7.49	2nd pH 7.28	Stable pH 6.80	Ending pH 6.57
				1st Temp. 12.3	2nd Temp. 12.3	Stable Temp. 12.0	Ending Temp. 13.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1420	11.998'	11.980'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-7-03	GW-1 DUPLICATE	58.69'	58.73'	1st Cond. 6,260	2nd Cond. 6,350	Stable Cond. 6,370	Ending Cond. 6,390
				1st pH 6.57	2nd pH 6.56	Stable pH 6.56	Ending pH 6.60
				1st Temp. 13.1	2nd Temp. 12.9	Stable Temp. 12.8	Ending Temp. 11.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1450	11.980'	11.976'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	624	48.85'	48.93'	1st Cond. 3,350	2nd Cond. 4,260	Stable Cond. 5,360	Ending Cond. 5,650
				1st pH 7.34	2nd pH 7.01	Stable pH 6.65	Ending pH 6.49
				1st Temp. 11.6	2nd Temp. 11.4	Stable Temp. 11.4	Ending Temp. 11.8
	Time	Bubbler Start	Bubbler End	Comments:			
	0850	13.673'	13.651'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	EPA-28	60.37'	60.53'	1st Cond. 4,980	2nd Cond. 5,210	Stable Cond. 5,340	Ending Cond. 5,300
				1st pH 6.93	2nd pH 6.90	Stable pH 6.81	Ending pH 6.68
				1st Temp. 12.3	2nd Temp. 12.3	Stable Temp. 12.0	Ending Temp. 13.2
	Time	Bubbler Start	Bubbler End	Comments:			
	0920	9.994'	9.900'				

Standard Verification Check

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

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	GW-3	50.20'	50.65'	1st Cond. 3,270	2nd Cond. 3,550	Stable Cond. 5,350	Ending Cond. 5,850
				1st pH 7.12	2nd pH 7.13	Stable pH 6.60	Ending pH 6.60
				1st Temp. 12.1	2nd Temp. 11.8	Stable Temp. 11.8	Ending Temp. 12.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1010	5.433'	4.925'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	EPA-25	51.42'	51.55'	1st Cond. 2,630	2nd Cond. 3,910	Stable Cond. 4,290	Ending Cond. 4,470
				1st pH 7.14	2nd pH 7.14	Stable pH 7.02	Ending pH 6.89
				1st Temp. 13.1	2nd Temp. 12.9	Stable Temp. 12.4	Ending Temp. 12.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1055	4.887'	5.203'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	627	55.70'	55.76'	1st Cond. 4,480	2nd Cond. 4,900	Stable Cond. 5,560	Ending Cond. 5,680
				1st pH 7.58	2nd pH 7.57	Stable pH 7.20	Ending pH 6.98
				1st Temp. 13.8	2nd Temp. 13.4	Stable Temp. 13.3	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1140	6.788'	6.732'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	613	78.35'	78.98'	1st Cond. 8,050	2nd Cond. 9,610	Stable Cond. 10,650	Ending Cond. 10,800
				1st pH 3.10	2nd pH 3.04	Stable pH 2.94	Ending pH 2.87
				1st Temp. 15.8	2nd Temp. 14.4	Stable Temp. 13.5	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1320	6.319'	5.660'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	517	100.94'	104.42'	1st Cond. 2,610	2nd Cond. 2,950	Stable Cond. 4,360	Ending Cond. 4,470
				1st pH 4.40	2nd pH 4.29	Stable pH 4.13	Ending pH 4.12
				1st Temp. 16.2	2nd Temp. 15.2	Stable Temp. 14.5	Ending Temp. 14.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1355	5.650'	2.153'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	EPA-14	107.24'	107.35'	1st Cond. 2,110	2nd Cond. 3,810	Stable Cond. 4,490	Ending Cond. 4,630
				1st pH 7.64	2nd pH 7.42	Stable pH 7.11	Ending pH 5.90
				1st Temp. 16.1	2nd Temp. 14.8	Stable Temp. 13.8	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1425	4.339'	4.409'				

Standard Verification Check

STD.	4 Reading	Date/Time	Initial
4-Buffer	4.09	4-9 @ 0830	[illegible]
7-Buffer	7.09	4-9 @ 0835	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-03	717	118.57'	118.62'	1st Cond. 2,150	2nd Cond. 2,920	Stable Cond. 3,330	Ending Cond. 3,870
				1st pH 7.69	2nd pH 7.62	Stable pH 7.44	Ending pH 6.44
				1st Temp. 15.8	2nd Temp. 15.3	Stable Temp. 14.3	Ending Temp. 14.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1455	12.859'	12.803'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-9-03	614	100.15'	100.65'	1st Cond. 4,680	2nd Cond. 5,370	Stable Cond. 7,400	Ending Cond. 7,630
				1st pH 7.24	2nd pH 7.27	Stable pH 7.18	Ending pH 6.44
				1st Temp. 11.9	2nd Temp. 11.8	Stable Temp. 12.2	Ending Temp. 12.9
	Time	Bubbler Start	Bubbler End	Comments:			
	0900	6.294'	5.860'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-9-03	515-A	99.87'	102.70'	1st Cond. 5,680	2nd Cond. 6,100	Stable Cond. 7,470	Ending Cond. 7,410
				1st pH 6.91	2nd pH 6.75	Stable pH 6.55	Ending pH 5.31
				1st Temp. 13.4	2nd Temp. 12.8	Stable Temp. 12.8	Ending Temp. 13.3
	Time	Bubbler Start	Bubbler End	Comments:			
	0945	9.236'	6.094'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-9-03	FIELD BLANK			1st Cond. 28	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 7.51	2nd pH	Stable pH	Ending pH
				1st Temp. 14.3	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1040						

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

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

Standard Verification Check

STD.	H Reading	Date/Time	Initial
4-Buffer	3.92 & 4.03	4-14 @ 0810 & 0945	[illegible]
7-Buffer	6.95 & 7.04	4-14 @ 0815 & 0950	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	604	98.40'	98.97'	1st Cond. 5,070	2nd Cond. 5,860	Stable Cond. 6,910	Ending Cond. 6,650
				1st pH 4.76	2nd pH 4.71	Stable pH 4.68	Ending pH 4.73
				1st Temp. 13.3	2nd Temp. 12.9	Stable Temp. 13.1	Ending Temp. 12.8
	Time	Bubbler Start	Bubbler End	Comments: THE CONDUCTIVITY PROBE WAS ACCIDENTALLY BROKEN ON 4-14-03 AFTER SAMPLING/READING WELL # 604. PROBE AND METER WAS REPLACED WITH A SPARE PH/CONDUCTIVITY METER.			
	0900	10.376'	10.475'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	EPA-7	110.80'	111.51'	1st Cond. 5,430	2nd Cond. 5,330	Stable Cond. 5,310	Ending Cond. 5,350
				1st pH 6.26	2nd pH 6.34	Stable pH 6.38	Ending pH 6.19
				1st Temp. 13.2	2nd Temp. 13.2	Stable Temp. 13.0	Ending Temp. 13.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1000	16.183'	15.404'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	EPA-5	121.20'	121.43'	1st Cond. 3,660	2nd Cond. 3,880	Stable Cond. 3,860	Ending Cond. 3,880
				1st pH 6.31	2nd pH 6.34	Stable pH 6.36	Ending pH 6.00
				1st Temp. 14.7	2nd Temp. 14.5	Stable Temp. 14.1	Ending Temp. 13.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	9.524'	9.178'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	EPA-4	202.36'	202.67'	1st Cond. 2,150	2nd Cond. 3,400	Stable Cond. 3,320	Ending Cond. 3,530
				1st pH 6.27	2nd pH 6.30	Stable pH 6.35	Ending pH 6.67
				1st Temp. 14.5	2nd Temp. 14.3	Stable Temp. 13.4	Ending Temp. 13.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1125	20.508'	20.202'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	TWQ-142	201.42'	201.68'	1st Cond. 197	2nd Cond. 810	Stable Cond. 1,253	Ending Cond. 1,355
				1st pH 7.21	2nd pH 7.27	Stable pH 7.28	Ending pH 7.89
				1st Temp. 17.0	2nd Temp. 16.5	Stable Temp. 15.9	Ending Temp. 15.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1330	19.566'	19.420'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	NBL-1	169.54'	169.60'	1st Cond. 2,590	2nd Cond. 2,660	Stable Cond. 2,630	Ending Cond. 2,650
				1st pH 7.01	2nd pH 6.99	Stable pH 6.86	Ending pH 6.87
				1st Temp. 14.4	2nd Temp. 13.9	Stable Temp. 13.1	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1430	13.129'	13.065'				

Standard Verification Check

STD.	pH Reading	Date/Time	Initial
4-Buffer	4.04	4-15 @ 0824	[illegible]
7-Buffer	6.94	4-15 @ 0826	[illegible]

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003

SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-14-03	504-B	160.20'	160.40'	1st Cond. 2,080	2nd Cond. 3,690	Stable Cond. 3,830	Ending Cond. 4,210
				1st pH 4.08	2nd pH 3.81	Stable pH 3.63	Ending pH 5.14
				1st Temp. 14.5	2nd Temp. 14.1	Stable Temp. 13.7	Ending Temp. 13.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1500	6.796'	6.580'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-15-03	719	156.42'	157.17'	1st Cond. 4,110	2nd Cond. 4,800	Stable Cond. 5,040	Ending Cond. 5,020
				1st pH 2.93	2nd pH 2.91	Stable pH 2.88	Ending pH 3.26
				1st Temp. 11.8	2nd Temp. 11.7	Stable Temp. 11.6	Ending Temp. 11.3
	Time	Bubbler Start	Bubbler End	Comments:			
	0845	8.599	7.860'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-15-03	420	135.23'	135.39'	1st Cond. 2,550	2nd Cond. 3,090	Stable Cond. 3,220	Ending Cond. 3,630
				1st pH 5.78	2nd pH 5.91	Stable pH 6.09	Ending pH 6.44
				1st Temp. 9.7	2nd Temp. 9.7	Stable Temp. 9.7	Ending Temp. 10.2
	Time	Bubbler Start	Bubbler End	Comments:			
	0915	8.993	8.731				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-15-02	EPA-2	169.95'	170.43'	1st Cond. 2,990	2nd Cond. 3,020	Stable Cond. 3,020	Ending Cond. 3,010
				1st pH 6.60	2nd pH 6.61	Stable pH 6.65	Ending pH 6.76
				1st Temp. 9.3	2nd Temp. 9.4	Stable Temp. 9.5	Ending Temp. 9.3
	Time	Bubbler Start	Bubbler End	Comments: NO BUBBLER READING TAKEN DUE TO ADVERSE WEATHER CONDITIONS AND READING DOES NOT STABILIZE IN A SHORT TIME.			
	0950						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-15-03	EPA-2 DUPLICATE	170.43'	170.65'	1st Cond. 3,010	2nd Cond. 3,020	Stable Cond. 3,020	Ending Cond. 3,250
				1st pH 6.76	2nd pH 6.74	Stable pH 6.72	Ending pH 6.84
				1st Temp. 9.3	2nd Temp. 9.1	Stable Temp. 9.2	Ending Temp. 9.7
	Time	Bubbler Start	Bubbler End	Comments:			
	1010						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-15-03	711	179.14'	179.67'	1st Cond. 4,460	2nd Cond. 5,240	Stable Cond. 5,300	Ending Cond. 4,860
				1st pH 2.99	2nd pH 2.94	Stable pH 2.93	Ending pH 4.43
				1st Temp. 9.2	2nd Temp. 9.6	Stable Temp. 9.9	Ending Temp. 10.8
	Time	Bubbler Start	Bubbler End	Comments:			
	1240	12.847'	12.319'				

Standard Verification Check

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

GROUND WATER MONITORING FIELD DATA SHEET

2nd QUARTER 2003
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	711			1st Cond. 4,860	2nd Cond. 4,840	Stable Cond. 4,840	Ending Cond. 4,760
	DUPLICATE			1st pH 4.43	2nd pH 4.49	Stable pH 4.53	Ending pH 4.69
4-15-03		179.67'	180.00'	1st Temp. 10.8	2nd Temp. 10.9	Stable Temp. 10.8	Ending Temp. 11.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1305	12.319'	11.908'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,390	2nd Cond. 4,490	Stable Cond. 5,260	Ending Cond. 5,540
	EPA-13			1st pH 5.62	2nd pH 5.67	Stable pH 5.72	Ending pH 5.87
		165.30'	165.90'	1st Temp. 10.2	2nd Temp. 10.5	Stable Temp. 10.7	Ending Temp. 11.8
4-15-03	Time	Bubbler Start	Bubbler End	Comments:			
	1330	7.701'	6.890'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,040	2nd Cond. 4,860	Stable Cond. 5,310	Ending Cond. 5,280
	708			1st pH 2.83	2nd pH 2.81	Stable pH 2.78	Ending pH 3.31
		148.10'	148.95'	1st Temp. 10.1	2nd Temp. 10.2	Stable Temp. 10.3	Ending Temp. 10.6
4-15-03	Time	Bubbler Start	Bubbler End	Comments:			
	1410	10.330'	9.511'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 18	2nd Cond.	Stable Cond.	Ending Cond.
	FIELD			1st pH 5.82	2nd pH	Stable pH	Ending pH
	BLANK			1st Temp. 9.0	2nd Temp.	Stable Temp.	Ending Temp.
4-15-03	Time	Bubbler Start	Bubbler End	Comments:			
	1450						

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

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

APPENDIX B

QUARTERLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

JANUARY THRU APRIL OF 2003

QA AND QC CONTROLS

FIELD BLANKS

624 AND 624 DUPLICATE FOR SW ALLUVIUM (JAN.)

GW-1 AND GW-1 DUPLICATE FOR SW ALLUVIUM (APRIL)

EPA-2 AND EPA-2 DUPLICATE FOR ZONE 1

711 AND 711 DUPLICATE FOR ZONE 3

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	**Field Blank**
LABORATORY ID:	**C03010390-004**
SAMPLE DATE/TIME:	**01/08/2003 10:45**
DATE/TIME RECEIVED:	**01/13/2003 10:00**
REPORT DATE:	**February 4, 2003**
UNC SUBMITTAL #:	**TE-1-1-2003**

Major Ions	Method	Units	Reporting Limit	Results
Calcium	EPA 200.7	mg/L	1.0	< 1.0
Magnesium	EPA 200.7	mg/L	1.0	< 1.0
Sodium	EPA 200.7	mg/L	1.0	< 1.0
Potassium	EPA 200.7	mg/L	1.0	< 1.0
Bicarbonate	SM 2320-B	mg/L	0.10	8.50
Sulfate	EPA 200.7	mg/L	1.0	< 1.0
Chloride	EPA 200.7	mg/L	1.0	< 1.0
Ammonium as N	SM 4500 NH_3-G	mg/L	0.05	< 0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10
Non-Metals				
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10
pH	SM 4500-H-B	std. units	0.10	6.57
Trace Metals, dissolved				
Aluminum	EPA 200.8	mg/L	0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	< 0.01
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10
Radiometrics				
Uranium, dissolved	EPA 200.8	mg/L	0.0003	< 0.0003
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2
Radium Error Estimate ±				-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0
Radium Error Estimate ±				-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2
Thorium Error Estimate ±				-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0
Lead Error Estimate ±				-
Gross Alpa-Ra & U	EPA 900.0	pCi/L	1.0	< 1.0
G. Alpha Error Estimate ±				-
Trace Organics				
Chloroform	EPA 624	µg/L	1.0	< 1.0

Quality Assurance Data		Target Range	
Anion	meq		0.20
Cation	meq		0.21
SM A/C Balance	%	-5 - +5	* 2.76
Calc TDS	mg/L		10.8
TDS A/C Balance	dec. %	0.80 - 1.20	* 0.93

* Balances inappropriate for near blank samples

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	**Field Blank**
LABORATORY ID:	**C03010599-007**
SAMPLE DATE/TIME:	**01/15/2003 10:55**
DATE/TIME RECEIVED:	**01/20/2003 10:00**
REPORT DATE:	**February 11, 2003**
UNC SUBMITTAL #:	**TE-2-1-2003**

Major Ions	Method	Units	Reporting Limit	Results
Calcium	EPA 200.7	mg/L	1.0	< 1.0
Magnesium	EPA 200.7	mg/L	1.0	< 1.0
Sodium	EPA 200.7	mg/L	1.0	< 1.0
Potassium	EPA 200.7	mg/L	1.0	< 1.0
Bicarbonate	SM 2320-B	mg/L	0.10	7.90
Sulfate	EPA 200.7	mg/L	1.0	< 1.0
Chloride	EPA 200.7	mg/L	1.0	< 1.0
Ammonium as N	SM 4500 NH_3-G	mg/L	0.05	< 0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10
Non-Metals				
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10
pH	SM 4500-H-B	std. units	0.10	6.56
Trace Metals, dissolved				
Aluminum	EPA 200.8	mg/L	0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	< 0.01
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10
Radiometrics				
Uranium, dissolved	EPA 200.8	mg/L	0.0003	< 0.0003
Radium 226	EPA 903.0	pCi/L	0.2	0.5
Radium Error Estimate ±				0.2
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0
Radium Error Estimate ±				-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2
Thorium Error Estimate ±				-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0
Lead Error Estimate ±				-
Gross Alpa-Ra & U	EPA 900.0	pCi/L	1.0	< 1.0
G. Alpha Error Estimate ±				-
Trace Organics				
Chloroform	EPA 624	µg/L	1.0	< 1.0

Quality Assurance Data		Target Range	
Anion	meq		0.19
Cation	meq		0.21
SM A/C Balance	%	-5 - +5	* 5.33
Calc TDS	mg/L		10.5
TDS A/C Balance	dec. %	0.80 - 1.20	* 0.96

* Balances inappropriate for near blank samples

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	Field Blank
LABORATORY ID:	C03040537-003
SAMPLE DATE/TIME:	04/09/2003 10:40
DATE/TIME RECEIVED:	04/11/2003 10:00
REPORT DATE:	May 1, 2003
UNC SUBMITTAL #:	TE-3-4-2003

Major Ions	Method	Units	Reporting Limit	Results
Calcium	EPA 200.7	mg/L	1.0	< 1.0
Magnesium	EPA 200.7	mg/L	1.0	< 1.0
Sodium	EPA 200.7	mg/L	1.0	< 1.0
Potassium	EPA 200.7	mg/L	1.0	7.9
Bicarbonate	SM 2320-B	mg/L	0.10	< 0.10
Sulfate	EPA 200.7	mg/L	1.0	< 1.0
Chloride	EPA 200.7	mg/L	1.0	< 1.0
Ammonium as N	SM 4500 NH_3-G	mg/L	0.05	< 0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10
Non-Metals				
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10
pH	SM 4500-H-B	std. units	0.10	6.36
Trace Metals, dissolved				
Aluminum	EPA 200.8	mg/L	0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	< 0.01
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10
Radiometrics				
Uranium, dissolved	EPA 200.8	mg/L	0.0003	< 0.0003
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2
Radium Error Estimate ±				-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0
Radium Error Estimate ±				-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2
Thorium Error Estimate ±				-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0
Lead Error Estimate ±				-
Gross Alpa-Ra & U	EPA 900.0	pCi/L	1.0	< 1.0
G. Alpha Error Estimate ±				-
Trace Organics				
Chloroform	EPA 624	µg/L	1.0	< 1.0

Quality Assurance Data		Target Range	
Anion	meq		0.06
Cation	meq		0.38
SM A/C Balance	%	-5 - +5	* 73.81
Calc TDS	mg/L		13.5
TDS A/C Balance	dec. %	0.80 - 1.20	* 0.74

* Balances inappropriate for near blank samples

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	Field Blank
LABORATORY ID:	C03040792-008
SAMPLE DATE/TIME:	04/15/2003 14:50
DATE/TIME RECEIVED:	04/18/2003 10:00
REPORT DATE:	May 12, 2003
UNC SUBMITTAL #:	TE-4-4-2003

Major Ions	Method	Units	Reporting Limit	Results
Calcium	EPA 200.7	mg/L	1.0	< 1.0
Magnesium	EPA 200.7	mg/L	1.0	< 1.0
Sodium	EPA 200.7	mg/L	1.0	< 1.0
Potassium	EPA 200.7	mg/L	1.0	< 1.0
Bicarbonate	SM 2320-B	mg/L	0.10	7.30
Sulfate	EPA 200.7	mg/L	1.0	< 1.0
Chloride	EPA 200.7	mg/L	1.0	2.1
Ammonium as N	SM 4500 NH_3-G	mg/L	0.05	< 0.05
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10
Non-Metals				
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10
pH	SM 4500-H-B	std. units	0.10	6.27
Trace Metals, dissolved				
Aluminum	EPA 200.8	mg/L	0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	< 0.01
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10
Radiometrics				
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0120
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2
Radium Error Estimate ±				-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0
Radium Error Estimate ±				-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2
Thorium Error Estimate ±				-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0
Lead Error Estimate ±				-
Gross Alpa-Ra & U	EPA 900.0	pCi/L	1.0	< 1.0
G. Alpha Error Estimate ±				-
Trace Organics				
Chloroform	EPA 624	µg/L	1.0	< 1.0

Quality Assurance Data		Target Range	
Anion	meq		0.21
Cation	meq		0.21
SM A/C Balance	%	-5 - +5	* -0.06
Calc TDS	mg/L		11.3
TDS A/C Balance	dec. %	0.80 - 1.20	* 0.89

* Balances inappropriate for near blank samples

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	624	624	624	624
LABORATORY ID:	C02060276-010	C02070393-010	C02100477-012	C03010389-010
SAMPLE DATE/TIME:	06/04/2002 09:00	07/09/2002 09:20	10/08/2002 11:30	01/07/2003 08:50
RECEIVED DATE/TIME:	06/10/2002 10:00	07/12/2002 10:00	10/14/2002 10:00	01/13/2003 10:00
REPORT DATE:	June 27, 2002	July 24, 2002	November 8, 2002	February 4, 2003
UNC SUBMITTAL #:	TE-9-6-2002	TE-10-7-2002	TE-12-10-2002	TE-1-1-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	720	713	659	733
Magnesium	EPA 200.7	mg/L	0.01	450	463	425	480
Sodium	EPA 200.7	mg/L	0.05	201	223	208	120
Potassium	EPA 200.7	mg/L	0.10	6.4	7.3	6.2	7.4
Bicarbonate	SM 2320-B	mg/L	0.10	1480	1500	1490	1490
Sulfate	EPA 200.7	mg/L	1.0	1830	2150	1810	2250
Chloride	EPA 200.7	mg/L	1.0	181	200	173	110
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.05	0.05	0.08	0.19
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	96.3	92.4	97.1	92.0
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5220	5300	5150	5210
pH	SM 4500-H-B	std. units	0.10	7.66	7.42	7.25	7.21
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.03	0.03	0.03	0.04
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0333	0.0360	0.0262	0.0348
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	0.3	< 0.2	< 0.2
Radium Error Estimate ±				-	0.2	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		74.4	81.6	73.9	81.0
Cation	meq		82.4	84.1	77.6	82.1
SM A/C Balance	%	-5 - +5	5.13	1.51	2.40	0.68
Calc TDS	mg/L		4555	4916	4456	4853
TDS A/C Balance	dec. %	0.80 - 1.20	1.15	1.08	1.16	1.07

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	624	624	624	624
LABORATORY ID:	C02070393-010	C02100477-012	C03010389-010	C03040535-011
SAMPLE DATE/TIME:	07/09/2002 09:20	10/08/2002 11:30	01/07/2003 08:50	04/08/2003 8:50
RECEIVED DATE/TIME:	07/12/2002 10:00	10/14/2002 10:00	01/13/2003 10:00	04/11/2003 10:00
REPORT DATE:	July 24, 2002	November 8, 2002	February 4, 2003	May 1, 2003
UNC SUBMITTAL #:	TE-10-7-2002	TE-12-10-2002	TE-1-1-2003	TE-3-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	713	659	733	685
Magnesium	EPA 200.7	mg/L	0.01	463	425	480	422
Sodium	EPA 200.7	mg/L	0.05	223	208	242	230
Potassium	EPA 200.7	mg/L	0.10	7.3	6.2	7.4	8.3
Bicarbonate	SM 2320-B	mg/L	0.10	1500	1490	1490	1450
Sulfate	EPA 200.7	mg/L	1.0	2150	1810	2250	1900
Chloride	EPA 200.7	mg/L	1.0	200	173	175	184
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.05	0.08	0.19	0.11
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	92.4	97.1	92.0	102
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5300	5150	5210	5250
pH	SM 4500-H-B	std. units	0.10	7.42	7.25	7.21	6.85
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.03	0.03	0.04	0.04
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0360	0.0262	0.0348	0.0336
Radium 226	EPA 903.0	pCi/L	0.2	0.3	< 0.2	< 0.2	0.5
Radium Error Estimate ±				0.2	-	-	0.2
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		81.6	73.9	82.8	75.8
Cation	meq		84.1	77.6	87.4	79.6
SM A/C Balance	%	-5 - +5	1.51	2.40	2.69	2.46
Calc TDS	mg/L		4916	4456	5040	4606
DS A/C Balance	dec. %	0.80 - 1.20	1.08	1.16	1.03	1.14

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	624 Duplicate	624 Duplicate	624 Duplicate	624 Duplicate
LABORATORY ID:	C02040226-011	C02060276-011	C02100477-013	C03010389-011
SAMPLE DATE/TIME:	04/02/2002 09:25	06/04/2002 09:30	10/08/2002 12:00	01/07/2003 09:15
RECEIVED DATE/TIME:	04/08/2002 10:30	06/10/2002 10:00	10/14/2002 10:00	01/13/2003 10:00
REPORT DATE:	April 27, 2002	June 27, 2002	November 8, 2002	February 4, 2003
UNC SUBMITTAL #:	TE-5-4-2002	TE-9-6-2002	TE-12-10-2002	TE-1-1-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	741	711	663	726
Magnesium	EPA 200.7	mg/L	0.01	459	444	427	476
Sodium	EPA 200.7	mg/L	0.05	220	208	207	120
Potassium	EPA 200.7	mg/L	0.10	8.0	6.0	6.1	7.8
Bicarbonate	SM 2320-B	mg/L	0.10	1500	1480	1480	1500
Sulfate	EPA 200.7	mg/L	1.0	2130	1850	1800	2220
Chloride	EPA 200.7	mg/L	1.0	206	174	167	118
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.05	0.08	0.06	0.15
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	95.7	92.1	96.6	90.0
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5210	5210	5160	5190
pH	SM 4500-H-B	std. units	0.10	7.48	7.68	7.40	7.24
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	< 0.03	0.03	0.02	0.04
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0338	0.0314	0.0265	0.0409
Radium 226	EPA 903.0	pCi/L	0.2	< 0.4	< 0.2	< 0.2	< 0.2
Radium Error Estimate ±				0.2	-	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±					-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.5	< 1.0	< 1.0	1.6
G. Alpha Error Estimate ±				1.0	-	-	1.0
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		81.6	74.3	73.4	80.6
Cation	meq		85.1	81.8	77.9	81.4
SM A/C Balance	%	-5 - +5	2.08	4.79	2.99	0.50
Calc TDS	mg/L		4938	4541	4438	4817
TDS A/C Balance	dec. %	0.80 - 1.20	1.06	1.15	1.16	1.08

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	GW-1	GW-1	GW-1	GW-1
LABORATORY ID:	C02070393-008	C02100477-011	C03010389-008	C03040535-009
SAMPLE DATE/TIME:	07/08/2002 14:40	10/08/2002 11:05	01/06/2003 14:00	04/07/2003 14:20
RECEIVED DATE/TIME:	07/12/2002 10:00	10/14/2002 10:00	01/13/2003 10:00	04/11/2003 10:00
REPORT DATE:	July 24, 2002	November 8, 2002	February 4, 2003	May 1, 2003
UNC SUBMITTAL #:	TE-10-7-2002	TE-10-12-2002	TE-1-1-2003	TE-3-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	753	708	768	704
Magnesium	EPA 200.7	mg/L	0.01	454	460	544	504
Sodium	EPA 200.7	mg/L	0.05	190	241	302	288
Potassium	EPA 200.7	mg/L	0.10	6.6	4.0	6.7	5.9
Bicarbonate	SM 2320-B	mg/L	0.10	1200	1300	1390	1360
Sulfate	EPA 200.7	mg/L	1.0	2500	2320	2620	2280
Chloride	EPA 200.7	mg/L	1.0	140	170	166	209
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.54	0.42	0.94	0.41
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	99.9	113	119	124
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5630	5850	5980	6050
pH	SM 4500-H-B	std. units	0.10	7.80	7.72	7.61	7.27
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.04	0.04	0.05	0.05
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.128	0.0930	0.116	0.0963
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	0.6	< 0.2	< 0.2
Radium Error Estimate ±				-	0.3	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn&U	EPA 900.1	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		82.8	82.5	90.5	84.5
Cation	meq		84.0	84.3	97.1	89.9
SM A/C Balance	%	-5 - +5	0.67	1.10	3.50	3.08
Calc TDS	mg/L		5087	5054	5630	5221
TDS A/C Balance	dec. %	0.80 - 1.20	1.11	1.16	1.06	1.16

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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	GW-1 DUPLICATE	GW-1 DUPLICATE	GW-1 DUPLICATE	GW-1 DUPLICATE
LABORATORY ID:	C01120222-010	C02010344-010	C02050336-010	C03040535-010
SAMPLE DATE/TIME:	12/04/2001 10:00	01/08/2002 10:40	05/06/2002 15:10	04/07/2003 14:50
RECEIVED DATE/TIME:	12/07/2001 10:00	01/11/2002 10:00	05/10/2002 10:00	04/11/2003 10:00
REPORT DATE:	December 29, 2001	February 4, 2002	June 4, 2002	May 1, 2003
UNC SUBMITTAL #:	TE-18-12-2001	TE-1-1-2002	TE-8-5-2002	TE-3-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	716	844	770	696
Magnesium	EPA 200.7	mg/L	0.01	351	401	409	495
Sodium	EPA 200.7	mg/L	0.05	219	176	248	291
Potassium	EPA 200.7	mg/L	0.10	3.9	6.8	5.6	5.7
Bicarbonate	SM 2320-B	mg/L	0.10	946	978	1100	1380
Sulfate	EPA 200.7	mg/L	1.0	2250	2660	2440	2250
Chloride	EPA 200.7	mg/L	1.0	137	159	158	206
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.46	0.51	0.46	0.40
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	96.0	81.5	93.2	134
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5260	5260	5470	6000
pH	SM 4500-H-B	std. units	0.10	7.40	7.30	7.67	7.24
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	0.03	0.04	0.04	0.05
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics							
Uranium, dissolved	EPA 200.8	mg/L	0.0003	0.0950	0.102	0.102	0.110
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	0.4
Radium Error Estimate ±				-	-	-	0.2
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha	EPA 900.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
G. Alpha Error Estimate ±				-	-	-	-
Trace Organics							
Chloroform	EPA 8260	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		73.1	81.7	80.0	84.9
Cation	meq		74.7	83.5	83.5	88.9
SM A/C Balance	%	-5 - +5	1.09	1.05	2.18	2.31
Calc TDS	mg/L		4576	5098	4994	5228
TDS A/C Balance	dec. %	0.80 - 1.20	1.15	1.03	1.10	1.15

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	EPA-2	EPA-2	EPA-2	EPA-2
LABORATORY ID:	C02070704-002	C02100686-002	C03010599-002	C03040793-006
SAMPLE DATE/TIME:	07/16/2002 11:15	10/15/2002 09:20	01/14/2003 08:50	04/14/2003 09:50
DATE RECEIVED:	07/22/2002 10:00	10/18/2002 10:00	01/20/2003 10:00	04/18/2003 10:00
REPORT DATE:	August 13, 2002	November 8, 2002	February 11, 2003	May 12, 2003
QUARTER REPRESENTED:	Third 2002	Fourth 2002	First 2003	Second 2003
UNC SUBMITTAL #:	TE-11-7-2002	TE-13-10-2002	TE-2-1-2003	TE-4-4-2003

4/15/03

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	1.0	352	398	345	328
Magnesium	EPA 200.7	mg/L	1.0	161	178	154	141
Sodium	EPA 200.7	mg/L	1.0	188	189	172	194
Potassium	EPA 200.7	mg/L	1.0	6.0	5.9	6.4	9.0
Bicarbonate	SM 2320-B	mg/L	0.10	448	432	409	448
Sulfate	EPA 200.7	mg/L	1.0	1510	1700	1410	1550
Chloride	EPA 200.7	mg/L	1.0	24.6	21.0	19.6	23.7
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.60	0.50	0.59	0.60
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	2760	2630	2700	2740
pH	SM 4500-H-B	std. units	0.10	7.54	7.72	7.62	7.51
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001	0.002	0.002	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.7	mg/L	0.01	1.28	1.12	1.23	1.28
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics, dissolved							
Uranium	EPA 200.8	mg/L	0.0003	< 0.0003	0.0009	0.0014	0.0010
Radium 226	EPA 903.0	pCi/L	0.2	1.7	1.7	3.0	1.8
Radium Error Estimate ±				0.2	0.3	0.4	0.3
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	3.0	< 1.0	10.1
Radium Error Estimate ±				-	1.0	-	2.1
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn & U	EPA 900.0	pCi/L	1.0	1.7	< 1.0	2.2	2.1
G. Alpha Error Estimate ±				1.0	-	1.0	1.0
Trace Organics							
Chloroform	EPA 601	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		39.5	43.1	36.6	40.3
Cation	meq		39.5	43.2	37.8	36.9
SM A/C Balance	%	-5 - +5	-0.06	0.12	1.61	-4.38
lc TDS	mg/L		2468	2710	2314	2472
DS A/C Balance	dec. %	0.80 - 1.20	1.12	0.97	1.17	1.11

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 1 MONITOR WELLS

WELL ID:	EPA-2 DUPLICATE	EPA-2 DUPLICATE	EPA-2 DUPLICATE	EPA-2 DUPLICATE
LABORATORY ID:	C02070704-003	C02100686-003	C03010599-003	C03040793-007
SAMPLE DATE/TIME:	07/16/2002 11:50	10/15/2002 10:00	01/14/2003 09:20	04/15/2003 10:10
DATE RECEIVED:	07/22/2002 10:00	10/18/2002 10:00	01/20/2003 10:00	04/18/2003 10:00
REPORT DATE:	May 7, 2002	November 8, 2002	February 11, 2003	May 12, 2003
QUARTER REPRESENTED:	Third 2002	Fourth 2002	First 2003	Second 2003
UNC SUBMITTAL #:	TE-11-7-2002	TE-13-10-2002	TE-2-1-2003	TE-4-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	1.0	352	400	380	346
Magnesium	EPA 200.7	mg/L	1.0	160	180	175	163
Sodium	EPA 200.7	mg/L	1.0	190	187	162	192
Potassium	EPA 200.7	mg/L	1.0	7.60	6.10	6.60	8.80
Bicarbonate	SM 2320-B	mg/L	0.10	332	337	341	333
Sulfate	EPA 200.7	mg/L	1.0	1540	1750	1590	1520
Chloride	EPA 200.7	mg/L	1.0	25.9	15.2	23.5	23.3
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	1.30	0.62	0.69	0.60
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	2770	2650	2710	2730
pH	SM 4500-H-B	std. units	0.10	7.37	7.48	7.38	7.37
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-C	mg/L	0.001	< 0.001	0.001	< 0.001	< 0.001
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.7	mg/L	0.01	1.26	1.29	1.23	1.25
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics, dissolved							
Uranium	EPA 200.8	mg/L	0.0003	< 0.0003	0.0009	0.0013	0.0010
Radium 226	EPA 903.0	pCi/L	0.2	0.9	1.5	1.9	1.3
Radium Error Estimate ±				0.2	0.3	0.3	0.3
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	10.4
Radium Error Estimate ±				-	-	-	2.1
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn & U	EPA 900.1	pCi/L	1.0	1.8	< 1.0	3.0	2.3
G. Alpha Error Estimate ±				1.0	-	1.0	1.0
Trace Organics							
Chloroform		µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Quality Assurance Data			**Target Range**				
Anion		meq		38.3	42.4	39.4	37.8
Cation		meq		39.6	43.4	40.9	39.6
SM A/C Balance		%	-5 - +5	1.66	1.15	1.90	2.30
Calc TDS		mg/L		2445	2709	2510	2422
TDS A/C Balance		dec. %	0.80 - 1.20	1.13	0.98	1.08	1.13

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 3 MONITOR WELLS

WELL ID:	711	711	711	711
LABORATORY ID:	C02070696-009	C02100685-006	C03010598-005	C03040794-005
SAMPLE DATE/TIME:	07/16/2002 09:30	10/14/2002 13:40	01/13/2003 11:15	04/15/2003 12:40
DATE RECEIVED:	07/22/2002 10:00	10/18/2002 10:00	01/20/2003 10:00	04/18/2003 10:00
REPORT DATE:	August 13, 2002	November 8, 2002	February 11, 2003	May 12, 2003
QUARTER REPRESENTED:	Third 2002	Fourth 2002	First 2003	Second 2003
UNC SUBMITTAL #:	TE-11-7-2002	TE-12-10-2002	TE-2-1-2003	TE-4-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	1.0	569	516	509	482
Magnesium	EPA 200.7	mg/L	1.0	580	543	558	532
Sodium	EPA 200.7	mg/L	1.0	89.6	104	72.7	110
Potassium	EPA 200.7	mg/L	1.0	10.3	11.0	8.40	13.8
Bicarbonate	SM 2320-B	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Sulfate	EPA 200.7	mg/L	1.0	3990	3730	3300	3540
Chloride	EPA 200.7	mg/L	1.0	11.3	16.4	7.9	17.5
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	1.26	1.24	1.40	1.40
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10	< 0.10	< 0.10	0.20
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5400	4720	5300	5430
pH	SM 4500-H-B	std. units	0.10	3.10	3.01	3.00	2.85
Trace Metals, dissolved							
Aluminum	EPA 200.8	mg/L	0.10	1.40	1.00	1.10	1.00
Arsenic III	SM 3114-C	mg/L	0.001	0.023	0.027	0.027	0.025
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.8	mg/L	0.01	0.38	0.41	0.44	0.48
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.8	mg/L	0.01	6.94	7.73	7.50	8.56
Molybdenum	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	0.10	0.10
Nickel	EPA 200.8	mg/L	0.05	0.35	0.39	0.36	0.42
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics, dissolved							
Uranium	EPA 200.8	mg/L	0.0003	0.0462	0.0454	0.0450	0.0420
Radium 226	EPA 903.0	pCi/L	0.2	9.9	8.9	8.8	11.2
Radium Error Estimate ±				0.9	1.2	0.6	0.8
Radium 228	EPA 904.0	pCi/L	1.0	32.5	14.2	7.4	12.9
Radium Error Estimate ±				3.0	1.3	1.3	2.1
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn & U	EPA 900.0	pCi/L	1.0	12.6	14.4	10.4	18.0
G. Alpha Error Estimate ±				2.1	1.3	1.0	1.2
Trace Organics							
Chloroform	EPA 624	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		83.5	78.2	69.0	74.3
Cation	meq		81.4	76.4	75.8	74.1
SM A/C Balance	%	-5 - +5	-1.24	-1.17	4.73	-0.08
Calc TDS	mg/L		5259	4930	4466	4707
TDS A/C Balance	dec. %	0.80 - 1.20	1.03	0.96	1.19	1.15

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UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: ZONE 3 MONITOR WELLS

WELL ID:	711-DUPLICATE	711-DUPLICATE	711-DUPLICATE	711-DUPLICATE
LABORATORY ID:	C02070696-010	C02100685-007	C03010598-006	C03040794-006
SAMPLE DATE/TIME:	07/16/2002 10:05	10/14/2002 14:00	01/13/2003 11:35	04/15/2003 13:05
	07/22/2002 10:00	10/18/2002 10:00	01/20/2003 10:00	04/18/2003 10:00
REPORT DATE:	August 13, 2002	November 8, 2002	February 11, 2003	May 12, 2003
QUARTER REPRESENTED:	Third 2002	Fourth 2002	First 2003	Second 2003
UNC SUBMITTAL #:	TE-11-7-2002	TE-12-10-2002	TE-2-1-2003	TE-4-4-2003

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	1.0	570	579	495	494
Magnesium	EPA 200.7	mg/L	1.0	580	606	541	544
Sodium	EPA 200.7	mg/L	1.0	89.4	114	90.6	105
Potassium	EPA 200.7	mg/L	1.0	9.70	12.3	9.80	13.1
Bicarbonate	SM 2320-B	mg/L	0.10	7.30	7.90	4.90	3.00
Sulfate	EPA 200.7	mg/L	1.0	3990	4170	3410	3620
Chloride	EPA 200.7	mg/L	1.0	10.1	23.8	10.6	20.4
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	1.37	1.39	1.32	1.44
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5450	5130	5390	5460
pH	SM 4500-H-B	std. units	0.10	4.78	5.32	4.98	4.86
Trace Metals, dissolved							
Aluminum	EPA 200.7	mg/L	0.10	1.20	1.10	1.00	1.10
Arsenic III	SM 3114-C	mg/L	0.001	0.029	0.031	0.029	0.026
Beryllium	EPA 200.8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Cobalt	EPA 200.7	mg/L	0.01	0.36	0.43	0.44	0.42
Lead	EPA 200.8	mg/L	0.05	< 0.05	< 0.05	< 0.05	< 0.05
Manganese	EPA 200.7	mg/L	0.01	6.64	8.46	7.58	7.98
Molybdenum	EPA 200.8	mg/L	0.10	0.10	0.10	0.10	0.10
Nickel	EPA 200.7	mg/L	0.05	0.32	0.41	0.35	0.37
Selenium IV	SM 3114-C	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001
Vanadium	EPA 200.8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10
Radiometrics, dissolved							
Uranium	EPA 200.8	mg/L	0.0003	0.0421	0.0494	0.0434	0.0433
Radium 226	EPA 903.0	pCi/L	0.2	10.0	7.8	10.1	9.7
Radium Error Estimate ±				0.9	0.6	0.7	0.7
Radium 228	EPA 904.0	pCi/L	1.0	26.2	13.1	5.6	15.8
Radium Error Estimate ±				2.8	1.2	1.3	2.1
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha-Rn & U	EPA 900.0	pCi/L	1.0	10.8	10.6	13.0	20.9
G. Alpha Error Estimate ±				2.1	1.2	1.7	1.3
Trace Organics							
Chloroform	EPA 624	µg/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		83.5	87.7	71.4	76.0
Cation	meq		81.4	85.3	74.5	75.5
SM A/C Balance	%	-5 - +5	-1.28	-1.39	2.13	-0.38
Calc TDS	mg/L		5262	5520	4569	4808
TDS A/C Balance	dec. %	0.80 - 1.20	1.04	0.93	1.18	1.14

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APPENDIX - C

QUARTERLY

CHAIN OF CUSTODY REPORT

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-1-1-2003 (PG. 1 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
509-D	1-6-03	0915		✓ DHB	✓ mc	✓ mc	✓ DHB			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0950								K, Mg, Mn, Na, NH_3, Ni,
803		1020								NO_3, Pb, Pb-210, pH, Se,
808		1050								SO_4, TDS, Th-230, U, V,
802		1115								Chloroform, Gross
801		1300								Alpha (-) U & Rn,
GW-2		1330								Combined Ra-226 & Ra-228, Al,
GW-1		1400								Co, Mo
632	↓	1435						NA		
624	1-7-03	0850								
624 DUPLICATE		0915								
EPA-28		0945								
GW-3		1630								
EPA-25		1115								
627	↓	1310		↓	↓	↓	↓			

Sampled by: [signature]
Dispatched by: [signature]
Carrier: UPS
ICED COOLER
Method of Shipment

Received by Mac Chaddy Jr.
01/08/03 2:30P.M.
Date Time

1-6-03 @ 1200 & 1520
1-7-03 @ 1200 & 1530
Date Time
[signature]
Lab Receipt Signature
1/13/03 10:00
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
1-8-03
Date

C03010389

PAGE NO.

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-1-1-2003 (PG. 2 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
613	1-7-03	1355		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
517	1-7-03	1435		↓	↓	↓	↓			K, Mg, Mn, Na, NH_3, Ni,
EPA-14	1-7-03	1505		↓	↓	↓	↓			NO_3, Pb, Pb-210, pH, Se,
614	1-8-03	0840		↓	↓	↓	↓			SO_4, TDS, Th-230, U, V,
515-A	1-8-03	0925		↓	↓	↓	↓			Chloroform, Gross
604	1-8-03	1000		↓	↓	↓	↓			Alpha (-) U & Rn,
FIELD BLANK	1-8-03	1045		↓	↓	↓	↓			Combined Ra-226 & Ra-228, Al,
										Co, Mo
								N/A		

Sampled by: [signature]
Dispatched by: [signature]
Carrier: UPS
4 ICED COOLER
Method of Shipment

Received by Max Chandler Jr.
1/08/03 2:30 P.M.
Date Time

1-7-03 @ 1530
1-8-03 @ 1050
Date Time
[signature]
Lab Receipt Signature
1/13/03 10:00
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
1-8-03
Date

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received: 1/13/2003 10:00:00

Work Order Number C03010389

Received by js

Checklist completed by [signature] 1/13/03 (Signature / Date)

Reviewed by _____ Initials | Date

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☐	No ☑	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	4 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:
Samples taken 1/6/03 for TDS were received out of hold.

Corrective Action _____

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ANALYTICAL SUMMARY REPORT

'ebruary 04, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03010389 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories Inc. received the following 15 samples from United Nuclear Corp on 1/13/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03010389-001	509-D	01/06/03 09:15	01/13/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03010389-002	EPA-23	01/06/03 09:50	01/13/03	Aqueous	Same As Above
C03010389-003	803	01/06/03 10:20	01/13/03	Aqueous	Same As Above
C03010389-004	808	01/06/03 10:50	01/13/03	Aqueous	Same As Above
C03010389-005	802	01/06/03 11:15	01/13/03	Aqueous	Same As Above
C03010389-006	801	01/06/03 13:00	01/13/03	Aqueous	Same As Above
C03010389-007	GW-2	01/06/03 13:30	01/13/03	Aqueous	Same As Above
C03010389-008	GW-1	01/06/03 14:00	01/13/03	Aqueous	Same As Above
C03010389-009	632	01/06/03 14:35	01/13/03	Aqueous	Same As Above
C03010389-010	624	01/07/03 08:50	01/13/03	Aqueous	Same As Above
C03010389-011	624 Duplicate	01/07/03 09:15	01/13/03	Aqueous	Same As Above
C03010389-012	EPA-28	01/07/03 09:45	01/13/03	Aqueous	Same As Above
C03010389-013	GW-3	01/07/03 10:30	01/13/03	Aqueous	Same As Above
C03010389-014	EPA-25	01/07/03 11:15	01/13/03	Aqueous	Same As Above
C03010389-015	627	01/07/03 13:10	01/13/03	Aqueous	Same As Above

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There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

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

Date: *04-Feb-03*

CLIENT: United Nuclear Corp
Project: Alluvium
Sample Delivery Group: C03010389

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name **UNTD-NCLR-CRP** Date and Time Received: **01/13/2003 10:00:00**

Work Order Number **C03010390** Received by js

Checklist completed by [signature] 1/13/03 (Signature / Date) Reviewed by _____ (Initials / Date)

Carrier name UPS

	Yes	No	
Shipping container/cooler in good condition?	☑	☐	Not Present ☐
Custody seals intact on shipping container/cooler?	☐	☐	Not Present ☑
Custody seals intact on sample bottles?	☐	☐	Not Present ☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	0 °C
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	☑	☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

TRACKING NO. PAGE NO.

[illegible]90R0015

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ANALYTICAL SUMMARY REPORT

February 04, 2003

United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03010390 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories Inc. received the following 4 samples from United Nuclear Corp on 1/13/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03010390-001	614	01/08/03 08:40	01/13/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03010390-002	515-A	01/08/03 09:25	01/13/03	Aqueous	Same As Above
C03010390-003	604	01/08/03 10:00	01/13/03	Aqueous	Same As Above
C03010390-004	Field Blank	01/08/03 10:45	01/13/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.

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Date: *04-Feb-03*

CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C03010390

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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Energy Laboratories Inc.

Sample Receipt Checklist

Client Name **UNTD-NCLR-CRP** Date and Time Received: **01/13/2003 10:00:00**

Work Order Number **C03010393** Received by js

Checklist completed by Sara Hawn 1/13/03 (Signature / Date) Reviewed by _____ (Initials / Date)

Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

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010393R0016

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ANALYTICAL SUMMARY REPORT

February 05, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03010393 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories Inc. received the following 3 samples from United Nuclear Corp on 1/13/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03010393-001	613	01/07/03 13:55	01/13/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03010393-002	517	01/07/03 14:35	01/13/03	Aqueous	Same As Above
C03010393-003	EPA-14	01/07/03 15:05	01/13/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.
010393R0015

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Date: *05-Feb-03*

CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C03010393

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-2-1-2003

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
504-B	1-13-03	0900		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
719		0940								K, Mg, Mn, Na, NH_3, Ni,
420		1010								NO_3, Pb, Pb-210, pH, Se,
717		1040								SO_4, TDS, Th-230, U, V,
711		1115								Chloroform, Gross
711 DUPLICATE		1135								Alpha (-) U & Rn,
EPA-13		1310								Combined Ra-226 & Ra-228, Al,
708		1345								Co, Mo
TWQ-142		1426						N A		
EPA-2	1-14-03	0850								
EPA-2 DUPLICATE		0920								
EPA-7		1015								
EPA-5		1045								
EPA-4		1130								
NBL-1	1-15-03	1000								
FIELD BLANK	1-15-03	1055								

Sampled by: Luke J. Bryant
Dispatched by: Doug R. Brown
Carrier: UPS
4 ICED COOLER
Method of Shipment

Received by Mary Chandler Jr.
1-15-03, 12:46 P.M.
Date Time

1-13 & 1-14-03 @ 1200 & 1530
Date: 1-15-03 @ 1110 Time
Lab Receipt Signature
1/20/03 1000
Date Time

The above analysis to be performed is authorized by:
Signature
1-15-2003
Date

C03010598

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received: 1/20/2003 10:00:00

Work Order Number C03010598

Received by sh

Checklist completed by [signature] 1/20/03 (Signature / Date)

Reviewed by _____ Initials | Date

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

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ANALYTICAL SUMMARY REPORT

February 11, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03010598 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories Inc. received the following 9 samples from United Nuclear Corp on 1/20/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03010598-001	504-B	01/13/03 09:00	01/20/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03010598-002	719	01/13/03 09:40	01/20/03	Aqueous	Same As Above
C03010598-003	420	01/13/03 10:10	01/20/03	Aqueous	Same As Above
C03010598-004	717	01/13/03 10:40	01/20/03	Aqueous	Same As Above
C03010598-005	711	01/13/03 11:15	01/20/03	Aqueous	Same As Above
C03010598-006	711 Duplicate	01/13/03 11:35	01/20/03	Aqueous	Same As Above
C03010598-007	EPA-13	01/13/03 13:10	01/20/03	Aqueous	Same As Above
C03010598-008	708	01/13/03 13:45	01/20/03	Aqueous	Same As Above
C03010598-009	NBL-1	01/15/03 10:00	01/20/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.

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Date: *11-Feb-03*

CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C03010598

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

SUBCONTRACTING ANALYSIS
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SAMPLE TEMPERATURE COMPLIANCE: 4°C (±2°C)
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Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received: 1/20/2003 10:00:00

Work Order Number C03010599

Received by sh

Checklist completed by [signature] 1/20/03 (Signature / Date)

Reviewed by _____ (Initials / Date)

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	0 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

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010599R0024

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ANALYTICAL SUMMARY REPORT

February 24, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03010599 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories Inc. received the following 7 samples from United Nuclear Corp on 1/20/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03010599-001	TWQ-142	01/13/03 14:26	01/20/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03010599-002	EPA-2	01/14/03 08:50	01/20/03	Aqueous	Same As Above
C03010599-003	EPA-2 Duplicate	01/14/03 09:20	01/20/03	Aqueous	Same As Above
C03010599-004	EPA-7	01/14/03 10:15	01/20/03	Aqueous	Same As Above
C03010599-005	EPA-5	01/14/03 10:45	01/20/03	Aqueous	Same As Above
C03010599-006	EPA-4	01/14/03 11:30	01/20/03	Aqueous	Same As Above
C03010599-007	Field Blank	01/15/03 10:55	01/20/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.
010599R0025

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

Date: *24-Feb-03*

CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C03010599

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-3-4-2003 (PG. 1 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
509-D	4-7-03	0900		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0940								K, Mg, Mn, Na, NH_3, Ni,
B03		1010								NO_3, Pb, Pb-210, pH, Se,
B08		1040								SO_4, TDS, Th-230, U, V,
B02		1105								Chloroform, Gross
632		1135								Alpha (-) U & Rn,
B01		1315								Combined Ra-226 & Ra-228, Al,
GW-2		1345								Co, Mo
GW-1		1420						NA		
GW-1 DUPLICATE		1450								
624	4-8-03	0850								
EPA-28		0920								
GW-3		1010								
EPA-25		1055								
627		1140								

Sampled by: Steve H Boyd
Dispatched by: Max Chavelly Jr.
Carrier: UPS
ICED COOLER
Method of Shipment

Received by Max Chavelly Jr.
4-9-03 1400
Date Time

4-7-03 @ 1200 & 1530
4-8-03 @ 1200
Date Time

Lab Receipt Signature
4/11/03 10:00
Date Time

The above analysis to be performed is authorized by:
Signature
4-9-03
Date

RECORD NO. PAGE NO
0405350013

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-3-4-2003 (PG. 2 OF 2)

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
613	4-8-03	1320		✓ JAB	✓ m	✓ m	✓ JAB			As, Be, Ca, Cd, Cl, HCO_3,
517	↓	1355		↓	↓	↓	↓			K, Mg, Mn, Na, NH_3, Ni,
EPA-14	↓	1425		↓	↓	↓	↓			NO_3, Pb, Pb-210, pH, Se,
717	↓	1455		↓	↓	↓	↓			SO_4, TDS, Th-230, U, V,
614	4-9-03	0900		↓	↓	↓	↓			Chloroform, Gross
515-A	↓	0945		↓	↓	↓	↓			Alpha (-) U & Rn,
FIELD BLANK	↓	1040		↓	↓	↓	↓			Combined Ra-226 & Ra-228, Al,
										Co, Mo
								N A		

Sampled by: [signature]
Dispatched by: [signature]
Carrier: UPS
Method of Shipment: ICED COOLER

Received by [signature]
4-9-03 1800
Date Time

4-8-03 @ 1530
4-9-03 @ 1100
Date Time

[signature]
Lab Receipt Signature
4/11/03 10:00
Date Time

The above analysis to be performed is authorized by:
[signature]
Signature
4-9-03
Date

CoC SEH 4/11/03

RACMS NO. PAGE NO
0105350017

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name **UNTD-NCLR-CRP** Date and Time Received: **4/11/2003 10:00:00**

Work Order Number **C03040535** Received by js

Checklist completed by Signature 4/11/03 Date Reviewed by Initials Date

Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	6 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

TRACKING NO. PAGE NO

040535R001S

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

ANALYTICAL SUMMARY REPORT

May 13, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03040535 Quote ID: C129 - Quarterly Long List

Project Name: Alluvium

Energy Laboratories Inc. received the following 15 samples from United Nuclear Corp on 4/11/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03040535-001	509-D	04/07/03 9:00	04/11/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03040535-002	EPA-23	04/07/03 9:40	04/11/03	Aqueous	Same As Above
C03040535-003	803	04/07/03 10:10	04/11/03	Aqueous	Same As Above
C03040535-004	808	04/07/03 10:40	04/11/03	Aqueous	Same As Above
C03040535-005	802	04/07/03 11:05	04/11/03	Aqueous	Same As Above
C03040535-006	632	04/07/03 11:35	04/11/03	Aqueous	Same As Above
C03040535-007	801	04/07/03 13:15	04/11/03	Aqueous	Same As Above
C03040535-008	GW-2	04/07/03 13:45	04/11/03	Aqueous	Same As Above
C03040535-009	GW-1	04/07/03 14:20	04/11/03	Aqueous	Same As Above
C03040535-010	GW-1 Duplicate	04/07/03 14:50	04/11/03	Aqueous	Same As Above
C03040535-011	624	04/08/03 8:50	04/11/03	Aqueous	Same As Above
C03040535-012	EPA-28	04/08/03 9:20	04/11/03	Aqueous	Same As Above
C03040535-013	GW-3	04/08/03 10:10	04/11/03	Aqueous	Same As Above
C03040535-014	EPA-25	04/08/03 10:55	04/11/03	Aqueous	Same As Above
C03040535-015	627	04/08/03 11:40	04/11/03	Aqueous	Same As Above

TRACKING NO. PAGE N
040535R0021

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There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO

040535R0021

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Date: *13-May-03*

CLIENT: United Nuclear Corp
Project: Alluvium
Sample Delivery Group: C03040535

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received: 4/11/2003 10:00:00

Work Order Number C03040536

Received by js

Checklist completed by Jay Scott 4/11/03
Signature | Date

Reviewed by _____
Initials | Date

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	6 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

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040536R0008

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ANALYTICAL SUMMARY REPORT

May 13, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03040536 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories Inc. received the following 4 samples from United Nuclear Corp on 4/11/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03040536-001	613	04/08/03 13:20	04/11/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03040536-002	517	04/08/03 13:55	04/11/03	Aqueous	Same As Above
C03040536-003	EPA-14	04/08/03 14:25	04/11/03	Aqueous	Same As Above
C03040536-004	717	04/08/03 14:55	04/11/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.
040536R0001

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Date: *13-May-03*

CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C03040536

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received: 4/11/2003 10:00:00

Work Order Number C03040537

Received by js

Checklist completed by Signature 4/11/03 Date

Reviewed by Initials Date

Carrier name: UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	6 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	Not Applicable ☐

Adjusted? _____ *Checked by* _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

TRACKING NO. PAGE NI

060537R000

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ANALYTICAL SUMMARY REPORT

May 13, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03040537 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories Inc. received the following 3 samples from United Nuclear Corp on 4/11/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03040537-001	614	04/09/03 9:00	04/11/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03040537-002	515-A	04/09/03 9:45	04/11/03	Aqueous	Same As Above
C03040537-003	Field Blank	04/09/03 10:40	04/11/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE 1
040537R000

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Date: *13-May-03*

CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C03040537

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

CO30407.3

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE- 4-4-2003

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain		HNO_3		H_2SO_4		$Na_2S_2O_3$		NaOH	Preserved By	Analysis Required (For all samples listed)
604	4-14-03	0900		✓	✓	✓	✓	✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
EPA-7		1000												K, Mg, Mn, Na, NH_3, Ni,
EPA-5		1040												NO_3, Pb, Pb-210, pH, Se,
EPA-4		1125												SO_4, TDS, Th-230, U, V,
TWQ-142		1330												Chloroform, Gross
NBL-1		1430												Alpha (-) U & Rn,
504-B		1500												Combined Ra-226 & Ra-228, Al,
719	4-15-03	0845												Co, Mo
420		0915										NA		
EPA-2		0950												
EPA-2 DUPLICATE		1010												
711		1240												
711 DUPLICATE		1305												
EPA-13		1330												
708		1410												
FIELD BLANK		1450												

Sampled by: Max Chindly Jr.
Dispatched by: [illegible]
Carrier: UPS
3 ICED COOLER
Method of Shipment

Received by Max Chindly Jr.
April 16, 2003 Date
1:50 P.M. Time

4-14-03 & 4-15-03 @ 1200 & 1530
Date Time
Lab Receipt Signature
4/16/03 1000
Date Time

The above analysis to be performed is authorized by:
Signature
4-16-2003
Date

TRACKING NO. PAGE NO.

04C7793R0000

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name **UNTD-NCLR-CRP** Date and Time Received: **4/18/2003 10:00:00**

Work Order Number **C03040793** Received by sh

Checklist completed by [signature] 4/18/03 (Signature / Date) Reviewed by _____ (Initials / Date)

Carrier name UPS

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

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action _____

TRACKING NO. PAGE NO

040793R001

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ANALYTICAL SUMMARY REPORT

May 12, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03040793 Quote ID: C129 - Quarterly Long List

Project Name: Zone 1

Energy Laboratories Inc. received the following 8 samples from United Nuclear Corp on 4/18/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03040793-001	604	04/14/03 9:00	04/18/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03040793-002	EPA-7	04/14/03 10:00	04/18/03	Aqueous	Same As Above
C03040793-003	EPA-5	04/14/03 10:40	04/18/03	Aqueous	Same As Above
C03040793-004	EPA-4	04/14/03 11:25	04/18/03	Aqueous	Same As Above
C03040793-005	TWQ-142	04/14/03 13:30	04/18/03	Aqueous	Same As Above
C03040793-006	EPA-2	04/15/03 9:50	04/18/03	Aqueous	Same As Above
C03040793-007	EPA-2 Duplicate	04/15/03 10:10	04/18/03	Aqueous	Same As Above
C03040793-008	Field Blank	04/15/03 14:50	04/18/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO

040793R0012

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Date: *12-May-03*

CLIENT: United Nuclear Corp
Project: Zone 1
Sample Delivery Group: C03040793

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name **UNTD-NCLR-CRP** Date and Time Received: **4/18/2003 10:00:00**

Work Order Number **C03040794** Received by sh

Checklist completed by Signature 4/18/03 Date Reviewed by Initials Date

Carrier name UPS

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

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments:

Corrective Action

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040794R001

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ANALYTICAL SUMMARY REPORT

May 12, 2003

Larry Bush
United Nuclear Corp
PO Box 3077
Gallup, NM 87305

Workorder No.: C03040794 Quote ID: C129 - Quarterly Long List

Project Name: Zone 3

Energy Laboratories Inc. received the following 8 samples from United Nuclear Corp on 4/18/2003 for analysis.

Sample ID	Client Sample ID	Collect Date	Receive Date	Matrix	Test
C03040794-001	NBL-1	04/14/03 14:30	04/18/03	Aqueous	Alkalinity QA Calculations Arsenic-III, Dissolved Selenium-IV, Dissolved Metals by ICP, Dissolved Metals by ICP-MS, Dissolved Nitrogen, Ammonia Nitrogen, Nitrate + Nitrite Gross Alpha minus Rn222 and Uranium Lead 210, Dissolved Radium 226, Dissolved Radium 228, Dissolved Thorium, Isotopic Solids, Total Dissolved E624 Purgeable Organics
C03040794-002	504-B	04/14/03 15:00	04/18/03	Aqueous	Same As Above
C03040794-003	719	04/15/03 8:45	04/18/03	Aqueous	Same As Above
C03040794-004	420	04/15/03 9:15	04/18/03	Aqueous	Same As Above
C03040794-005	711	04/15/03 12:40	04/18/03	Aqueous	Same As Above
C03040794-006	711 Duplicate	04/15/03 13:05	04/18/03	Aqueous	Same As Above
C03040794-007	EPA-13	04/15/03 13:30	04/18/03	Aqueous	Same As Above
C03040794-008	708	04/15/03 14:10	04/18/03	Aqueous	Same As Above

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative or Report.

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

Report Approved By:

TRACKING NO. PAGE NO.
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Date: *12-May-03*

CLIENT: United Nuclear Corp
Project: Zone 3
Sample Delivery Group: C03040794

CASE NARRATIVE

THIS IS THE FINAL PAGE OF THE LABORATORY ANALYTICAL REPORT

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

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

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

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

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

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

APPENDIX - D

QUARTERLY

LABORATORY QUALITY CONTROL AND

PERFORMANCE REPORT

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030113A-SLDS-TDS-W	
Sample ID: C03010359-004BMS	Matrix Spike							01/13/03 12:59	
Solids, Total Dissolved TDS @ 180 C	2660	mg/L	10.0	101	90	110			
Sample ID: C03010359-004BMSD	Matrix Spike Duplicate							01/13/03 13:00	
Solids, Total Dissolved TDS @ 180 C	2630	mg/L	10.0	99.9	90	110	1.1	10	
Sample ID: C03010359-011BMS	Matrix Spike							01/13/03 13:48	
Solids, Total Dissolved TDS @ 180 C	2240	mg/L	10.0	101	90	110			
Sample ID: C03010359-011BMSD	Matrix Spike Duplicate							01/13/03 13:48	
Solids, Total Dissolved TDS @ 180 C	2260	mg/L	10.0	102	90	110	0.8	10	
Sample ID: C03010389-011CMS	Matrix Spike							01/13/03 15:52	
Solids, Total Dissolved TDS @ 180 C	8530	mg/L	10.0	100	90	110			
Sample ID: C03010389-011CMSD	Matrix Spike Duplicate							01/13/03 15:52	
Solids, Total Dissolved TDS @ 180 C	8510	mg/L	10.0	99.7	90	110	0.2	10	
Method: A2540 C								Batch: 030114A-SLDS-TDS-W	
Sample ID: C03010393-002CMS	Matrix Spike							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6960	mg/L	10.0	99.5	90	110			
Sample ID: C03010393-002CMSD	Matrix Spike Duplicate							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6940	mg/L	10.0	98.7	90	110	0.3	10	
Sample ID: C03010393-003CMS	Matrix Spike							01/14/03 14:54	
Solids, Total Dissolved TDS @ 180 C	7010	mg/L	10.0	100	90	110			
Sample ID: C03010393-003CMSD	Matrix Spike Duplicate							01/14/03 14:55	
Solids, Total Dissolved TDS @ 180 C	7040	mg/L	10.0	102	90	110	0.4	10	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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010389R0016

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte		Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method:	**A3114 B**									Batch: R18017
Sample ID:	**C03010389-010A**	Matrix Spike								01/14/03 12:22
Arsenic-III		0.0499	mg/L	0.00100	99.8	85	115			
Sample ID:	**C03010389-010A**	Matrix Spike Duplicate								01/14/03 12:24
Arsenic-III		0.0492	mg/L	0.00100	98.4	85	115	1.4	10	
Sample ID:	**C03010393-001A**	Matrix Spike								01/14/03 13:03
Arsenic-III		0.0507	mg/L	0.00100	100	85	115			
Sample ID:	**C03010393-001A**	Matrix Spike Duplicate								01/14/03 13:05
Arsenic-III		0.0514	mg/L	0.00100	102	85	115	1.4	10	
Sample ID:	**C03010393-003A**	Matrix Spike								01/14/03 13:25
Arsenic-III		0.0529	mg/L	0.00100	106	85	115			
Sample ID:	**C03010393-003A**	Matrix Spike Duplicate								01/14/03 13:27
Arsenic-III		0.0531	mg/L	0.00100	106	85	115	0.4	10	
Method:	**A3114 B**									Batch: R18066
Sample ID:	**C03010389-010A**	Matrix Spike								01/15/03 14:57
Selenium-IV		0.0475	mg/L	0.00100	95	85	115			
Sample ID:	**C03010389-010A**	Matrix Spike Duplicate								01/15/03 15:00
Selenium-IV		0.0482	mg/L	0.00100	96.4	85	115	1.5	10	
Sample ID:	**C03010393-001A**	Matrix Spike								01/15/03 15:42
Selenium-IV		0.0504	mg/L	0.00100	101	85	115			
Sample ID:	**C03010393-001A**	Matrix Spike Duplicate								01/15/03 15:44
Selenium-IV		0.0513	mg/L	0.00100	103	85	115	1.8	10	
Sample ID:	**C03010393-003A**	Matrix Spike								01/15/03 16:16
Selenium-IV		0.0529	mg/L	0.00100	105	85	115			
Sample ID:	**C03010393-003A**	Matrix Spike Duplicate								01/15/03 16:18
Selenium-IV		0.0526	mg/L	0.00100	104	85	115	0.6	10	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-01-20_1_NH3_01	
Sample ID: C03010389-005DMS	Matrix Spike							01/20/03 10:52	
Nitrogen, Ammonia as N	2.30	mg/L	0.0500	107	80	120			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/20/03 10:54	
Nitrogen, Ammonia as N	2.34	mg/L	0.0500	109	80	120	1.7	20	
Sample ID: C03010389-015DMS	Matrix Spike							01/20/03 11:24	
Nitrogen, Ammonia as N	2.44	mg/L	0.0500	114	80	120			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/20/03 11:26	
Nitrogen, Ammonia as N	2.33	mg/L	0.0500	108	80	120	4.6	20	
Sample ID: C03010421-001BMS	Matrix Spike							01/20/03 11:58	
Nitrogen, Ammonia as N	10.5	mg/L	0.600	102	80	120			
Sample ID: C03010421-001BMSD	Matrix Spike Duplicate							01/20/03 11:59	
Nitrogen, Ammonia as N	10.0	mg/L	0.600	97.2	80	120	4.9	20	
Sample ID: C03010509-006DMS	Matrix Spike							01/20/03 12:27	
Nitrogen, Ammonia as N	2.02	mg/L	0.0500	101	80	120			
Sample ID: C03010509-006DMSD	Matrix Spike Duplicate							01/20/03 12:30	
Nitrogen, Ammonia as N	1.85	mg/L	0.0500	92.5	80	120	8.8	20	
Sample ID: C03010549-009BMS	Matrix Spike							01/20/03 13:21	
Nitrogen, Ammonia as N	6.39	mg/L	0.300	114	80	120			
Sample ID: C03010549-009BMSD	Matrix Spike Duplicate							01/20/03 13:23	
Nitrogen, Ammonia as N	5.93	mg/L	0.300	105	80	120	7.5	20	
Sample ID: C03010557-006EMS	Matrix Spike							01/20/03 14:08	
Nitrogen, Ammonia as N	2.20	mg/L	0.0500	109	80	120			
Sample ID: C03010557-006EMSD	Matrix Spike Duplicate							01/20/03 14:10	
Nitrogen, Ammonia as N	2.19	mg/L	0.0500	108	80	120	0.5	20	
Sample ID: C03010582-005DMS	Matrix Spike							01/20/03 15:03	
Nitrogen, Ammonia as N	1.96	mg/L	0.0500	98	80	120			
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate							01/20/03 15:05	
Nitrogen, Ammonia as N	1.94	mg/L	0.0500	97	80	120	1.0	20	
Sample ID: C03010598-005DMS	Matrix Spike							01/20/03 16:11	
Nitrogen, Ammonia as N	3.50	mg/L	0.150	108	80	120			
Sample ID: C03010598-005DMSD	Matrix Spike Duplicate							01/20/03 16:13	
Nitrogen, Ammonia as N	3.52	mg/L	0.150	109	80	120	0.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R18080
Sample ID: C03010389-001AMS1	Matrix Spike								01/15/03 14:50
Calcium	1150	mg/L	1.00	91.4	80	120			
Magnesium	675	mg/L	1.00	83.3	80	120			
Potassium	421	mg/L	1.00	81.7	80	120			
Sodium	664	mg/L	1.00	84.8	80	120			
Sample ID: C03010389-001AMS3	Matrix Spike								01/15/03 14:56
Chloride	1180	mg/L	1.00	88.5	80	120			
Sulfate	2520	mg/L	1.00	113	80	120			
Sample ID: C03010389-001AMSD1	Matrix Spike Duplicate								01/15/03 15:00
Calcium	1210	mg/L	1.00	104	80	120	5.4	20	
Magnesium	731	mg/L	1.00	94.5	80	120	8.0	20	
Potassium	454	mg/L	1.00	88.3	80	120	7.5	20	
Sodium	703	mg/L	1.00	92.6	80	120	5.7	20	
Sample ID: C03010389-001AMSD3	Matrix Spike Duplicate								01/15/03 15:06
Chloride	1120	mg/L	1.00	83.1	80	120	4.7	20	
Sulfate	2410	mg/L	1.00	102	80	120	4.6	20	
Method: E200.8									Batch: ICPMS1-C011403b
Sample ID: C03010359-008AMS	Matrix Spike								01/14/03 13:51
Aluminum	0.0508	mg/L	0.00100	97.4	70	130			
Beryllium	0.0530	mg/L	0.00100	106	70	130			
Cadmium	0.0491	mg/L	0.00100	97.9	70	130			
Cobalt	0.0481	mg/L	0.00100	96.1	70	130			
Lead	0.0499	mg/L	0.00100	98	70	130			
Manganese	0.0516	mg/L	0.00100	93.3	70	130			
Molybdenum	0.0475	mg/L	0.00100	92.3	70	130			
Nickel	0.0535	mg/L	0.00100	106	70	130			
Uranium	0.0509	mg/L	0.00100	100	70	130			
Vanadium	0.0489	mg/L	0.00100	97.4	70	130			
Sample ID: C03010359-008AMSD	Matrix Spike Duplicate								01/14/03 13:57
Aluminum	0.0513	mg/L	0.00100	98.4	70	130	1.0	20	
Beryllium	0.0545	mg/L	0.00100	109	70	130	2.8	20	
Cadmium	0.0503	mg/L	0.00100	100	70	130	2.5	20	
Cobalt	0.0478	mg/L	0.00100	95.6	70	130	0.6	20	
Lead	0.0521	mg/L	0.00100	102	70	130	4.4	20	
Manganese	0.0510	mg/L	0.00100	92.1	70	130	1.2	20	
Molybdenum	0.0498	mg/L	0.00100	96.7	70	130	4.5	20	
Nickel	0.0534	mg/L	0.00100	106	70	130	0.2	20	
Uranium	0.0518	mg/L	0.00100	102	70	130	1.7	20	
Vanadium	0.0476	mg/L	0.00100	94.8	70	130	2.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C011603a	
Sample ID: C03010346-001AMS	Matrix Spike							01/16/03 17:49	
Aluminum	0.150	mg/L	0.00100	113	70	130			
Beryllium	0.0424	mg/L	0.00100	84.7	70	130			
Cadmium	0.0520	mg/L	0.00100	104	70	130			
Lead	0.0525	mg/L	0.00100	102	70	130			
Uranium	0.152	mg/L	0.000300	110	70	130			
Vanadium	0.0681	mg/L	0.00100	104	70	130			
Sample ID: C03010346-001AMSD	Matrix Spike Duplicate							01/16/03 17:54	
Aluminum	0.145	mg/L	0.00100	103	70	130	3.2	20	
Beryllium	0.0407	mg/L	0.00100	81.5	70	130	3.9	20	
Cadmium	0.0504	mg/L	0.00100	101	70	130	3.2	20	
Lead	0.0509	mg/L	0.00100	98.7	70	130	3.0	20	
Uranium	0.149	mg/L	0.000300	103	70	130	2.3	20	
Vanadium	0.0673	mg/L	0.00100	103	70	130	1.3	20	
Sample ID: C03010389-014AMS	Matrix Spike							01/16/03 20:16	
Aluminum	0.499	mg/L	0.00100	99.8	70	130			
Beryllium	0.477	mg/L	0.00100	95.4	70	130			
Cadmium	0.462	mg/L	0.00100	92.2	70	130			
Lead	0.532	mg/L	0.00100	106	70	130			
Uranium	0.696	mg/L	0.00100	118	70	130			
Vanadium	0.589	mg/L	0.00100	118	70	130			
Sample ID: C03010389-014AMSD	Matrix Spike Duplicate							01/16/03 20:22	
Aluminum	0.493	mg/L	0.00100	98.7	70	130	1.1	20	
Beryllium	0.443	mg/L	0.00100	88.7	70	130	7.3	20	
Cadmium	0.452	mg/L	0.00100	90.1	70	130	2.3	20	
Lead	0.523	mg/L	0.00100	105	70	130	1.7	20	
Uranium	0.727	mg/L	0.00100	124	70	130	4.4	20	
Vanadium	0.575	mg/L	0.00100	115	70	130	2.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012303a	
Sample ID: C03010389-012AMS	Matrix Spike							01/24/03 01:26	
Cobalt	0.544	mg/L	0.00100	108	70	130			
Manganese	1.04	mg/L	0.00100	108	70	130			
Molybdenum	0.532	mg/L	0.00100	106	70	130			
Nickel	0.521	mg/L	0.00100	101	70	130			
Sample ID: C03010389-012AMSD	Matrix Spike Duplicate							01/24/03 01:31	
Cobalt	0.497	mg/L	0.00100	99	70	130	9.1	20	
Manganese	0.971	mg/L	0.00100	94.1	70	130	6.8	20	
Molybdenum	0.487	mg/L	0.00100	97.3	70	130	8.8	20	
Nickel	0.477	mg/L	0.00100	92	70	130	8.8	20	
Sample ID: C03010393-003AMS	Matrix Spike							01/24/03 02:45	
Cobalt	0.660	mg/L	0.00100	93.5	70	130			
Molybdenum	0.507	mg/L	0.00100	92.1	70	130			
Nickel	0.656	mg/L	0.00100	89.5	70	130			
Sample ID: C03010393-003AMSD	Matrix Spike Duplicate							01/24/03 02:50	
Cobalt	0.673	mg/L	0.00100	96	70	130	1.9	20	
Molybdenum	0.518	mg/L	0.00100	94.4	70	130	2.2	20	
Nickel	0.651	mg/L	0.00100	88.6	70	130	0.7	20	
Sample ID: C03010509-006AMS	Matrix Spike							01/24/03 11:59	
Cobalt	0.0488	mg/L	0.00100	97	70	130			
Manganese	0.0864	mg/L	0.00100	96.7	70	130			
Molybdenum	0.0547	mg/L	0.00100	106	70	130			
Nickel	0.0537	mg/L	0.00100	101	70	130			
Sample ID: C03010509-006AMSD	Matrix Spike Duplicate							01/24/03 12:04	
Cobalt	0.0471	mg/L	0.00100	93.7	70	130	3.5	20	
Manganese	0.0849	mg/L	0.00100	93.8	70	130	1.7	20	
Molybdenum	0.0528	mg/L	0.00100	102	70	130	3.6	20	
Nickel	0.0496	mg/L	0.00100	92.9	70	130	8.1	20	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

TRACKING NO. PAGE NO.
C10389R012

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-01-14_1_NO3_02	
Sample ID: C03010389-005DMS	Matrix Spike							01/15/03 13:15	
Nitrogen, Nitrate+Nitrite as N	162	mg/L	3.00	90.4	90	110			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/15/03 13:18	
Nitrogen, Nitrate+Nitrite as N	165	mg/L	3.00	93.7	90	110	1.8	10	
Sample ID: C03010389-015DMS	Matrix Spike							01/15/03 13:23	
Nitrogen, Nitrate+Nitrite as N	214	mg/L	3.00	107	90	110			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/15/03 13:25	
Nitrogen, Nitrate+Nitrite as N	215	mg/L	3.00	108	90	110	0.5	10	
Method: E624								Batch: R18041	
Sample ID: C03010389-015E	Matrix Spike							01/15/03 04:46	
Chloroform	108	ug/L	5.00	108	70	130			
Surr: 1,2-Dichlorobenzene-d4			5.00	98.9	80	120			
Surr: Dibromofluoromethane			5.00	105	70	130			
Surr: p-Bromofluorobenzene			5.00	101	75	125			
Surr: Toluene-d8			5.00	101	80	120			
Sample ID: C03010389-015E	Matrix Spike Duplicate							01/15/03 05:26	
Chloroform	109	ug/L	5.00	109	70	130	1.1	20	
Surr: 1,2-Dichlorobenzene-d4			5.00	98.9	80	120	0	10	
Surr: Dibromofluoromethane			5.00	105	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	101	75	125	0	10	
Surr: Toluene-d8			5.00	99.5	80	120	0	10	
Method: E900.1								Batch: R18342	
Sample ID: C03010359-001ADUP	Sample Duplicate							01/17/03 16:15	
Gross Alpha minus Rn & U	6.40	pCi/L	1.00				16	30	
Sample ID: C03010359-002AMS	Matrix Spike							01/17/03 16:15	
Gross Alpha minus Rn & U	284	pCi/L	1.00	92.8	70	130			
Method: E903.0								Batch: 03RA-015	
Sample ID: C02120182-001AR	Sample Duplicate							01/22/03 14:19	
Radium 226	42.3	pCi/g	0.100				11	30	
Sample ID: C03010390-001A	Sample Duplicate							01/23/03 08:25	
Radium 226	1.20	pCi/L	0.200				0	30	
Sample ID: C03010390-003A	Matrix Spike							01/23/03 12:00	
Radium 226	211	pCi/L	0.200	103	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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C1C389R0020

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 02/04/03
Work Order: C03010389

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E904.0									Batch: 03228045
Sample ID: C02120182-001AR	Sample Duplicate								01/31/03 15:14
Radium 228	2.40	pCi/g-dry	1.00				0	30	
Sample ID: C03010390-001A	Sample Duplicate								01/31/03 16:14
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010390-002A	Sample Duplicate								01/31/03 16:14
Radium 228	4.30	pCi/L	1.00				23	30	
Sample ID: C03010390-004A	Matrix Spike								01/31/03 16:14
Radium 228	6.60	pCi/L	1.00	101	70	130			
Method: E907.0									Batch: R18329
Sample ID: C03010390-004AMS	Matrix Spike								01/16/03 10:30
Thorium 230	116	pCi/L	0.200	92.7	70	130			
Sample ID: C03010390-004ADUP	Sample Duplicate								01/16/03 10:30
Thorium 230	114	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-3
Sample ID: C03010598-005A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-006A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-007A	Matrix Spike								01/25/03 06:43
Lead 210	79	pCi/L	2.7	109	70	130			
Sample ID: C03010598-008A	Matrix Spike								01/25/03 06:43
Lead 210	31	pCi/L	2.7	106	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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010389R0023

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030114A-SLDS-TDS-W	
Sample ID: C03010393-002CMS	Matrix Spike							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6960	mg/L	10.0	99.5	90	110			
Sample ID: C03010393-002CMSD	Matrix Spike Duplicate							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6940	mg/L	10.0	98.7	90	110	0.3	10	
Sample ID: C03010393-003CMS	Matrix Spike							01/14/03 14:54	
Solids, Total Dissolved TDS @ 180 C	7010	mg/L	10.0	100	90	110			
Sample ID: C03010393-003CMSD	Matrix Spike Duplicate							01/14/03 14:55	
Solids, Total Dissolved TDS @ 180 C	7040	mg/L	10.0	102	90	110	0.4	10	
Method: A3114 B								Batch: R18017	
Sample ID: C03010389-010A	Matrix Spike							01/14/03 12:22	
Arsenic-III	0.0499	mg/L	0.00100	99.8	85	115			
Sample ID: C03010389-010A	Matrix Spike Duplicate							01/14/03 12:24	
Arsenic-III	0.0492	mg/L	0.00100	98.4	85	115	1.4	10	
Sample ID: C03010393-001A	Matrix Spike							01/14/03 13:03	
Arsenic-III	0.0507	mg/L	0.00100	100	85	115			
Sample ID: C03010393-001A	Matrix Spike Duplicate							01/14/03 13:05	
Arsenic-III	0.0514	mg/L	0.00100	102	85	115	1.4	10	
Sample ID: C03010393-003A	Matrix Spike							01/14/03 13:25	
Arsenic-III	0.0529	mg/L	0.00100	106	85	115			
Sample ID: C03010393-003A	Matrix Spike Duplicate							01/14/03 13:27	
Arsenic-III	0.0531	mg/L	0.00100	106	85	115	0.4	10	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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0103908005

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R18066
Sample ID: C03010389-010A	Matrix Spike								01/15/03 14:57
Selenium-IV	0.0475	mg/L	0.00100	95	85	115			
Sample ID: C03010389-010A	Matrix Spike Duplicate								01/15/03 15:00
Selenium-IV	0.0482	mg/L	0.00100	96.4	85	115	1.5	10	
Sample ID: C03010393-001A	Matrix Spike								01/15/03 15:42
Selenium-IV	0.0504	mg/L	0.00100	101	85	115			
Sample ID: C03010393-001A	Matrix Spike Duplicate								01/15/03 15:44
Selenium-IV	0.0513	mg/L	0.00100	103	85	115	1.8	10	
Sample ID: C03010393-003A	Matrix Spike								01/15/03 16:16
Selenium-IV	0.0529	mg/L	0.00100	105	85	115			
Sample ID: C03010393-003A	Matrix Spike Duplicate								01/15/03 16:18
Selenium-IV	0.0526	mg/L	0.00100	104	85	115	0.6	10	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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C03090R0006

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-01-20_1_NH3_01	
Sample ID: C03010389-005DMS	Matrix Spike							01/20/03 10:52	
Nitrogen, Ammonia as N	2.30	mg/L	0.0500	107	80	120			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/20/03 10:54	
Nitrogen, Ammonia as N	2.34	mg/L	0.0500	109	80	120	1.7	20	
Sample ID: C03010389-015DMS	Matrix Spike							01/20/03 11:24	
Nitrogen, Ammonia as N	2.44	mg/L	0.0500	114	80	120			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/20/03 11:26	
Nitrogen, Ammonia as N	2.33	mg/L	0.0500	108	80	120	4.6	20	
Sample ID: C03010421-001BMS	Matrix Spike							01/20/03 11:58	
Nitrogen, Ammonia as N	10.5	mg/L	0.600	102	80	120			
Sample ID: C03010421-001BMSD	Matrix Spike Duplicate							01/20/03 11:59	
Nitrogen, Ammonia as N	10.0	mg/L	0.600	97.2	80	120	4.9	20	
Sample ID: C03010509-006DMS	Matrix Spike							01/20/03 12:27	
Nitrogen, Ammonia as N	2.02	mg/L	0.0500	101	80	120			
Sample ID: C03010509-006DMSD	Matrix Spike Duplicate							01/20/03 12:30	
Nitrogen, Ammonia as N	1.85	mg/L	0.0500	92.5	80	120	8.8	20	
Sample ID: C03010549-009BMS	Matrix Spike							01/20/03 13:21	
Nitrogen, Ammonia as N	6.39	mg/L	0.300	114	80	120			
Sample ID: C03010549-009BMSD	Matrix Spike Duplicate							01/20/03 13:23	
Nitrogen, Ammonia as N	5.93	mg/L	0.300	105	80	120	7.5	20	
Sample ID: C03010557-006EMS	Matrix Spike							01/20/03 14:08	
Nitrogen, Ammonia as N	2.20	mg/L	0.0500	109	80	120			
Sample ID: C03010557-006EMSD	Matrix Spike Duplicate							01/20/03 14:10	
Nitrogen, Ammonia as N	2.19	mg/L	0.0500	108	80	120	0.5	20	
Sample ID: C03010582-005DMS	Matrix Spike							01/20/03 15:03	
Nitrogen, Ammonia as N	1.96	mg/L	0.0500	98	80	120			
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate							01/20/03 15:05	
Nitrogen, Ammonia as N	1.94	mg/L	0.0500	97	80	120	1.0	20	
Sample ID: C03010598-005DMS	Matrix Spike							01/20/03 16:11	
Nitrogen, Ammonia as N	3.50	mg/L	0.150	108	80	120			
Sample ID: C03010598-005DMSD	Matrix Spike Duplicate							01/20/03 16:13	
Nitrogen, Ammonia as N	3.52	mg/L	0.150	109	80	120	0.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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C'0390R0007

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C011603a	
Sample ID: C03010346-001AMS	Matrix Spike							01/16/03 17:49	
Aluminum	0.150	mg/L	0.00100	113	70	130			
Beryllium	0.0424	mg/L	0.00100	84.7	70	130			
Cadmium	0.0520	mg/L	0.00100	104	70	130			
Lead	0.0525	mg/L	0.00100	102	70	130			
Uranium	0.152	mg/L	0.000300	110	70	130			
Vanadium	0.0681	mg/L	0.00100	104	70	130			
Sample ID: C03010346-001AMSD	Matrix Spike Duplicate							01/16/03 17:54	
Aluminum	0.145	mg/L	0.00100	103	70	130	3.2	20	
Beryllium	0.0407	mg/L	0.00100	81.5	70	130	3.9	20	
Cadmium	0.0504	mg/L	0.00100	101	70	130	3.2	20	
Lead	0.0509	mg/L	0.00100	98.7	70	130	3.0	20	
Uranium	0.149	mg/L	0.000300	103	70	130	2.3	20	
Vanadium	0.0673	mg/L	0.00100	103	70	130	1.3	20	
Sample ID: C03010389-014AMS	Matrix Spike							01/16/03 20:16	
Aluminum	0.499	mg/L	0.00100	99.8	70	130			
Beryllium	0.477	mg/L	0.00100	95.4	70	130			
Cadmium	0.462	mg/L	0.00100	92.2	70	130			
Lead	0.532	mg/L	0.00100	106	70	130			
Uranium	0.696	mg/L	0.00100	118	70	130			
Vanadium	0.589	mg/L	0.00100	118	70	130			
Sample ID: C03010389-014AMSD	Matrix Spike Duplicate							01/16/03 20:22	
Aluminum	0.493	mg/L	0.00100	98.7	70	130	1.1	20	
Beryllium	0.443	mg/L	0.00100	88.7	70	130	7.3	20	
Cadmium	0.452	mg/L	0.00100	90.1	70	130	2.3	20	
Lead	0.523	mg/L	0.00100	105	70	130	1.7	20	
Uranium	0.727	mg/L	0.00100	124	70	130	4.4	20	
Vanadium	0.575	mg/L	0.00100	115	70	130	2.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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010390R0009

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: ICPMS1-C012303a
Sample ID: C03010389-012AMS	Matrix Spike								01/24/03 01:26
Cobalt	0.544	mg/L	0.00100	108	70	130			
Manganese	1.04	mg/L	0.00100	108	70	130			
Molybdenum	0.532	mg/L	0.00100	106	70	130			
Nickel	0.521	mg/L	0.00100	101	70	130			
Sample ID: C03010389-012AMSD	Matrix Spike Duplicate								01/24/03 01:31
Cobalt	0.497	mg/L	0.00100	99	70	130	9.1	20	
Manganese	0.971	mg/L	0.00100	94.1	70	130	6.8	20	
Molybdenum	0.487	mg/L	0.00100	97.3	70	130	8.8	20	
Nickel	0.477	mg/L	0.00100	92	70	130	8.8	20	
Sample ID: C03010393-003AMS	Matrix Spike								01/24/03 02:45
Cobalt	0.660	mg/L	0.00100	93.5	70	130			
Molybdenum	0.507	mg/L	0.00100	92.1	70	130			
Nickel	0.656	mg/L	0.00100	89.5	70	130			
Sample ID: C03010393-003AMSD	Matrix Spike Duplicate								01/24/03 02:50
Cobalt	0.673	mg/L	0.00100	96	70	130	1.9	20	
Molybdenum	0.518	mg/L	0.00100	94.4	70	130	2.2	20	
Nickel	0.651	mg/L	0.00100	88.6	70	130	0.7	20	
Sample ID: C03010509-006AMS	Matrix Spike								01/24/03 11:59
Cobalt	0.0488	mg/L	0.00100	97	70	130			
Manganese	0.0864	mg/L	0.00100	96.7	70	130			
Molybdenum	0.0547	mg/L	0.00100	106	70	130			
Nickel	0.0537	mg/L	0.00100	101	70	130			
Sample ID: C03010509-006AMSD	Matrix Spike Duplicate								01/24/03 12:04
Cobalt	0.0471	mg/L	0.00100	93.7	70	130	3.5	20	
Manganese	0.0849	mg/L	0.00100	93.8	70	130	1.7	20	
Molybdenum	0.0528	mg/L	0.00100	102	70	130	3.6	20	
Nickel	0.0496	mg/L	0.00100	92.9	70	130	8.1	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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C10390R0009

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-01-14_1_NO3_02	
Sample ID: C03010389-005DMS	Matrix Spike							01/15/03 13:15	
Nitrogen, Nitrate+Nitrite as N	162	mg/L	3.00	90.4	90	110			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/15/03 13:18	
Nitrogen, Nitrate+Nitrite as N	165	mg/L	3.00	93.7	90	110	1.8	10	
Sample ID: C03010389-015DMS	Matrix Spike							01/15/03 13:23	
Nitrogen, Nitrate+Nitrite as N	214	mg/L	3.00	107	90	110			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/15/03 13:25	
Nitrogen, Nitrate+Nitrite as N	215	mg/L	3.00	108	90	110	0.5	10	
Method: E624								Batch: R18077	
Sample ID: C03010390-002E	Matrix Spike							01/16/03 02:12	
Chloroform	1270	ug/L	50.0	112	70	130			
Surr: 1,2-Dichlorobenzene-d4			50.0	100	80	120			
Surr: Dibromofluoromethane			50.0	106	70	130			
Surr: p-Bromofluorobenzene			50.0	101	75	125			
Surr: Toluene-d8			50.0	102	80	120			
Sample ID: C03010390-002E	Matrix Spike Duplicate							01/16/03 02:50	
Chloroform	1270	ug/L	50.0	112	70	130	0	20	
Surr: 1,2-Dichlorobenzene-d4			50.0	100	80	120	0	10	
Surr: Dibromofluoromethane			50.0	104	70	130	0	10	
Surr: p-Bromofluorobenzene			50.0	102	75	125	0	10	
Surr: Toluene-d8			50.0	101	80	120	0	10	
Method: E900.1								Batch: R18433	
Sample ID: C03010390-002AMS	Matrix Spike							01/21/03 15:55	
Gross Alpha minus Rn & U	284	pCi/L	1.00	92	70	130			
Method: E903.0								Batch: 03RA-015	
Sample ID: C02120182-001AR	Sample Duplicate							01/22/03 14:19	
Radium 226	42.3	pCi/g	0.100				11	30	
Sample ID: C03010390-001A	Sample Duplicate							01/23/03 08:25	
Radium 226	1.20	pCi/L	0.200				0	30	
Sample ID: C03010390-003A	Matrix Spike							01/23/03 12:00	
Radium 226	211	pCi/L	0.200	103	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

TRACKING NO. PAGE NO.
0103390R0010

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/04/03
Work Order: C03010390

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E904.0									Batch: 03228045
Sample ID: C02120182-001AR	Sample Duplicate								01/31/03 15:14
Radium 228	2.40	pCi/g-dry	1.00				0	30	
Sample ID: C03010390-001A	Sample Duplicate								01/31/03 16:14
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010390-002A	Sample Duplicate								01/31/03 16:14
Radium 228	4.30	pCi/L	1.00				23	30	
Sample ID: C03010390-004A	Matrix Spike								01/31/03 16:14
Radium 228	6.60	pCi/L	1.00	101	70	130			
Method: E907.0									Batch: R18329
Sample ID: C03010390-004AMS	Matrix Spike								01/16/03 10:30
Thorium 230	116	pCi/L	0.200	92.7	70	130			
Sample ID: C03010390-004ADUP	Sample Duplicate								01/16/03 10:30
Thorium 230	114	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-2
Sample ID: C03010390-003ADUP	Sample Duplicate								01/22/03 09:44
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010390-004AMS	Matrix Spike								01/22/03 09:44
Lead 210	74	pCi/L	2.7	102	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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C03090R001

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: O-012303-3
Sample ID: C19411BLK	Method Blank								01/23/03 15:30
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B									Batch: O-012403-1
Sample ID: C19411BLK	Method Blank								01/24/03 07:47
Bicarbonate as HCO3	ND	mg/L	1.00						
Sample ID: C03010686-001A	Sample Duplicate								01/24/03 08:11
Bicarbonate as HCO3	634	mg/L	1.00				8.0	10	
pH	8.25	s.u.	0.0100						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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010599R0008

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030120A-SLDS-TDS-W	
Sample ID: LCS1_030120A	Laboratory Control Spike							01/20/03 11:21	
Solids, Total Dissolved TDS @ 180 C	989	mg/L	10.0	98.9	90	110			
Sample ID: C03010582-002BMS	Matrix Spike							01/20/03 11:36	
Solids, Total Dissolved TDS @ 180 C	2070	mg/L	10.0	98.5	90	110			
Sample ID: C03010582-002BMSD	Matrix Spike Duplicate							01/20/03 11:37	
Solids, Total Dissolved TDS @ 180 C	2080	mg/L	10.0	98.9	90	110	0.5	10	
Sample ID: C03010589-009CMS	Matrix Spike							01/20/03 16:41	
Solids, Total Dissolved TDS @ 180 C	4140	mg/L	10.0	103	90	110			
Sample ID: C03010589-009CMSD	Matrix Spike Duplicate							01/20/03 16:42	
Solids, Total Dissolved TDS @ 180 C	4100	mg/L	10.0	101	90	110	0.9	10	
Sample ID: MBLK1_030120A	Method Blank							01/20/03 16:42	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS2_030120A	Laboratory Control Spike							01/20/03 16:43	
Solids, Total Dissolved TDS @ 180 C	987	mg/L	10.0	98.7	90	110			
Sample ID: C03010599-005BMS	Matrix Spike							01/20/03 16:53	
Solids, Total Dissolved TDS @ 180 C	8110	mg/L	10.0	103	90	110			
Sample ID: C03010599-005BMSD	Matrix Spike Duplicate							01/20/03 16:54	
Solids, Total Dissolved TDS @ 180 C	8060	mg/L	10.0	101	90	110	0.7	10	
Sample ID: C03010605-001BMS	Matrix Spike							01/20/03 16:59	
Solids, Total Dissolved TDS @ 180 C	2930	mg/L	10.0	101	90	110			
Sample ID: C03010605-001BMSD	Matrix Spike Duplicate							01/20/03 17:00	
Solids, Total Dissolved TDS @ 180 C	2960	mg/L	10.0	102	90	110	0.8	10	
Sample ID: MBLK2_030120A	Method Blank							01/20/03 17:01	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030120A	Laboratory Control Spike							01/20/03 17:01	
Solids, Total Dissolved TDS @ 180 C	993	mg/L	10.0	99.3	90	110			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R18237
Sample ID: MBLK1	Method Blank								01/21/03 10:24
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03010599-001A	Matrix Spike								01/21/03 11:27
Arsenic-III	0.0560	mg/L	0.00100	105	85	115			
Sample ID: C03010599-001A	Matrix Spike Duplicate								01/21/03 11:30
Arsenic-III	0.0544	mg/L	0.00100	102	85	115	2.9	10	
Sample ID: C209-28-8	Laboratory Control Spike								01/21/03 11:33
Arsenic-III	0.0542	mg/L	0.00100	108	90	110			
Sample ID: C03010599-006A	Matrix Spike								01/21/03 11:51
Arsenic-III	0.0542	mg/L	0.00100	107	85	115			
Sample ID: C03010599-006A	Matrix Spike Duplicate								01/21/03 11:54
Arsenic-III	0.0518	mg/L	0.00100	102	85	115	4.5	10	
Sample ID: C209-28-8	Laboratory Control Spike								01/21/03 11:56
Arsenic-III	0.0513	mg/L	0.00100	103	90	110			
Sample ID: MBLK2	Method Blank								01/21/03 12:01
Arsenic-III	ND	mg/L	0.00100						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R18256
Sample ID: MBLK1	Method Blank								01/21/03 15:00
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03010599-001A	Matrix Spike								01/21/03 15:24
Selenium-IV	0.0495	mg/L	0.00100	99	85	115			
Sample ID: C03010599-001A	Matrix Spike Duplicate								01/21/03 15:26
Selenium-IV	0.0506	mg/L	0.00100	101	85	115	2.2	10	
Sample ID: C209-29-1	Laboratory Control Spike								01/21/03 15:29
Selenium-IV	0.0497	mg/L	0.00100	99.4	90	110			
Sample ID: MBLK2	Method Blank								01/21/03 15:37
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03010599-006A	Matrix Spike								01/21/03 15:53
Selenium-IV	0.0458	mg/L	0.00100	91.6	85	115			
Sample ID: C03010599-006A	Matrix Spike Duplicate								01/21/03 15:56
Selenium-IV	0.0458	mg/L	0.00100	91.6	85	115	0	10	
Sample ID: C209-29-1	Laboratory Control Spike								01/21/03 15:58
Selenium-IV	0.0519	mg/L	0.00100	104	90	110			
Sample ID: MBLK3	Method Blank								01/21/03 16:02
Selenium-IV	ND	mg/L	0.00100						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-01-27_1_NH3_01	
Sample ID: MBLK-1	Method Blank							01/27/03 10:53	
Nitrogen, Ammonia as N	0.0400	mg/L	0.0500						
Sample ID: C03010599-005DMS	Matrix Spike							01/27/03 11:07	
Nitrogen, Ammonia as N	22.8	mg/L	0.600	91.3	80	120			
Sample ID: C03010599-005DMSD	Matrix Spike Duplicate							01/27/03 11:09	
Nitrogen, Ammonia as N	23.6	mg/L	0.600	99.4	80	120	3.4	20	
Sample ID: MBLK-17	Method Blank							01/27/03 11:27	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03010674-001BMS	Matrix Spike							01/27/03 11:41	
Nitrogen, Ammonia as N	27.1	mg/L	0.600	108	80	120			
Sample ID: C03010674-001BMSD	Matrix Spike Duplicate							01/27/03 11:43	
Nitrogen, Ammonia as N	27.1	mg/L	0.600	108	80	120	0	20	
Sample ID: MBLK-32	Method Blank							01/27/03 11:59	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03010777-004DMS	Matrix Spike							01/27/03 12:11	
Nitrogen, Ammonia as N	2.64	mg/L	0.0500	112	80	120			
Sample ID: C03010777-004DMSD	Matrix Spike Duplicate							01/27/03 12:13	
Nitrogen, Ammonia as N	2.52	mg/L	0.0500	106	80	120	4.7	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: LRB	Method Blank							01/28/03 16:18	
Aluminum	ND	mg/L	0.00100						
Beryllium	ND	mg/L	0.00100						
Cadmium	ND	mg/L	0.00100						
Cobalt	ND	mg/L	0.00100						
Lead	ND	mg/L	0.00100						
Manganese	ND	mg/L	0.00100						
Molybdenum	ND	mg/L	0.00100						
Nickel	ND	mg/L	0.00100						
Uranium	ND	mg/L	0.000300						
Vanadium	ND	mg/L	0.00100						
Sample ID: LRB	Method Blank							01/28/03 17:54	
Aluminum	0.00124	mg/L	0.00100						
Beryllium	ND	mg/L	0.00100						
Cadmium	ND	mg/L	0.00100						
Cobalt	ND	mg/L	0.00100						
Lead	ND	mg/L	0.00100						
Manganese	ND	mg/L	0.00100						
Molybdenum	ND	mg/L	0.00100						
Nickel	ND	mg/L	0.00100						
Uranium	ND	mg/L	0.000300						
Vanadium	ND	mg/L	0.00100						
Sample ID: C03010598-006AMS	Matrix Spike							01/29/03 00:23	
Aluminum	1.50	mg/L	0.00100	96	70	130			
Beryllium	0.420	mg/L	0.00100	82.9	70	130			
Cadmium	0.512	mg/L	0.00100	102	70	130			
Cobalt	0.920	mg/L	0.00100	96.8	70	130			
Lead	0.512	mg/L	0.00100	102	70	130			
Molybdenum	0.672	mg/L	0.00100	112	70	130			
Nickel	0.818	mg/L	0.00100	93.4	70	130			
Uranium	0.596	mg/L	0.00100	110	70	130			
Vanadium	0.492	mg/L	0.00100	98.4	70	130			
Sample ID: C03010598-006AMSD	Matrix Spike Duplicate							01/29/03 00:44	
Aluminum	1.49	mg/L	0.00100	94.6	70	130	0.5	20	
Beryllium	0.420	mg/L	0.00100	83	70	130	0	20	
Cadmium	0.488	mg/L	0.00100	97.4	70	130	4.8	20	
Cobalt	0.917	mg/L	0.00100	96.2	70	130	0.4	20	
Lead	0.488	mg/L	0.00100	97.5	70	130	4.8	20	
Manganese	8.20	mg/L	0.00100	123	70	130	3.8	20	
Molybdenum	0.607	mg/L	0.00100	99.4	70	130	10	20	
Nickel	0.837	mg/L	0.00100	97.2	70	130	2.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010598-006AMSD	Matrix Spike Duplicate							01/29/03 00:44	
Uranium	0.563	mg/L	0.00100	104	70	130	5.7	20	
Vanadium	0.476	mg/L	0.00100	95.2	70	130	3.3	20	
Sample ID: C03010599-007AMS	Matrix Spike							01/29/03 01:58	
Aluminum	0.0558	mg/L	0.00100	101	70	130			
Beryllium	0.0469	mg/L	0.00100	93.8	70	130			
Cadmium	0.0519	mg/L	0.00100	103	70	130			
Cobalt	0.0503	mg/L	0.00100	101	70	130			
Lead	0.0496	mg/L	0.00100	98.5	70	130			
Manganese	0.0482	mg/L	0.00100	95.1	70	130			
Molybdenum	0.0497	mg/L	0.00100	99.4	70	130			
Nickel	0.0475	mg/L	0.00100	94.8	70	130			
Uranium	0.0517	mg/L	0.00100	103	70	130			
Vanadium	0.0474	mg/L	0.00100	94.7	70	130			
Sample ID: C03010599-007AMSD	Matrix Spike Duplicate							01/29/03 02:03	
Aluminum	0.0560	mg/L	0.00100	101	70	130	0.3	20	
Beryllium	0.0489	mg/L	0.00100	97.8	70	130	4.2	20	
Cadmium	0.0515	mg/L	0.00100	102	70	130	0.9	20	
Cobalt	0.0509	mg/L	0.00100	102	70	130	1.2	20	
Lead	0.0500	mg/L	0.00100	99.3	70	130	0.8	20	
Manganese	0.0495	mg/L	0.00100	97.7	70	130	2.6	20	
Molybdenum	0.0505	mg/L	0.00100	101	70	130	1.5	20	
Nickel	0.0491	mg/L	0.00100	98	70	130	3.3	20	
Uranium	0.0526	mg/L	0.00100	105	70	130	1.6	20	
Vanadium	0.0484	mg/L	0.00100	96.9	70	130	2.3	20	
Sample ID: C03010697-003AMS	Matrix Spike							01/29/03 03:17	
Aluminum	0.0549	mg/L	0.00100	103	70	130			
Beryllium	0.0449	mg/L	0.00100	89.8	70	130			
Cadmium	0.0572	mg/L	0.00100	114	70	130			
Cobalt	0.0559	mg/L	0.00100	109	70	130			
Lead	0.0563	mg/L	0.00100	110	70	130			
Manganese	0.340	mg/L	0.00100	102	70	130			
Molybdenum	0.0616	mg/L	0.00100	121	70	130			
Nickel	0.0488	mg/L	0.00100	88.7	70	130			
Vanadium	0.169	mg/L	0.00100	97.4	70	130			
Se spike addition < 30% of background concentration									
Sample ID: C03010697-003AMSD	Matrix Spike Duplicate							01/29/03 03:22	
Aluminum	0.0529	mg/L	0.00100	98.8	70	130	3.7	20	
Beryllium	0.0436	mg/L	0.00100	87.1	70	130	3.0	20	
Cadmium	0.0527	mg/L	0.00100	105	70	130	8.2	20	
Cobalt	0.0512	mg/L	0.00100	99.5	70	130	8.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010697-003AMSD	Matrix Spike Duplicate							01/29/03 03:22	
Lead	0.0527	mg/L	0.00100	103	70	130	6.6	20	
Manganese	0.332	mg/L	0.00100	86.6	70	130	2.4	20	
Molybdenum	0.0585	mg/L	0.00100	115	70	130	5.1	20	
Nickel	0.0454	mg/L	0.00100	82	70	130	7.1	20	
Uranium	14.6	mg/L	0.000300	100	70	130	1.2	20	
Vanadium	0.166	mg/L	0.00100	92	70	130	1.6	20	
Se spike addition < 30% of background concentration									
Sample ID: C03010712-007BMS	Matrix Spike							01/29/03 04:36	
Aluminum	0.465	mg/L	0.00100	111	70	130			
Beryllium	0.223	mg/L	0.00100	89.1	70	130			
Cadmium	0.276	mg/L	0.00100	110	70	130			
Cobalt	0.256	mg/L	0.00100	102	70	130			
Lead	0.260	mg/L	0.00100	104	70	130			
Manganese	0.250	mg/L	0.00100	95.1	70	130			
Molybdenum	0.296	mg/L	0.00100	118	70	130			
Nickel	0.230	mg/L	0.00100	91.3	70	130			
Uranium	0.288	mg/L	0.00100	114	70	130			
Vanadium	0.245	mg/L	0.00100	97.4	70	130			
Sample ID: C03010712-007BMSD	Matrix Spike Duplicate							01/29/03 05:45	
Aluminum	0.432	mg/L	0.00100	98.2	70	130	7.4	20	
Beryllium	0.249	mg/L	0.00100	99.4	70	130	11	20	
Cadmium	0.249	mg/L	0.00100	99.6	70	130	10	20	
Cobalt	0.257	mg/L	0.00100	103	70	130	0.2	20	
Lead	0.255	mg/L	0.00100	102	70	130	1.7	20	
Manganese	0.262	mg/L	0.00100	99.9	70	130	4.7	20	
Molybdenum	0.258	mg/L	0.00100	103	70	130	14	20	
Nickel	0.256	mg/L	0.00100	102	70	130	11	20	
Uranium	0.260	mg/L	0.00100	103	70	130	10	20	
Vanadium	0.267	mg/L	0.00100	106	70	130	8.6	20	
Sample ID: C03010712-017BMS	Matrix Spike							01/29/03 06:59	
Aluminum	0.256	mg/L	0.00100	100	70	130			
Beryllium	0.218	mg/L	0.00100	87.4	70	130			
Cadmium	0.275	mg/L	0.00100	110	70	130			
Cobalt	0.316	mg/L	0.00100	127	70	130			
Lead	0.280	mg/L	0.00100	112	70	130			
Manganese	0.612	mg/L	0.00100	120	70	130			
Molybdenum	0.305	mg/L	0.00100	121	70	130			
Nickel	0.277	mg/L	0.00100	108	70	130			
Uranium	0.352	mg/L	0.00100	110	70	130			
Vanadium	0.292	mg/L	0.00100	117	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010712-017BMSD	Matrix Spike Duplicate							01/29/03 07:04	
Aluminum	0.221	mg/L	0.00100	86.2	70	130	15	20	
Beryllium	0.193	mg/L	0.00100	77.4	70	130	12	20	
Cadmium	0.268	mg/L	0.00100	107	70	130	2.3	20	
Cobalt	0.309	mg/L	0.00100	124	70	130	2.3	20	
Lead	0.269	mg/L	0.00100	107	70	130	4.1	20	
Manganese	0.604	mg/L	0.00100	117	70	130	1.4	20	
Molybdenum	0.299	mg/L	0.00100	119	70	130	1.8	20	
Nickel	0.272	mg/L	0.00100	106	70	130	1.8	20	
Uranium	0.344	mg/L	0.00100	107	70	130	2.2	20	
Vanadium	0.278	mg/L	0.00100	111	70	130	4.8	20	
Sample ID: C03010712-027BMS	Matrix Spike							01/29/03 08:18	
Aluminum	0.310	mg/L	0.00100	121	70	130			
Beryllium	0.252	mg/L	0.00100	101	70	130			
Cadmium	0.302	mg/L	0.00100	121	70	130			
Cobalt	0.314	mg/L	0.00100	125	70	130			
Lead	0.298	mg/L	0.00100	119	70	130			
Manganese	0.299	mg/L	0.00100	118	70	130			
Molybdenum	0.324	mg/L	0.00100	129	70	130			
Nickel	0.279	mg/L	0.00100	111	70	130			
Uranium	0.308	mg/L	0.00100	123	70	130			
Vanadium	0.314	mg/L	0.00100	124	70	130			
Sample ID: C03010712-027BMSD	Matrix Spike Duplicate							01/29/03 08:23	
Aluminum	0.262	mg/L	0.00100	103	70	130	17	20	
Beryllium	0.264	mg/L	0.00100	105	70	130	4.6	20	
Cadmium	0.263	mg/L	0.00100	105	70	130	14	20	
Cobalt	0.274	mg/L	0.00100	109	70	130	13	20	
Lead	0.274	mg/L	0.00100	110	70	130	8.2	20	
Manganese	0.274	mg/L	0.00100	109	70	130	8.6	20	
Molybdenum	0.287	mg/L	0.00100	114	70	130	12	20	
Nickel	0.277	mg/L	0.00100	110	70	130	0.8	20	
Uranium	0.285	mg/L	0.00100	113	70	130	7.9	20	
Vanadium	0.298	mg/L	0.00100	118	70	130	5.1	20	
Sample ID: C03010712-037BMS	Matrix Spike							01/29/03 09:37	
Aluminum	0.285	mg/L	0.00100	106	70	130			
Beryllium	0.279	mg/L	0.00100	112	70	130			
Cadmium	0.266	mg/L	0.00100	106	70	130			
Cobalt	0.266	mg/L	0.00100	106	70	130			
Lead	0.273	mg/L	0.00100	109	70	130			
Manganese	0.312	mg/L	0.00100	109	70	130			
Molybdenum	0.268	mg/L	0.00100	107	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010712-037BMS	Matrix Spike							01/29/03 09:37	
Nickel	0.291	mg/L	0.00100	116	70	130			
Uranium	0.280	mg/L	0.00100	112	70	130			
Vanadium	0.296	mg/L	0.00100	118	70	130			
Method: E353.2								Batch: A2003-01-21_1_NO3_01	
Sample ID: MBLK-1	Method Blank							01/22/03 09:57	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate							01/22/03 10:28	
Nitrogen, Nitrate+Nitrite as N	2.14	mg/L	0.100	107	90	110	2.8	10	
Sample ID: MBLK-17	Method Blank							01/22/03 10:40	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03010599-001DMS	Matrix Spike							01/22/03 10:55	
Nitrogen, Nitrate+Nitrite as N	2.07	mg/L	0.100	97	90	110			
Sample ID: C03010599-001DMSD	Matrix Spike Duplicate							01/22/03 10:58	
Nitrogen, Nitrate+Nitrite as N	2.06	mg/L	0.100	96.5	90	110	0.5	10	
Method: E353.2								Batch: A2003-01-21_1_NO3_03	
Sample ID: MBLK-1	Method Blank							01/22/03 15:22	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03010684-002EMS	Matrix Spike							01/22/03 15:41	
Nitrogen, Nitrate+Nitrite as N	2.01	mg/L	0.100	101	90	110			
Sample ID: C03010684-002EMSD	Matrix Spike Duplicate							01/22/03 15:43	
Nitrogen, Nitrate+Nitrite as N	1.93	mg/L	0.100	96.5	90	110	4.1	10	
Sample ID: MBLK-17	Method Blank							01/22/03 16:03	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18260
Sample ID: Lab Control @	Laboratory Control Spike								01/21/03 11:30
Surr: 1,2-Dichlorobenzene-d4			1.00	103	80	120			
Surr: Dibromofluoromethane			1.00	96.4	70	130			
Surr: p-Bromofluorobenzene			1.00	104	75	125			
Surr: Toluene-d8			1.00	100	80	120			
Sample ID: Method Blank	Method Blank								01/21/03 14:01
Surr: 1,2-Dichlorobenzene-d4			1.00	101	80	120			
Surr: Dibromofluoromethane			1.00	99.5	70	130			
Surr: p-Bromofluorobenzene			1.00	102	75	125			
Surr: Toluene-d8			1.00	100	80	120			
Sample ID: C03010599-006E	Matrix Spike								01/22/03 05:20
Surr: 1,2-Dichlorobenzene-d4			5.00	98.9	80	120			
Surr: Dibromofluoromethane			5.00	104	70	130			
Surr: p-Bromofluorobenzene			5.00	101	75	125			
Surr: Toluene-d8			5.00	102	80	120			
Sample ID: C03010599-006E	Matrix Spike Duplicate								01/22/03 05:58
Surr: 1,2-Dichlorobenzene-d4			5.00	105	80	120	0	10	
Surr: Dibromofluoromethane			5.00	103	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	104	75	125	0	10	
Surr: Toluene-d8			5.00	103	80	120	0	10	

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18266
Sample ID: Lab Control @	Laboratory Control Spike								01/21/03 11:30
Chloroform	10.1	ug/L	1.00	101	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	103	80	120			
Surr: Dibromofluoromethane			1.00	96.4	70	130			
Surr: p-Bromofluorobenzene			1.00	104	75	125			
Surr: Toluene-d8			1.00	100	80	120			
Sample ID: Method Blank	Method Blank								01/21/03 14:01
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	101	80	120			
Surr: Dibromofluoromethane			1.00	99.5	70	130			
Surr: p-Bromofluorobenzene			1.00	102	75	125			
Surr: Toluene-d8			1.00	100	80	120			
Sample ID: C03010599-006E	Matrix Spike								01/22/03 05:20
Chloroform	110	ug/L	5.00	110	70	130			
Surr: 1,2-Dichlorobenzene-d4			5.00	98.9	80	120			
Surr: Dibromofluoromethane			5.00	104	70	130			
Surr: p-Bromofluorobenzene			5.00	101	75	125			
Surr: Toluene-d8			5.00	102	80	120			
Sample ID: C03010599-006E	Matrix Spike Duplicate								01/22/03 05:58
Chloroform	115	ug/L	5.00	115	70	130	5.0	20	
Surr: 1,2-Dichlorobenzene-d4			5.00	105	80	120	0	10	
Surr: Dibromofluoromethane			5.00	103	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	104	75	125	0	10	
Surr: Toluene-d8			5.00	103	80	120	0	10	
Method: E900.1									Batch: R18465
Sample ID: C03010531-001ADUP	Sample Duplicate								01/22/03 16:05
Gross Alpha minus Rn & U	1.50	pCi/L	1.00				0	30	
Gross Alpha minus Rn & U Precision (±	1.00	pCi/L							
Sample ID: C03010531-002AMS	Matrix Spike								01/22/03 16:05
Gross Alpha minus Rn & U	317	pCi/L	1.00	104	70	130			
Sample ID: MB-R18465	Method Blank								01/22/03 16:05
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R18465	Laboratory Control Spike								01/22/03 16:05
Gross Alpha minus Rn & U	344	pCi/L	1.00	113	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-19
Sample ID: C03010531-001A	Sample Duplicate								01/28/03 17:46
Radium 226	1.40	pCi/L	0.200				15	30	
Radium 226 precision (±)	0.300	±	0						
Sample ID: C03010531-002A	Sample Duplicate								01/28/03 19:46
Radium 226	1.10	pCi/L	0.200				8.7	30	
Radium 226 precision (±)	0.200	±	0						
Sample ID: C03010531-003A	Matrix Spike								01/28/03 21:20
Radium 226	200	pCi/L	0.200	98.6	70	130			
Sample ID: MB	Method Blank								01/29/03 16:26
Radium 226	ND	pCi/L	0.200						
Sample ID: 226	Laboratory Control Spike								01/29/03 18:01
Radium 226	121	pCi/L	0.200	100	70	130			
Method: E904.0									Batch: 03228055
Sample ID: 228	Laboratory Control Spike								02/06/03 13:43
Radium 228	2.80	pCi/L	1.00	71.8	70	130			
Sample ID: C03010531-001A	Sample Duplicate								02/06/03 13:43
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010531-002A	Sample Duplicate								02/06/03 13:43
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010531-004A	Matrix Spike								02/06/03 13:43
Radium 228	7.50	pCi/L	1.00	115	70	130			
Sample ID: MB	Method Blank								02/06/03 13:43
Radium 228	ND	pCi/L	1.00						
Method: E907.0									Batch: R18661
Sample ID: MB-R18661	Method Blank								01/29/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R18661	Laboratory Control Spike								01/29/03 10:30
Thorium 230	22.8	pCi/L	0.200	91.2	70	130			
Sample ID: C03010684-004AMS	Matrix Spike								01/29/03 10:30
Thorium 230	112	pCi/L	0.200	89.5	70	130			
Sample ID: C03010684-004ADUP	Sample Duplicate								01/29/03 10:30
Thorium 230	104	pCi/L	0.200						

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 02/24/03
Work Order: C03010599

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: NERHL-65-4									Batch: 03PB-5
Sample ID: 210	Laboratory Control Spike								02/16/03 15:33
Lead 210	25	pCi/L	2.7	86.9	70	130			
Sample ID: C03020322-007A	Sample Duplicate								02/16/03 15:33
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03020322-008A	Sample Duplicate								02/16/03 15:33
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03020322-009A	Matrix Spike								02/16/03 15:33
Lead 210	91	pCi/L	2.7	125	70	130			
Sample ID: C03020322-010A	Matrix Spike								02/16/03 15:33
Lead 210	92	pCi/L	2.7	127	70	130			
Sample ID: MB	Method Blank								02/16/03 15:33
Lead 210	ND	pCi/L	2.7						

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030114A-SLDS-TDS-W	
Sample ID: C03010393-002CMS	Matrix Spike							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6960	mg/L	10.0	99.5	90	110			
Sample ID: C03010393-002CMSD	Matrix Spike Duplicate							01/14/03 13:49	
Solids, Total Dissolved TDS @ 180 C	6940	mg/L	10.0	98.7	90	110	0.3	10	
Sample ID: C03010393-003CMS	Matrix Spike							01/14/03 14:54	
Solids, Total Dissolved TDS @ 180 C	7010	mg/L	10.0	100	90	110			
Sample ID: C03010393-003CMSD	Matrix Spike Duplicate							01/14/03 14:55	
Solids, Total Dissolved TDS @ 180 C	7040	mg/L	10.0	102	90	110	0.4	10	
Method: A3114 B								Batch: R18017	
Sample ID: C03010389-010A	Matrix Spike							01/14/03 12:22	
Arsenic-III	0.0499	mg/L	0.00100	99.8	85	115			
Sample ID: C03010389-010A	Matrix Spike Duplicate							01/14/03 12:24	
Arsenic-III	0.0492	mg/L	0.00100	98.4	85	115	1.4	10	
Sample ID: C03010393-001A	Matrix Spike							01/14/03 13:03	
Arsenic-III	0.0507	mg/L	0.00100	100	85	115			
Sample ID: C03010393-001A	Matrix Spike Duplicate							01/14/03 13:05	
Arsenic-III	0.0514	mg/L	0.00100	102	85	115	1.4	10	
Sample ID: C03010393-003A	Matrix Spike							01/14/03 13:25	
Arsenic-III	0.0529	mg/L	0.00100	106	85	115			
Sample ID: C03010393-003A	Matrix Spike Duplicate							01/14/03 13:27	
Arsenic-III	0.0531	mg/L	0.00100	106	85	115	0.4	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R18066
Sample ID: C03010389-010A	Matrix Spike								01/15/03 14:57
Selenium-IV	0.0475	mg/L	0.00100	95	85	115			
Sample ID: C03010389-010A	Matrix Spike Duplicate								01/15/03 15:00
Selenium-IV	0.0482	mg/L	0.00100	96.4	85	115	1.5	10	
Sample ID: C03010393-001A	Matrix Spike								01/15/03 15:42
Selenium-IV	0.0504	mg/L	0.00100	101	85	115			
Sample ID: C03010393-001A	Matrix Spike Duplicate								01/15/03 15:44
Selenium-IV	0.0513	mg/L	0.00100	103	85	115	1.8	10	
Sample ID: C03010393-003A	Matrix Spike								01/15/03 16:16
Selenium-IV	0.0529	mg/L	0.00100	105	85	115			
Sample ID: C03010393-003A	Matrix Spike Duplicate								01/15/03 16:18
Selenium-IV	0.0526	mg/L	0.00100	104	85	115	0.6	10	

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-01-20_1_NH3_01	
Sample ID: C03010389-005DMS	Matrix Spike								01/20/03 10:52
Nitrogen, Ammonia as N	2.30	mg/L	0.0500	107	80	120			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate								01/20/03 10:54
Nitrogen, Ammonia as N	2.34	mg/L	0.0500	109	80	120	1.7	20	
Sample ID: C03010389-015DMS	Matrix Spike								01/20/03 11:24
Nitrogen, Ammonia as N	2.44	mg/L	0.0500	114	80	120			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate								01/20/03 11:26
Nitrogen, Ammonia as N	2.33	mg/L	0.0500	108	80	120	4.6	20	
Sample ID: C03010421-001BMS	Matrix Spike								01/20/03 11:58
Nitrogen, Ammonia as N	10.5	mg/L	0.600	102	80	120			
Sample ID: C03010421-001BMSD	Matrix Spike Duplicate								01/20/03 11:59
Nitrogen, Ammonia as N	10.0	mg/L	0.600	97.2	80	120	4.9	20	
Sample ID: C03010509-006DMS	Matrix Spike								01/20/03 12:27
Nitrogen, Ammonia as N	2.02	mg/L	0.0500	101	80	120			
Sample ID: C03010509-006DMSD	Matrix Spike Duplicate								01/20/03 12:30
Nitrogen, Ammonia as N	1.85	mg/L	0.0500	92.5	80	120	8.8	20	
Sample ID: C03010549-009BMS	Matrix Spike								01/20/03 13:21
Nitrogen, Ammonia as N	6.39	mg/L	0.300	114	80	120			
Sample ID: C03010549-009BMSD	Matrix Spike Duplicate								01/20/03 13:23
Nitrogen, Ammonia as N	5.93	mg/L	0.300	105	80	120	7.5	20	
Sample ID: C03010557-006EMS	Matrix Spike								01/20/03 14:08
Nitrogen, Ammonia as N	2.20	mg/L	0.0500	109	80	120			
Sample ID: C03010557-006EMSD	Matrix Spike Duplicate								01/20/03 14:10
Nitrogen, Ammonia as N	2.19	mg/L	0.0500	108	80	120	0.5	20	
Sample ID: C03010582-005DMS	Matrix Spike								01/20/03 15:03
Nitrogen, Ammonia as N	1.96	mg/L	0.0500	98	80	120			
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate								01/20/03 15:05
Nitrogen, Ammonia as N	1.94	mg/L	0.0500	97	80	120	1.0	20	
Sample ID: C03010598-005DMS	Matrix Spike								01/20/03 16:11
Nitrogen, Ammonia as N	3.50	mg/L	0.150	108	80	120			
Sample ID: C03010598-005DMSD	Matrix Spike Duplicate								01/20/03 16:13
Nitrogen, Ammonia as N	3.52	mg/L	0.150	109	80	120	0.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C011603a	
Sample ID: C03010346-001AMS	Matrix Spike							01/16/03 17:49	
Aluminum	0.150	mg/L	0.00100	113	70	130			
Beryllium	0.0424	mg/L	0.00100	84.7	70	130			
Cadmium	0.0520	mg/L	0.00100	104	70	130			
Lead	0.0525	mg/L	0.00100	102	70	130			
Uranium	0.152	mg/L	0.000300	110	70	130			
Vanadium	0.0681	mg/L	0.00100	104	70	130			
Sample ID: C03010346-001AMSD	Matrix Spike Duplicate							01/16/03 17:54	
Aluminum	0.145	mg/L	0.00100	103	70	130	3.2	20	
Beryllium	0.0407	mg/L	0.00100	81.5	70	130	3.9	20	
Cadmium	0.0504	mg/L	0.00100	101	70	130	3.2	20	
Lead	0.0509	mg/L	0.00100	98.7	70	130	3.0	20	
Uranium	0.149	mg/L	0.000300	103	70	130	2.3	20	
Vanadium	0.0673	mg/L	0.00100	103	70	130	1.3	20	
Sample ID: C03010389-014AMS	Matrix Spike							01/16/03 20:16	
Aluminum	0.499	mg/L	0.00100	99.8	70	130			
Beryllium	0.477	mg/L	0.00100	95.4	70	130			
Cadmium	0.462	mg/L	0.00100	92.2	70	130			
Lead	0.532	mg/L	0.00100	106	70	130			
Uranium	0.696	mg/L	0.00100	118	70	130			
Vanadium	0.589	mg/L	0.00100	118	70	130			
Sample ID: C03010389-014AMSD	Matrix Spike Duplicate							01/16/03 20:22	
Aluminum	0.493	mg/L	0.00100	98.7	70	130	1.1	20	
Beryllium	0.443	mg/L	0.00100	88.7	70	130	7.3	20	
Cadmium	0.452	mg/L	0.00100	90.1	70	130	2.3	20	
Lead	0.523	mg/L	0.00100	105	70	130	1.7	20	
Uranium	0.727	mg/L	0.00100	124	70	130	4.4	20	
Vanadium	0.575	mg/L	0.00100	115	70	130	2.3	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: ICPMS1-C012303a
Sample ID: C03010389-012AMS	Matrix Spike								01/24/03 01:26
Cobalt	0.544	mg/L	0.00100	108	70	130			
Manganese	1.04	mg/L	0.00100	108	70	130			
Molybdenum	0.532	mg/L	0.00100	106	70	130			
Nickel	0.521	mg/L	0.00100	101	70	130			
Sample ID: C03010389-012AMSD	Matrix Spike Duplicate								01/24/03 01:31
Cobalt	0.497	mg/L	0.00100	99	70	130	9.1	20	
Manganese	0.971	mg/L	0.00100	94.1	70	130	6.8	20	
Molybdenum	0.487	mg/L	0.00100	97.3	70	130	8.8	20	
Nickel	0.477	mg/L	0.00100	92	70	130	8.8	20	
Sample ID: C03010393-003AMS	Matrix Spike								01/24/03 02:45
Cobalt	0.660	mg/L	0.00100	93.5	70	130			
Molybdenum	0.507	mg/L	0.00100	92.1	70	130			
Nickel	0.656	mg/L	0.00100	89.5	70	130			
Sample ID: C03010393-003AMSD	Matrix Spike Duplicate								01/24/03 02:50
Cobalt	0.673	mg/L	0.00100	96	70	130	1.9	20	
Molybdenum	0.518	mg/L	0.00100	94.4	70	130	2.2	20	
Nickel	0.651	mg/L	0.00100	88.6	70	130	0.7	20	
Sample ID: C03010509-006AMS	Matrix Spike								01/24/03 11:59
Cobalt	0.0488	mg/L	0.00100	97	70	130			
Manganese	0.0864	mg/L	0.00100	96.7	70	130			
Molybdenum	0.0547	mg/L	0.00100	106	70	130			
Nickel	0.0537	mg/L	0.00100	101	70	130			
Sample ID: C03010509-006AMSD	Matrix Spike Duplicate								01/24/03 12:04
Cobalt	0.0471	mg/L	0.00100	93.7	70	130	3.5	20	
Manganese	0.0849	mg/L	0.00100	93.8	70	130	1.7	20	
Molybdenum	0.0528	mg/L	0.00100	102	70	130	3.6	20	
Nickel	0.0496	mg/L	0.00100	92.9	70	130	8.1	20	

Qualifiers: ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-01-14_1_NO3_02	
Sample ID: C03010389-005DMS	Matrix Spike							01/15/03 13:15	
Nitrogen, Nitrate+Nitrite as N	162	mg/L	3.00	90.4	90	110			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/15/03 13:18	
Nitrogen, Nitrate+Nitrite as N	165	mg/L	3.00	93.7	90	110	1.8	10	
Sample ID: C03010389-015DMS	Matrix Spike							01/15/03 13:23	
Nitrogen, Nitrate+Nitrite as N	214	mg/L	3.00	107	90	110			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/15/03 13:25	
Nitrogen, Nitrate+Nitrite as N	215	mg/L	3.00	108	90	110	0.5	10	
Method: E353.2								Batch: A2003-01-16_1_NO3_01	
Sample ID: C03010476-002BMS	Matrix Spike							01/16/03 09:43	
Nitrogen, Nitrate+Nitrite as N	3.27	mg/L	0.100	104	90	110			
Sample ID: C03010476-002BMSD	Matrix Spike Duplicate							01/16/03 09:46	
Nitrogen, Nitrate+Nitrite as N	3.23	mg/L	0.100	102	90	110	1.2	10	
Sample ID: C03010495-003BMS	Matrix Spike							01/16/03 10:11	
Nitrogen, Nitrate+Nitrite as N	3.27	mg/L	0.100	97.5	90	110			
Sample ID: C03010495-003BMSD	Matrix Spike Duplicate							01/16/03 10:13	
Nitrogen, Nitrate+Nitrite as N	3.24	mg/L	0.100	96	90	110	0.9	10	
Method: E624								Batch: R18077	
Sample ID: C03010390-002E	Matrix Spike							01/16/03 02:12	
Chloroform	1270	ug/L	50.0	112	70	130			
Surr: 1,2-Dichlorobenzene-d4			50.0	100	80	120			
Surr: Dibromofluoromethane			50.0	106	70	130			
Surr: p-Bromofluorobenzene			50.0	101	75	125			
Surr: Toluene-d8			50.0	102	80	120			
Sample ID: C03010390-002E	Matrix Spike Duplicate							01/16/03 02:50	
Chloroform	1270	ug/L	50.0	112	70	130	0	20	
Surr: 1,2-Dichlorobenzene-d4			50.0	100	80	120	0	10	
Surr: Dibromofluoromethane			50.0	104	70	130	0	10	
Surr: p-Bromofluorobenzene			50.0	102	75	125	0	10	
Surr: Toluene-d8			50.0	101	80	120	0	10	
Method: E900.1								Batch: R18433	
Sample ID: C03010390-002AMS	Matrix Spike							01/21/03 15:55	
Gross Alpha minus Rn & U	284	pCi/L	1.00	92	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/05/03
Work Order: C03010393

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-17
Sample ID: C03010460-002A	Sample Duplicate								01/26/03 19:20
Radium 226	2.70	pCi/L	0.200				7.1	30	
Radium 226 precision	0.300	±	0						
Sample ID: C03010500-001A	Matrix Spike								01/26/03 21:54
Radium 226	120	pCi/L	0.200	99.3	70	130			
Sample ID: C03010393-001A	Sample Duplicate								01/27/03 18:35
Radium 226	16.0	pCi/L	0.200				9.5	30	
Radium 226 precision	1.40	±	0						
Method: E904.0									Batch: 03228049
Sample ID: C03010512-001A	Matrix Spike								02/04/03 11:37
Radium 228	4.30	pCi/L	1.00	110	70	130			
Sample ID: C03010393-001A	Sample Duplicate								02/04/03 11:38
Radium 228	ND	pCi/L	1.00				0	30	
Method: E907.0									Batch: R18547
Sample ID: C03010598-009AMS	Matrix Spike								01/21/03 10:30
Thorium 230	116	pCi/L	0.200	93	70	130			
Sample ID: C03010598-009ADUP	Sample Duplicate								01/21/03 10:30
Thorium 230	118	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-3
Sample ID: C03010598-005A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-006A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-007A	Matrix Spike								01/25/03 06:43
Lead 210	79	pCi/L	2.7	109	70	130			
Sample ID: C03010598-008A	Matrix Spike								01/25/03 06:43
Lead 210	31	pCi/L	2.7	106	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030120A-SLDS-TDS-W	
Sample ID: C03010582-002BMS	Matrix Spike							01/20/03 11:36	
Solids, Total Dissolved TDS @ 180 C	2070	mg/L	10.0	98.5	90	110			
Sample ID: C03010582-002BMSD	Matrix Spike Duplicate							01/20/03 11:37	
Solids, Total Dissolved TDS @ 180 C	2080	mg/L	10.0	98.9	90	110	0.5	10	
Sample ID: C03010589-009CMS	Matrix Spike							01/20/03 16:41	
Solids, Total Dissolved TDS @ 180 C	4140	mg/L	10.0	103	90	110			
Sample ID: C03010589-009CMSD	Matrix Spike Duplicate							01/20/03 16:42	
Solids, Total Dissolved TDS @ 180 C	4100	mg/L	10.0	101	90	110	0.9	10	
Sample ID: C03010599-005BMS	Matrix Spike							01/20/03 16:53	
Solids, Total Dissolved TDS @ 180 C	8110	mg/L	10.0	103	90	110			
Sample ID: C03010599-005BMSD	Matrix Spike Duplicate							01/20/03 16:54	
Solids, Total Dissolved TDS @ 180 C	8060	mg/L	10.0	101	90	110	0.7	10	
Sample ID: C03010605-001BMS	Matrix Spike							01/20/03 16:59	
Solids, Total Dissolved TDS @ 180 C	2930	mg/L	10.0	101	90	110			
Sample ID: C03010605-001BMSD	Matrix Spike Duplicate							01/20/03 17:00	
Solids, Total Dissolved TDS @ 180 C	2960	mg/L	10.0	102	90	110	0.8	10	
Method: A3114 B								Batch: R18237	
Sample ID: C03010599-001A	Matrix Spike							01/21/03 11:27	
Arsenic-III	0.0560	mg/L	0.00100	105	85	115			
Sample ID: C03010599-001A	Matrix Spike Duplicate							01/21/03 11:30	
Arsenic-III	0.0544	mg/L	0.00100	102	85	115	2.9	10	
Sample ID: C03010599-006A	Matrix Spike							01/21/03 11:51	
Arsenic-III	0.0542	mg/L	0.00100	107	85	115			
Sample ID: C03010599-006A	Matrix Spike Duplicate							01/21/03 11:54	
Arsenic-III	0.0518	mg/L	0.00100	102	85	115	4.5	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R18256
Sample ID: C03010599-001A	Matrix Spike								01/21/03 15:24
Selenium-IV	0.0495	mg/L	0.00100	99	85	115			
Sample ID: C03010599-001A	Matrix Spike Duplicate								01/21/03 15:26
Selenium-IV	0.0506	mg/L	0.00100	101	85	115	2.2	10	
Sample ID: C03010599-006A	Matrix Spike								01/21/03 15:53
Selenium-IV	0.0458	mg/L	0.00100	91.6	85	115			
Sample ID: C03010599-006A	Matrix Spike Duplicate								01/21/03 15:56
Selenium-IV	0.0458	mg/L	0.00100	91.6	85	115	0	10	

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-01-20_1_NH3_01	
Sample ID: C03010389-005DMS	Matrix Spike							01/20/03 10:52	
Nitrogen, Ammonia as N	2.30	mg/L	0.0500	107	80	120			
Sample ID: C03010389-005DMSD	Matrix Spike Duplicate							01/20/03 10:54	
Nitrogen, Ammonia as N	2.34	mg/L	0.0500	109	80	120	1.7	20	
Sample ID: C03010389-015DMS	Matrix Spike							01/20/03 11:24	
Nitrogen, Ammonia as N	2.44	mg/L	0.0500	114	80	120			
Sample ID: C03010389-015DMSD	Matrix Spike Duplicate							01/20/03 11:26	
Nitrogen, Ammonia as N	2.33	mg/L	0.0500	108	80	120	4.6	20	
Sample ID: C03010421-001BMS	Matrix Spike							01/20/03 11:58	
Nitrogen, Ammonia as N	10.5	mg/L	0.600	102	80	120			
Sample ID: C03010421-001BMSD	Matrix Spike Duplicate							01/20/03 11:59	
Nitrogen, Ammonia as N	10.0	mg/L	0.600	97.2	80	120	4.9	20	
Sample ID: C03010509-006DMS	Matrix Spike							01/20/03 12:27	
Nitrogen, Ammonia as N	2.02	mg/L	0.0500	101	80	120			
Sample ID: C03010509-006DMSD	Matrix Spike Duplicate							01/20/03 12:30	
Nitrogen, Ammonia as N	1.85	mg/L	0.0500	92.5	80	120	8.8	20	
Sample ID: C03010549-009BMS	Matrix Spike							01/20/03 13:21	
Nitrogen, Ammonia as N	6.39	mg/L	0.300	114	80	120			
Sample ID: C03010549-009BMSD	Matrix Spike Duplicate							01/20/03 13:23	
Nitrogen, Ammonia as N	5.93	mg/L	0.300	105	80	120	7.5	20	
Sample ID: C03010557-006EMS	Matrix Spike							01/20/03 14:08	
Nitrogen, Ammonia as N	2.20	mg/L	0.0500	109	80	120			
Sample ID: C03010557-006EMSD	Matrix Spike Duplicate							01/20/03 14:10	
Nitrogen, Ammonia as N	2.19	mg/L	0.0500	108	80	120	0.5	20	
Sample ID: C03010582-005DMS	Matrix Spike							01/20/03 15:03	
Nitrogen, Ammonia as N	1.96	mg/L	0.0500	98	80	120			
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate							01/20/03 15:05	
Nitrogen, Ammonia as N	1.94	mg/L	0.0500	97	80	120	1.0	20	
Sample ID: C03010598-005DMS	Matrix Spike							01/20/03 16:11	
Nitrogen, Ammonia as N	3.50	mg/L	0.150	108	80	120			
Sample ID: C03010598-005DMSD	Matrix Spike Duplicate							01/20/03 16:13	
Nitrogen, Ammonia as N	3.52	mg/L	0.150	109	80	120	0.6	20	

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.7									Batch: R18451
Sample ID: C03010598-001AMS1	Matrix Spike								01/28/03 15:47
Calcium	1050	mg/L	1.00	104	80	120			
Magnesium	1150	mg/L	1.00	88.4	80	120			
Potassium	423	mg/L	1.00	82	80	120			
Sodium	558	mg/L	1.00	83.9	80	120			
Sample ID: C03010598-001AMS3	Matrix Spike								01/28/03 15:53
Chloride	851	mg/L	1.00	85.1	80	120			
Sample ID: C03010598-001AMSD1	Matrix Spike Duplicate								01/28/03 15:57
Calcium	1050	mg/L	1.00	104	80	120	0	20	
Magnesium	1150	mg/L	1.00	88	80	120	0.2	20	
Potassium	450	mg/L	1.00	87.5	80	120	6.2	20	
Sodium	542	mg/L	1.00	80.7	80	120	2.9	20	
Sample ID: C03010598-001AMSD3	Matrix Spike Duplicate								01/28/03 16:03
Chloride	887	mg/L	1.00	88.7	80	120	4.1	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010598-006AMS	Matrix Spike							01/29/03 00:23	
Aluminum	1.50	mg/L	0.00100	96	70	130			
Beryllium	0.420	mg/L	0.00100	82.9	70	130			
Cadmium	0.512	mg/L	0.00100	102	70	130			
Cobalt	0.920	mg/L	0.00100	96.8	70	130			
Lead	0.512	mg/L	0.00100	102	70	130			
Molybdenum	0.672	mg/L	0.00100	112	70	130			
Nickel	0.818	mg/L	0.00100	93.4	70	130			
Uranium	0.596	mg/L	0.00100	110	70	130			
Vanadium	0.492	mg/L	0.00100	98.4	70	130			
Sample ID: C03010598-006AMSD	Matrix Spike Duplicate							01/29/03 00:44	
Aluminum	1.49	mg/L	0.00100	94.6	70	130	0.5	20	
Beryllium	0.420	mg/L	0.00100	83	70	130	0	20	
Cadmium	0.488	mg/L	0.00100	97.4	70	130	4.8	20	
Cobalt	0.917	mg/L	0.00100	96.2	70	130	0.4	20	
Lead	0.488	mg/L	0.00100	97.5	70	130	4.8	20	
Manganese	8.20	mg/L	0.00100	123	70	130	3.8	20	
Molybdenum	0.607	mg/L	0.00100	99.4	70	130	10	20	
Nickel	0.837	mg/L	0.00100	97.2	70	130	2.3	20	
Uranium	0.563	mg/L	0.00100	104	70	130	5.7	20	
Vanadium	0.476	mg/L	0.00100	95.2	70	130	3.3	20	
Sample ID: C03010599-007AMS	Matrix Spike							01/29/03 01:58	
Aluminum	0.0558	mg/L	0.00100	101	70	130			
Beryllium	0.0469	mg/L	0.00100	93.8	70	130			
Cadmium	0.0519	mg/L	0.00100	103	70	130			
Cobalt	0.0503	mg/L	0.00100	101	70	130			
Lead	0.0496	mg/L	0.00100	98.5	70	130			
Manganese	0.0482	mg/L	0.00100	95.1	70	130			
Molybdenum	0.0497	mg/L	0.00100	99.4	70	130			
Nickel	0.0475	mg/L	0.00100	94.8	70	130			
Uranium	0.0517	mg/L	0.00100	103	70	130			
Vanadium	0.0474	mg/L	0.00100	94.7	70	130			
Sample ID: C03010599-007AMSD	Matrix Spike Duplicate							01/29/03 02:03	
Aluminum	0.0560	mg/L	0.00100	101	70	130	0.3	20	
Beryllium	0.0489	mg/L	0.00100	97.8	70	130	4.2	20	
Cadmium	0.0515	mg/L	0.00100	102	70	130	0.9	20	
Cobalt	0.0509	mg/L	0.00100	102	70	130	1.2	20	
Lead	0.0500	mg/L	0.00100	99.3	70	130	0.8	20	
Manganese	0.0495	mg/L	0.00100	97.7	70	130	2.6	20	
Molybdenum	0.0505	mg/L	0.00100	101	70	130	1.5	20	
Nickel	0.0491	mg/L	0.00100	98	70	130	3.3	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010599-007AMSD	Matrix Spike Duplicate							01/29/03 02:03	
Uranium	0.0526	mg/L	0.00100	105	70	130	1.6	20	
Vanadium	0.0484	mg/L	0.00100	96.9	70	130	2.3	20	
Sample ID: C03010697-003AMS	Matrix Spike							01/29/03 03:17	
Aluminum	0.0549	mg/L	0.00100	103	70	130			
Beryllium	0.0449	mg/L	0.00100	89.8	70	130			
Cadmium	0.0572	mg/L	0.00100	114	70	130			
Cobalt	0.0559	mg/L	0.00100	109	70	130			
Lead	0.0563	mg/L	0.00100	110	70	130			
Manganese	0.340	mg/L	0.00100	102	70	130			
Molybdenum	0.0616	mg/L	0.00100	121	70	130			
Nickel	0.0488	mg/L	0.00100	88.7	70	130			
Vanadium	0.169	mg/L	0.00100	97.4	70	130			
Se spike addition < 30% of background concentration									
Sample ID: C03010697-003AMSD	Matrix Spike Duplicate							01/29/03 03:22	
Aluminum	0.0529	mg/L	0.00100	98.8	70	130	3.7	20	
Beryllium	0.0436	mg/L	0.00100	87.1	70	130	3.0	20	
Cadmium	0.0527	mg/L	0.00100	105	70	130	8.2	20	
Cobalt	0.0512	mg/L	0.00100	99.5	70	130	8.6	20	
Lead	0.0527	mg/L	0.00100	103	70	130	6.6	20	
Manganese	0.332	mg/L	0.00100	86.6	70	130	2.4	20	
Molybdenum	0.0585	mg/L	0.00100	115	70	130	5.1	20	
Nickel	0.0454	mg/L	0.00100	82	70	130	7.1	20	
Uranium	14.6	mg/L	0.000300	100	70	130	1.2	20	
Vanadium	0.166	mg/L	0.00100	92	70	130	1.6	20	
Se spike addition < 30% of background concentration									
Sample ID: C03010712-007BMS	Matrix Spike							01/29/03 04:36	
Aluminum	0.465	mg/L	0.00100	111	70	130			
Beryllium	0.223	mg/L	0.00100	89.1	70	130			
Cadmium	0.276	mg/L	0.00100	110	70	130			
Cobalt	0.256	mg/L	0.00100	102	70	130			
Lead	0.260	mg/L	0.00100	104	70	130			
Manganese	0.250	mg/L	0.00100	95.1	70	130			
Molybdenum	0.296	mg/L	0.00100	118	70	130			
Nickel	0.230	mg/L	0.00100	91.3	70	130			
Uranium	0.288	mg/L	0.00100	114	70	130			
Vanadium	0.245	mg/L	0.00100	97.4	70	130			
Sample ID: C03010712-007BMSD	Matrix Spike Duplicate							01/29/03 05:45	
Aluminum	0.432	mg/L	0.00100	98.2	70	130	7.4	20	
Beryllium	0.249	mg/L	0.00100	99.4	70	130	11	20	
Cadmium	0.249	mg/L	0.00100	99.6	70	130	10	20	
Cobalt	0.257	mg/L	0.00100	103	70	130	0.2	20	

Qualifiers: ND - Not Detected at the Reporting Limit
S - Spike Recovery outside of recommended recovery limits
R - RPD outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010712-007BMSD	Matrix Spike Duplicate							01/29/03 05:45	
Lead	0.255	mg/L	0.00100	102	70	130	1.7	20	
Manganese	0.262	mg/L	0.00100	99.9	70	130	4.7	20	
Molybdenum	0.258	mg/L	0.00100	103	70	130	14	20	
Nickel	0.256	mg/L	0.00100	102	70	130	11	20	
Uranium	0.260	mg/L	0.00100	103	70	130	10	20	
Vanadium	0.267	mg/L	0.00100	106	70	130	8.6	20	
Sample ID: C03010712-017BMS	Matrix Spike							01/29/03 06:59	
Aluminum	0.256	mg/L	0.00100	100	70	130			
Beryllium	0.218	mg/L	0.00100	87.4	70	130			
Cadmium	0.275	mg/L	0.00100	110	70	130			
Cobalt	0.316	mg/L	0.00100	127	70	130			
Lead	0.280	mg/L	0.00100	112	70	130			
Manganese	0.612	mg/L	0.00100	120	70	130			
Molybdenum	0.305	mg/L	0.00100	121	70	130			
Nickel	0.277	mg/L	0.00100	108	70	130			
Uranium	0.352	mg/L	0.00100	110	70	130			
Vanadium	0.292	mg/L	0.00100	117	70	130			
Sample ID: C03010712-017BMSD	Matrix Spike Duplicate							01/29/03 07:04	
Aluminum	0.221	mg/L	0.00100	86.2	70	130	15	20	
Beryllium	0.193	mg/L	0.00100	77.4	70	130	12	20	
Cadmium	0.268	mg/L	0.00100	107	70	130	2.3	20	
Cobalt	0.309	mg/L	0.00100	124	70	130	2.3	20	
Lead	0.269	mg/L	0.00100	107	70	130	4.1	20	
Manganese	0.604	mg/L	0.00100	117	70	130	1.4	20	
Molybdenum	0.299	mg/L	0.00100	119	70	130	1.8	20	
Nickel	0.272	mg/L	0.00100	106	70	130	1.8	20	
Uranium	0.344	mg/L	0.00100	107	70	130	2.2	20	
Vanadium	0.278	mg/L	0.00100	111	70	130	4.8	20	
Sample ID: C03010712-027BMS	Matrix Spike							01/29/03 08:18	
Aluminum	0.310	mg/L	0.00100	121	70	130			
Beryllium	0.252	mg/L	0.00100	101	70	130			
Cadmium	0.302	mg/L	0.00100	121	70	130			
Cobalt	0.314	mg/L	0.00100	125	70	130			
Lead	0.298	mg/L	0.00100	119	70	130			
Manganese	0.299	mg/L	0.00100	118	70	130			
Molybdenum	0.324	mg/L	0.00100	129	70	130			
Nickel	0.279	mg/L	0.00100	111	70	130			
Uranium	0.308	mg/L	0.00100	123	70	130			
Vanadium	0.314	mg/L	0.00100	124	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: ICPMS1-C012803a	
Sample ID: C03010712-027BMSD	Matrix Spike Duplicate							01/29/03 08:23	
Aluminum	0.262	mg/L	0.00100	103	70	130	17	20	
Beryllium	0.264	mg/L	0.00100	105	70	130	4.6	20	
Cadmium	0.263	mg/L	0.00100	105	70	130	14	20	
Cobalt	0.274	mg/L	0.00100	109	70	130	13	20	
Lead	0.274	mg/L	0.00100	110	70	130	8.2	20	
Manganese	0.274	mg/L	0.00100	109	70	130	8.6	20	
Molybdenum	0.287	mg/L	0.00100	114	70	130	12	20	
Nickel	0.277	mg/L	0.00100	110	70	130	0.8	20	
Uranium	0.285	mg/L	0.00100	113	70	130	7.9	20	
Vanadium	0.298	mg/L	0.00100	118	70	130	5.1	20	
Sample ID: C03010712-037BMS	Matrix Spike							01/29/03 09:37	
Aluminum	0.285	mg/L	0.00100	106	70	130			
Beryllium	0.279	mg/L	0.00100	112	70	130			
Cadmium	0.266	mg/L	0.00100	106	70	130			
Cobalt	0.266	mg/L	0.00100	106	70	130			
Lead	0.273	mg/L	0.00100	109	70	130			
Manganese	0.312	mg/L	0.00100	109	70	130			
Molybdenum	0.268	mg/L	0.00100	107	70	130			
Nickel	0.291	mg/L	0.00100	116	70	130			
Uranium	0.280	mg/L	0.00100	112	70	130			
Vanadium	0.296	mg/L	0.00100	118	70	130			
Method: E353.2								Batch: A2003-01-21_1_NO3_01	
Sample ID: C03010582-005DMSD	Matrix Spike Duplicate							01/22/03 10:28	
Nitrogen, Nitrate+Nitrite as N	2.14	mg/L	0.100	107	90	110	2.8	10	
Sample ID: C03010599-001DMS	Matrix Spike							01/22/03 10:55	
Nitrogen, Nitrate+Nitrite as N	2.07	mg/L	0.100	97	90	110			
Sample ID: C03010599-001DMSD	Matrix Spike Duplicate							01/22/03 10:58	
Nitrogen, Nitrate+Nitrite as N	2.06	mg/L	0.100	96.5	90	110	0.5	10	

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R18260
Sample ID: C03010599-006E	Matrix Spike								01/22/03 05:20
Chloroform	110	ug/L	5.00	110	70	130			
Surr: 1,2-Dichlorobenzene-d4			5.00	98.9	80	120			
Surr: Dibromofluoromethane			5.00	104	70	130			
Surr: p-Bromofluorobenzene			5.00	101	75	125			
Surr: Toluene-d8			5.00	102	80	120			
Sample ID: C03010599-006E	Matrix Spike Duplicate								01/22/03 05:58
Chloroform	115	ug/L	5.00	115	70	130	5.0	20	
Surr: 1,2-Dichlorobenzene-d4			5.00	105	80	120	0	10	
Surr: Dibromofluoromethane			5.00	103	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	104	75	125	0	10	
Surr: Toluene-d8			5.00	103	80	120	0	10	
Method: E900.1									Batch: R18465
Sample ID: C03010531-001ADUP	Sample Duplicate								01/22/03 16:05
Gross Alpha minus Rn & U	1.50	pCi/L	1.00				0	30	
Gross Alpha minus Rn & U Precision	1.00	pCi/L							
Sample ID: C03010531-002AMS	Matrix Spike								01/22/03 16:05
Gross Alpha minus Rn & U	317	pCi/L	1.00	104	70	130			
Method: E903.0									Batch: 03RA-19
Sample ID: C03010531-001A	Sample Duplicate								01/28/03 17:46
Radium 226	1.40	pCi/L	0.200				15	30	
Radium 226 precision	0.300	±	0						
Sample ID: C03010531-002A	Sample Duplicate								01/28/03 19:46
Radium 226	1.10	pCi/L	0.200				8.7	30	
Radium 226 precision	0.200	±	0						
Sample ID: C03010531-003A	Matrix Spike								01/28/03 21:20
Radium 226	200	pCi/L	0.200	98.6	70	130			
Method: E904.0									Batch: 03228055
Sample ID: C03010531-001A	Sample Duplicate								02/06/03 13:43
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010531-002A	Sample Duplicate								02/06/03 13:43
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03010531-004A	Matrix Spike								02/06/03 13:43
Radium 228	7.50	pCi/L	1.00	115	70	130			

Qualifiers: ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 02/11/03
Work Order: C03010598

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: R18547
Sample ID: C03010598-009AMS	Matrix Spike								01/21/03 10:30
Thorium 230	116	pCi/L	0.200	93	70	130			
Sample ID: C03010598-009ADUP	Sample Duplicate								01/21/03 10:30
Thorium 230	118	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-3
Sample ID: C03010598-005A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-006A	Sample Duplicate								01/25/03 06:43
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03010598-007A	Matrix Spike								01/25/03 06:43
Lead 210	79	pCi/L	2.7	109	70	130			
Sample ID: C03010598-008A	Matrix Spike								01/25/03 06:43
Lead 210	31	pCi/L	2.7	106	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: O-041603-2
Sample ID: C19411BLK	Method Blank								04/16/03 12:40
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B									Batch: O-041603-3
Sample ID: C19411BLK	Method Blank								04/16/03 16:01
Bicarbonate as HCO3	ND	mg/L	1.00						

Qualifiers:
A - Analyte concentration greater than three times the spike amount
ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030414A-SLDS-TDS-W	
Sample ID: LCS1_030414A	Laboratory Control Spike							04/14/03 12:11	
Solids, Total Dissolved TDS @ 180 C	996	mg/L	10.0	99.6	90	110			
Sample ID: C03040509-001BMS	Matrix Spike							04/14/03 12:15	
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110			
Sample ID: C03040509-001BMSD	Matrix Spike Duplicate							04/14/03 12:15	
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110	0	10	
Sample ID: C03040535-006BMS	Matrix Spike							04/14/03 12:19	
Solids, Total Dissolved TDS @ 180 C	11700	mg/L	10.0	99.8	90	110			
Sample ID: C03040535-006BMSD	Matrix Spike Duplicate							04/14/03 12:20	
Solids, Total Dissolved TDS @ 180 C	11800	mg/L	10.0	101	90	110	0.3	10	
Sample ID: MBLK1_030414A	Method Blank							04/14/03 12:21	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS2_030414A	Laboratory Control Spike							04/14/03 12:21	
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			
Sample ID: C03040536-003BMS	Matrix Spike							04/14/03 12:25	
Solids, Total Dissolved TDS @ 180 C	7340	mg/L	10.0	102	90	110			
Sample ID: C03040536-003BMSD	Matrix Spike Duplicate							04/14/03 12:25	
Solids, Total Dissolved TDS @ 180 C	7350	mg/L	10.0	102	90	110	0.2	10	
Sample ID: C03040537-002BMS	Matrix Spike							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110			
Sample ID: C03040537-002BMSD	Matrix Spike Duplicate							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110	0	10	
Sample ID: MBLK2_030414A	Method Blank							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030414A	Laboratory Control Spike							04/14/03 12:29	
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			

Qualifiers: A - Analyte concentration greater than three times the spike amount
ND - Not Detected at the Reporting Limit
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20759
Sample ID: MBLK1	Method Blank								04/14/03 16:27
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:00
Arsenic-III	0.0456	mg/L	0.00100	91.2	90	110			
Sample ID: MBLK2	Method Blank								04/14/03 17:09
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/14/03 17:38
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/14/03 17:40
Arsenic-III	0.0487	mg/L	0.00100	97.4	85	115	3.2	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:44
Arsenic-III	0.0489	mg/L	0.00100	97.8	90	110			
Sample ID: MBLK3	Method Blank								04/14/03 17:52
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/14/03 17:59
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/14/03 18:01
Arsenic-III	0.0484	mg/L	0.00100	96.8	85	115	3.9	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 18:04
Arsenic-III	0.0500	mg/L	0.00100	100	90	110			
Sample ID: MBLK4	Method Blank								04/14/03 18:09
Arsenic-III	ND	mg/L	0.00100						

Qualifiers: A - Analyte concentration greater than three times the spike amount
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20796
Sample ID: MBLK1	Method Blank								04/15/03 16:03
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040535-008A	Matrix Spike								04/15/03 16:30
Selenium-IV	0.0313	mg/L	0.00100	104	85	115			
Sample ID: C03040535-008A	Matrix Spike Duplicate								04/15/03 16:32
Selenium-IV	0.0313	mg/L	0.00100	104	85	115	0	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 16:38
Selenium-IV	0.0320	mg/L	0.00100	107	90	110			
Sample ID: MBLK2	Method Blank								04/15/03 16:45
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/15/03 17:10
Selenium-IV	0.0303	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/15/03 17:12
Selenium-IV	0.0304	mg/L	0.00100	101	85	115	0.3	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 17:14
Selenium-IV	0.0308	mg/L	0.00100	103	90	110			
Sample ID: MBLK3	Method Blank								04/15/03 17:51
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/15/03 18:00
Selenium-IV	0.0473	mg/L	0.00100	94.6	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/15/03 18:03
Selenium-IV	0.0482	mg/L	0.00100	96.4	85	115	1.9	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 18:05
Selenium-IV	0.0486	mg/L	0.00100	97.2	90	110			
Sample ID: MBLK4	Method Blank								04/15/03 18:10
Selenium-IV	ND	mg/L	0.00100						

Qualifiers:
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ND - Not Detected at the Reporting Limit
R - RPD outside of recommended recovery limits
S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-14_1_NH3_01	
Sample ID: MBLK-1	Method Blank							04/14/03 10:20	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040366-001AMS	Matrix Spike							04/14/03 10:34	
Nitrogen, Ammonia as N	2.00	mg/L	0.0500	98.5	80	120			
Sample ID: C03040366-001AMSD	Matrix Spike Duplicate							04/14/03 10:37	
Nitrogen, Ammonia as N	1.83	mg/L	0.0500	90	80	120	8.9	20	
Sample ID: MBLK-17	Method Blank							04/14/03 11:13	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040458-001DMS	Matrix Spike							04/14/03 11:25	
Nitrogen, Ammonia as N	1.95	mg/L	0.0500	95.5	80	120			
Sample ID: C03040458-001DMSD	Matrix Spike Duplicate							04/14/03 11:26	
Nitrogen, Ammonia as N	2.08	mg/L	0.0500	102	80	120	6.5	20	
Sample ID: MBLK-32	Method Blank							04/14/03 12:14	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040535-007DMS	Matrix Spike							04/14/03 12:28	
Nitrogen, Ammonia as N	11.4	mg/L	0.300	118	80	120			
Sample ID: C03040535-007DMSD	Matrix Spike Duplicate							04/14/03 12:30	
Nitrogen, Ammonia as N	11.1	mg/L	0.300	112	80	120	2.7	20	
Sample ID: MBLK-48	Method Blank							04/14/03 12:46	
Nitrogen, Ammonia as N	0.0400	mg/L	0.0500						
Sample ID: C03040536-002DMS	Matrix Spike							04/14/03 13:12	
Nitrogen, Ammonia as N	18.8	mg/L	0.600	88.9	80	120			
Sample ID: C03040536-002DMSD	Matrix Spike Duplicate							04/14/03 13:14	
Nitrogen, Ammonia as N	20.6	mg/L	0.600	107	80	120	9.1	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									**Batch: R21128**
Sample ID: C03040459-002AMS	Matrix Spike								04/22/03 16:28
Aluminum	0.0589	mg/L	0.00100	107	70	130			
Beryllium	0.0538	mg/L	0.00100	107	70	130			
Cadmium	0.0564	mg/L	0.00100	113	70	130			
Cobalt	0.0616	mg/L	0.00100	123	70	130			
Lead	0.0595	mg/L	0.00100	118	70	130			
Manganese	0.0774	mg/L	0.00100	116	70	130			
Molybdenum	0.0624	mg/L	0.00100	115	70	130			
Nickel	0.0562	mg/L	0.00100	105	70	130			
Uranium	0.110	mg/L	0.000300	123	70	130			
Vanadium	0.0644	mg/L	0.00100	119	70	130			
Sample ID: C03040459-002AMSD	Matrix Spike Duplicate								04/22/03 16:33
Aluminum	0.0613	mg/L	0.00100	112	70	130	4.0	20	
Beryllium	0.0556	mg/L	0.00100	111	70	130	3.3	20	
Cadmium	0.0552	mg/L	0.00100	110	70	130	2.1	20	
Cobalt	0.0600	mg/L	0.00100	120	70	130	2.5	20	
Lead	0.0591	mg/L	0.00100	118	70	130	0.7	20	
Manganese	0.0773	mg/L	0.00100	116	70	130	0.1	20	
Molybdenum	0.0618	mg/L	0.00100	114	70	130	1.0	20	
Nickel	0.0552	mg/L	0.00100	103	70	130	1.8	20	
Uranium	0.108	mg/L	0.000300	119	70	130	1.9	20	
Vanadium	0.0637	mg/L	0.00100	118	70	130	1.0	20	
Sample ID: C03040535-009AMS	Matrix Spike								04/22/03 22:16
Aluminum	0.236	mg/L	0.00100	94.6	70	130			
Beryllium	0.206	mg/L	0.00100	82.3	70	130			
Cadmium	0.255	mg/L	0.00100	102	70	130			
Lead	0.266	mg/L	0.00100	106	70	130			
Molybdenum	0.283	mg/L	0.00100	113	70	130			
Nickel	0.234	mg/L	0.00100	93.5	70	130			
Uranium	0.395	mg/L	0.00100	120	70	130			
Sample ID: C03040535-009AMSD	Matrix Spike Duplicate								04/22/03 22:21
Aluminum	0.240	mg/L	0.00100	96.2	70	130	1.7	20	
Beryllium	0.213	mg/L	0.00100	85.3	70	130	3.5	20	
Cadmium	0.263	mg/L	0.00100	105	70	130	2.8	20	
Lead	0.271	mg/L	0.00100	109	70	130	2.0	20	
Molybdenum	0.286	mg/L	0.00100	114	70	130	1.2	20	
Nickel	0.246	mg/L	0.00100	98.2	70	130	4.9	20	
Uranium	0.403	mg/L	0.00100	123	70	130	1.8	20	
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Aluminum	0.261	mg/L	0.00100	102	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									**Batch: R21128**
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Beryllium	0.312	mg/L	0.00100	125	70	130			
Cadmium	0.248	mg/L	0.00100	99	70	130			
Cobalt	0.188	mg/L	0.00100	72.3	70	130			
Lead	0.258	mg/L	0.00100	103	70	130			
Manganese	2.05	mg/L	0.00100	80.2	70	130			
Molybdenum	0.448	mg/L	0.00100	109	70	130			
Nickel	0.264	mg/L	0.00100	102	70	130			
Uranium	0.440	mg/L	0.00100	123	70	130			
Vanadium	0.231	mg/L	0.00100	92	70	130			
Sample ID: C03040536-004AMSD	Matrix Spike Duplicate								04/22/03 23:40
Aluminum	0.235	mg/L	0.00100	91.5	70	130	10	20	
Beryllium	0.275	mg/L	0.00100	110	70	130	13	20	
Cadmium	0.242	mg/L	0.00100	96.8	70	130	2.2	20	
Cobalt	0.190	mg/L	0.00100	73.1	70	130	1.0	20	
Lead	0.255	mg/L	0.00100	101	70	130	1.1	20	
Manganese	2.04	mg/L	0.00100	74.2	70	130	0.7	20	
Molybdenum	0.420	mg/L	0.00100	98.2	70	130	6.4	20	
Nickel	0.238	mg/L	0.00100	91.9	70	130	11	20	
Uranium	0.414	mg/L	0.00100	112	70	130	6.2	20	
Vanadium	0.228	mg/L	0.00100	90.9	70	130	1.1	20	
Method: E200.8									**Batch: R21326**
Sample ID: LRB	Method Blank								04/29/03 15:58
Cobalt	ND	mg/L	0.00100						
Manganese	ND	mg/L	0.00100						
Vanadium	ND	mg/L	0.00100						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-04-15_1_NO3_01	
Sample ID: MBLK-1	Method Blank							04/16/03 09:21	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040535-003DMS	Matrix Spike							04/16/03 09:39	
Nitrogen, Nitrate+Nitrite as N	140	mg/L	3.00	103	90	110			
Sample ID: C03040535-003DMSD	Matrix Spike Duplicate							04/16/03 09:41	
Nitrogen, Nitrate+Nitrite as N	136	mg/L	3.00	98.5	90	110	2.9	10	
Sample ID: MBLK-17	Method Blank							04/16/03 10:01	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040535-013DMS	Matrix Spike							04/16/03 10:17	
Nitrogen, Nitrate+Nitrite as N	189	mg/L	3.00	110	90	110			
Sample ID: C03040535-013DMSD	Matrix Spike Duplicate							04/16/03 10:19	
Nitrogen, Nitrate+Nitrite as N	188	mg/L	3.00	108	90	110	0.5	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R20798
Sample ID: LCS Curve 1 @	Laboratory Control Spike								04/14/03 11:30
Chloroform	8.72	ug/L	1.00	87.2	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	98.1	80	120			
Surr: Dibromofluoromethane			1.00	92.1	70	130			
Surr: p-Bromofluorobenzene			1.00	101	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: Method Blank	Method Blank								04/14/03 13:27
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	100	80	120			
Surr: Dibromofluoromethane			1.00	100	70	130			
Surr: p-Bromofluorobenzene			1.00	98.6	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: C03040536-001E	Matrix Spike								04/15/03 01:51
Chloroform	363	ug/L	10.0	110	70	130			
Surr: 1,2-Dichlorobenzene-d4			10.0	101	80	120			
Surr: Dibromofluoromethane			10.0	106	70	130			
Surr: p-Bromofluorobenzene			10.0	99.4	75	125			
Surr: Toluene-d8			10.0	96.4	80	120			
Sample ID: C03040536-001E	Matrix Spike Duplicate								04/15/03 02:30
Chloroform	351	ug/L	10.0	105	70	130	3.2	20	
Surr: 1,2-Dichlorobenzene-d4			10.0	99	80	120	0	10	
Surr: Dibromofluoromethane			10.0	106	70	130	0	10	
Surr: p-Bromofluorobenzene			10.0	97.3	75	125	0	10	
Surr: Toluene-d8			10.0	95.6	80	120	0	10	
Method: E900.1									Batch: R21184
Sample ID: C03040537-001A	Matrix Spike								04/17/03 10:20
Gross Alpha minus Rn & U	21.4	pCi/L	1.00	102	70	130			
Sample ID: C03040537-001A	Matrix Spike Duplicate								04/17/03 10:20
Gross Alpha minus Rn & U	21.5	pCi/L	1.00	102	70	130	0.5	30	
Sample ID: MB-R21184	Method Blank								04/17/03 10:20
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R21184	Laboratory Control Spike								04/17/03 10:20
Gross Alpha minus Rn & U	8.60	pCi/L	1.00	110	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-132
Sample ID: C03040535-002A	Sample Duplicate								04/23/03 16:44
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040535-003A	Matrix Spike								04/23/03 16:44
Radium 226	25.1	pCi/L	0.200	94.8	70	130			
Sample ID: 226	Laboratory Control Spike								04/24/03 05:35
Radium 226	5.80	pCi/L	0.200	74.4	70	130			
Sample ID: MB	Method Blank								04/24/03 05:35
Radium 226	ND	pCi/L	0.200						
Method: E904.0									Batch: 03228236
Sample ID: C03040535-001A	Sample Duplicate								04/29/03 11:34
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03040535-002A	Sample Duplicate								04/29/03 11:34
Radium 228	ND	pCi/L	1.00				0	30	
Sample ID: C03040535-004A	Matrix Spike								04/29/03 11:34
Radium 228	10.4	pCi/L	1.00	82.5	70	130			
Method: E904.0									Batch: 03228273
Sample ID: C03041010-002A	Matrix Spike								05/08/03 12:03
Radium 228	16.0	pCi/L	1.00	85.9	70	130			
Sample ID: C03041010-002A	Matrix Spike Duplicate								05/08/03 12:03
Radium 228	15.5	pCi/L	1.00	82.6	70	130	3.2	30	
Sample ID: MB-R21746	Method Blank								05/07/03 00:00
Radium 228	ND	pCi/L	1.00						
Sample ID: LCS-R21746	Laboratory Control Spike								05/07/03 00:00
Radium 228	15.9	pCi/L	1.00	106	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Alluvium

Report Date: 08/05/03
Work Order: C03040535

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E907.0									Batch: R21285
Sample ID: MB-R21285	Method Blank								04/21/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R21285	Laboratory Control Spike								04/21/03 10:30
Thorium 230	24.4	pCi/L	0.200	97.6	70	130			
Sample ID: C03040535-015AMS	Matrix Spike								04/21/03 10:30
Thorium 230	120	pCi/L	0.200	95.9	70	130			
Sample ID: C03040535-015AMSD	Sample Duplicate								04/21/03 10:30
Thorium 230	126	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-11
Sample ID: 210	Laboratory Control Spike								04/25/03 16:15
Lead 210	32	pCi/L	2.7	112	70	130			
Sample ID: C03040793-005A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-006A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-007A	Matrix Spike								04/25/03 16:15
Lead 210	65	pCi/L	2.7	90.2	70	130			
Sample ID: C03040793-008A	Matrix Spike								04/25/03 16:15
Lead 210	78	pCi/L	2.7	108	70	130			
Sample ID: MB	Method Blank								04/25/03 16:15
Lead 210	ND	pCi/L	2.7						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: O-041703-1
Sample ID: C19411BLK	Method Blank								04/17/03 09:14
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B									Batch: O-041703-2
Sample ID: C19411BLK	Method Blank								04/17/03 11:34
Bicarbonate as HCO3	ND	mg/L	1.00						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030414A-SLDS-TDS-W	
Sample ID: LCS1_030414A	Laboratory Control Spike							04/14/03 12:11	
Solids, Total Dissolved TDS @ 180 C	996	mg/L	10.0	99.6	90	110			
Sample ID: C03040509-001BMS	Matrix Spike							04/14/03 12:15	
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110			
Sample ID: C03040509-001BMSD	Matrix Spike Duplicate							04/14/03 12:15	
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110	0	10	
Sample ID: C03040535-006BMS	Matrix Spike							04/14/03 12:19	
Solids, Total Dissolved TDS @ 180 C	11700	mg/L	10.0	99.8	90	110			
Sample ID: C03040535-006BMSD	Matrix Spike Duplicate							04/14/03 12:20	
Solids, Total Dissolved TDS @ 180 C	11600	mg/L	10.0	101	90	110	0.3	10	
Sample ID: MBLK1_030414A	Method Blank							04/14/03 12:21	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS2_030414A	Laboratory Control Spike							04/14/03 12:21	
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			
Sample ID: C03040536-003BMS	Matrix Spike							04/14/03 12:25	
Solids, Total Dissolved TDS @ 180 C	7340	mg/L	10.0	102	90	110			
Sample ID: C03040536-003BMSD	Matrix Spike Duplicate							04/14/03 12:25	
Solids, Total Dissolved TDS @ 180 C	7350	mg/L	10.0	102	90	110	0.2	10	
Sample ID: C03040537-002BMS	Matrix Spike							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110			
Sample ID: C03040537-002BMSD	Matrix Spike Duplicate							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110	0	10	
Sample ID: MBLK2_030414A	Method Blank							04/14/03 12:28	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030414A	Laboratory Control Spike							04/14/03 12:29	
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20759
Sample ID: MBLK1	Method Blank								04/14/03 16:27
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:00
Arsenic-III	0.0456	mg/L	0.00100	91.2	90	110			
Sample ID: MBLK2	Method Blank								04/14/03 17:09
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/14/03 17:38
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/14/03 17:40
Arsenic-III	0.0487	mg/L	0.00100	97.4	85	115	3.2	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:44
Arsenic-III	0.0489	mg/L	0.00100	97.8	90	110			
Sample ID: MBLK3	Method Blank								04/14/03 17:52
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/14/03 17:59
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/14/03 18:01
Arsenic-III	0.0484	mg/L	0.00100	96.8	85	115	3.9	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 18:04
Arsenic-III	0.0500	mg/L	0.00100	100	90	110			
Sample ID: MBLK4	Method Blank								04/14/03 18:09
Arsenic-III	ND	mg/L	0.00100						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20796
Sample ID: MBLK1	Method Blank								04/15/03 16:03
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040535-008A	Matrix Spike								04/15/03 16:30
Selenium-IV	0.0313	mg/L	0.00100	104	85	115			
Sample ID: C03040535-008A	Matrix Spike Duplicate								04/15/03 16:32
Selenium-IV	0.0313	mg/L	0.00100	104	85	115	0	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 16:38
Selenium-IV	0.0320	mg/L	0.00100	107	90	110			
Sample ID: MBLK2	Method Blank								04/15/03 16:45
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/15/03 17:10
Selenium-IV	0.0303	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/15/03 17:12
Selenium-IV	0.0304	mg/L	0.00100	101	85	115	0.3	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 17:14
Selenium-IV	0.0308	mg/L	0.00100	103	90	110			
Sample ID: MBLK3	Method Blank								04/15/03 17:51
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/15/03 18:00
Selenium-IV	0.0473	mg/L	0.00100	94.6	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/15/03 18:03
Selenium-IV	0.0482	mg/L	0.00100	96.4	85	115	1.9	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 18:05
Selenium-IV	0.0486	mg/L	0.00100	97.2	90	110			
Sample ID: MBLK4	Method Blank								04/15/03 18:10
Selenium-IV	ND	mg/L	0.00100						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-14_1_NH3_01	
Sample ID: MBLK-1	Method Blank							04/14/03 10:20	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040366-001AMS	Matrix Spike							04/14/03 10:34	
Nitrogen, Ammonia as N	2.00	mg/L	0.0500	98.5	80	120			
Sample ID: C03040366-001AMSD	Matrix Spike Duplicate							04/14/03 10:37	
Nitrogen, Ammonia as N	1.83	mg/L	0.0500	90	80	120	8.9	20	
Sample ID: MBLK-17	Method Blank							04/14/03 11:13	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040458-001DMS	Matrix Spike							04/14/03 11:25	
Nitrogen, Ammonia as N	1.95	mg/L	0.0500	95.5	80	120			
Sample ID: C03040458-001DMSD	Matrix Spike Duplicate							04/14/03 11:26	
Nitrogen, Ammonia as N	2.08	mg/L	0.0500	102	80	120	6.5	20	
Sample ID: MBLK-32	Method Blank							04/14/03 12:14	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040535-007DMS	Matrix Spike							04/14/03 12:28	
Nitrogen, Ammonia as N	11.4	mg/L	0.300	118	80	120			
Sample ID: C03040535-007DMSD	Matrix Spike Duplicate							04/14/03 12:30	
Nitrogen, Ammonia as N	11.1	mg/L	0.300	112	80	120	2.7	20	
Sample ID: MBLK-48	Method Blank							04/14/03 12:46	
Nitrogen, Ammonia as N	0.0400	mg/L	0.0500						
Sample ID: C03040536-002DMS	Matrix Spike							04/14/03 13:12	
Nitrogen, Ammonia as N	18.8	mg/L	0.600	88.9	80	120			
Sample ID: C03040536-002DMSD	Matrix Spike Duplicate							04/14/03 13:14	
Nitrogen, Ammonia as N	20.6	mg/L	0.600	107	80	120	9.1	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21128
Sample ID: C03040459-002AMS	Matrix Spike								04/22/03 16:28
Aluminum	0.0589	mg/L	0.00100	107	70	130			
Beryllium	0.0538	mg/L	0.00100	107	70	130			
Cadmium	0.0564	mg/L	0.00100	113	70	130			
Cobalt	0.0616	mg/L	0.00100	123	70	130			
Lead	0.0595	mg/L	0.00100	118	70	130			
Manganese	0.0774	mg/L	0.00100	116	70	130			
Molybdenum	0.0624	mg/L	0.00100	115	70	130			
Nickel	0.0562	mg/L	0.00100	105	70	130			
Uranium	0.110	mg/L	0.000300	123	70	130			
Vanadium	0.0644	mg/L	0.00100	119	70	130			
Sample ID: C03040459-002AMSD	Matrix Spike Duplicate								04/22/03 16:33
Aluminum	0.0613	mg/L	0.00100	112	70	130	4.0	20	
Beryllium	0.0556	mg/L	0.00100	111	70	130	3.3	20	
Cadmium	0.0552	mg/L	0.00100	110	70	130	2.1	20	
Cobalt	0.0600	mg/L	0.00100	120	70	130	2.5	20	
Lead	0.0591	mg/L	0.00100	118	70	130	0.7	20	
Manganese	0.0773	mg/L	0.00100	116	70	130	0.1	20	
Molybdenum	0.0618	mg/L	0.00100	114	70	130	1.0	20	
Nickel	0.0552	mg/L	0.00100	103	70	130	1.8	20	
Uranium	0.108	mg/L	0.000300	119	70	130	1.9	20	
Vanadium	0.0637	mg/L	0.00100	118	70	130	1.0	20	
Sample ID: C03040535-009AMS	Matrix Spike								04/22/03 22:16
Aluminum	0.236	mg/L	0.00100	94.6	70	130			
Beryllium	0.206	mg/L	0.00100	82.3	70	130			
Cadmium	0.255	mg/L	0.00100	102	70	130			
Lead	0.266	mg/L	0.00100	106	70	130			
Molybdenum	0.283	mg/L	0.00100	113	70	130			
Nickel	0.234	mg/L	0.00100	93.5	70	130			
Uranium	0.395	mg/L	0.00100	120	70	130			
Sample ID: C03040535-009AMSD	Matrix Spike Duplicate								04/22/03 22:21
Aluminum	0.240	mg/L	0.00100	96.2	70	130	1.7	20	
Beryllium	0.213	mg/L	0.00100	85.3	70	130	3.5	20	
Cadmium	0.263	mg/L	0.00100	105	70	130	2.8	20	
Lead	0.271	mg/L	0.00100	109	70	130	2.0	20	
Molybdenum	0.286	mg/L	0.00100	114	70	130	1.2	20	
Nickel	0.246	mg/L	0.00100	98.2	70	130	4.9	20	
Uranium	0.403	mg/L	0.00100	123	70	130	1.8	20	
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Aluminum	0.261	mg/L	0.00100	102	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21128
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Beryllium	0.312	mg/L	0.00100	125	70	130			
Cadmium	0.248	mg/L	0.00100	99	70	130			
Cobalt	0.188	mg/L	0.00100	72.3	70	130			
Lead	0.258	mg/L	0.00100	103	70	130			
Manganese	2.05	mg/L	0.00100	80.2	70	130			
Molybdenum	0.448	mg/L	0.00100	109	70	130			
Nickel	0.264	mg/L	0.00100	102	70	130			
Uranium	0.440	mg/L	0.00100	123	70	130			
Vanadium	0.231	mg/L	0.00100	92	70	130			
Sample ID: C03040536-004AMSD	Matrix Spike Duplicate								04/22/03 23:40
Aluminum	0.235	mg/L	0.00100	91.5	70	130	10	20	
Beryllium	0.275	mg/L	0.00100	110	70	130	13	20	
Cadmium	0.242	mg/L	0.00100	96.8	70	130	2.2	20	
Cobalt	0.190	mg/L	0.00100	73.1	70	130	1.0	20	
Lead	0.255	mg/L	0.00100	101	70	130	1.1	20	
Manganese	2.04	mg/L	0.00100	74.2	70	130	0.7	20	
Molybdenum	0.420	mg/L	0.00100	98.2	70	130	6.4	20	
Nickel	0.238	mg/L	0.00100	91.9	70	130	11	20	
Uranium	0.414	mg/L	0.00100	112	70	130	6.2	20	
Vanadium	0.228	mg/L	0.00100	90.9	70	130	1.1	20	
Method: E353.2									Batch: A2003-04-15_1_NO3_02
Sample ID: MBLK-1	Method Blank								04/16/03 11:05
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040550-001AMS	Matrix Spike								04/16/03 11:23
Nitrogen, Nitrate+Nitrite as N	1.98	mg/L	0.100	94.5	90	110			
Sample ID: C03040550-001AMSD	Matrix Spike Duplicate								04/16/03 11:26
Nitrogen, Nitrate+Nitrite as N	2.15	mg/L	0.100	103	90	110	8.2	10	
Sample ID: MBLK-17	Method Blank								04/16/03 11:46
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040561-001AMS	Matrix Spike								04/16/03 12:01
Nitrogen, Nitrate+Nitrite as N	2.46	mg/L	0.100	108	90	110			
Sample ID: C03040561-001AMSD	Matrix Spike Duplicate								04/16/03 12:16
Nitrogen, Nitrate+Nitrite as N	2.37	mg/L	0.100	104	90	110	3.7	10	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R20798
Sample ID: LCS Curve 1 @	Laboratory Control Spike								04/14/03 11:30
Chloroform	8.72	ug/L	1.00	87.2	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	98.1	80	120			
Surr: Dibromofluoromethane			1.00	92.1	70	130			
Surr: p-Bromofluorobenzene			1.00	101	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: Method Blank	Method Blank								04/14/03 13:27
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	100	80	120			
Surr: Dibromofluoromethane			1.00	100	70	130			
Surr: p-Bromofluorobenzene			1.00	98.6	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: C03040536-001E	Matrix Spike								04/15/03 01:51
Chloroform	363	ug/L	10.0	110	70	130			
Surr: 1,2-Dichlorobenzene-d4			10.0	101	80	120			
Surr: Dibromofluoromethane			10.0	106	70	130			
Surr: p-Bromofluorobenzene			10.0	99.4	75	125			
Surr: Toluene-d8			10.0	96.4	80	120			
Sample ID: C03040536-001E	Matrix Spike Duplicate								04/15/03 02:30
Chloroform	351	ug/L	10.0	105	70	130	3.2	20	
Surr: 1,2-Dichlorobenzene-d4			10.0	99	80	120	0	10	
Surr: Dibromofluoromethane			10.0	106	70	130	0	10	
Surr: p-Bromofluorobenzene			10.0	97.3	75	125	0	10	
Surr: Toluene-d8			10.0	95.6	80	120	0	10	
Method: E900.1									Batch: R21184
Sample ID: C03040537-001A	Matrix Spike								04/17/03 10:20
Gross Alpha minus Rn & U	21.4	pCi/L	1.00	102	70	130			
Sample ID: C03040537-001A	Matrix Spike Duplicate								04/17/03 10:20
Gross Alpha minus Rn & U	21.5	pCi/L	1.00	102	70	130	0.5	30	
Sample ID: MB-R21184	Method Blank								04/17/03 10:20
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R21184	Laboratory Control Spike								04/17/03 10:20
Gross Alpha minus Rn & U	8.60	pCi/L	1.00	110	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-135
Sample ID: C03040570-001A	Sample Duplicate								04/26/03 15:50
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040572-001A	Sample Duplicate								04/26/03 17:51
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040573-001A	Matrix Spike								04/26/03 19:52
Radium 226	12.7	pCi/L	0.200	82.6	70	130			
Sample ID: MB	Method Blank								04/27/03 01:54
Radium 226	ND	pCi/L	0.200						
Sample ID: 226	Laboratory Control Spike								04/27/03 03:54
Radium 226	16.7	pCi/L	0.200	106	70	130			
Method: E904.0									Batch: 03228249
Sample ID: C03040575-001A	Matrix Spike								05/02/03 12:20
Radium 228	6.40	pCi/L	1.00	84.7	70	130			
Method: E907.0									Batch: R21016
Sample ID: MB-R21016	Method Blank								04/16/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R21016	Laboratory Control Spike								04/16/03 10:30
Thorium 230	24.8	pCi/L	0.200	99.2	70	130			
Sample ID: C03040537-003AMS	Matrix Spike								04/16/03 10:30
Thorium 230	122	pCi/L	0.200	97.3	70	130			
Sample ID: C03040537-003AMSD	Sample Duplicate								04/16/03 10:30
Thorium 230	135	pCi/L	0.200						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/05/03
Work Order: C03040537

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: NERHL-65-4									Batch: 03PB-11
Sample ID: 210	Laboratory Control Spike								04/25/03 16:15
Lead 210	32	pCi/L	2.7	112	70	130			
Sample ID: C03040793-005A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-006A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-007A	Matrix Spike								04/25/03 16:15
Lead 210	65	pCi/L	2.7	90.2	70	130			
Sample ID: C03040793-008A	Matrix Spike								04/25/03 16:15
Lead 210	78	pCi/L	2.7	108	70	130			
Sample ID: MB	Method Blank								04/25/03 16:15
Lead 210	ND	pCi/L	2.7						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B								Batch: O-042303-2	
Sample ID: C19411BLK	Method Blank							04/23/03 14:44	
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B								Batch: O-042403-2	
Sample ID: C19411BLK	Method Blank							04/24/03 14:22	
Bicarbonate as HCO3	ND	mg/L	1.00						
Sample ID: C03040793-001C	Sample Duplicate							04/24/03 14:27	
Bicarbonate as HCO3	137	mg/L	1.00				7.3	10	
pH	6.05	s.u.	0.0100						
Method: A2540 C								Batch: 030421A-SLDS-TDS-W	
Sample ID: C03040793-004BMS	Matrix Spike							04/21/03 10:28	
Solids, Total Dissolved TDS @ 180 C	7830	mg/L	10.0	101	90	110			
Sample ID: C03040793-004BMSD	Matrix Spike Duplicate							04/21/03 10:28	
Solids, Total Dissolved TDS @ 180 C	7850	mg/L	10.0	102	90	110	0.2	10	
Sample ID: C03040794-006BMS	Matrix Spike							04/21/03 10:34	
Solids, Total Dissolved TDS @ 180 C	8940	mg/L	10.0	105	90	110			
Sample ID: C03040794-006BMSD	Matrix Spike Duplicate							04/21/03 10:35	
Solids, Total Dissolved TDS @ 180 C	8880	mg/L	10.0	103	90	110	0.8	10	
Sample ID: C03040817-001AMS	Matrix Spike							04/21/03 12:53	
Solids, Total Dissolved TDS @ 180 C	15400	mg/L	10.0	100	90	110			
Sample ID: C03040817-001AMSD	Matrix Spike Duplicate							04/21/03 12:53	
Solids, Total Dissolved TDS @ 180 C	15400	mg/L	10.0	100	90	110	0	10	
Sample ID: MBLK2_030421A	Method Blank							04/21/03 12:54	
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030421A	Laboratory Control Spike							04/21/03 12:54	
Solids, Total Dissolved TDS @ 180 C	992	mg/L	10.0	99.2	90	110			

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S - Spike Recovery outside of recommended recovery limits

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20985
Sample ID: MBLK1	Method Blank								04/21/03 13:47
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040794-002A	Matrix Spike								04/21/03 14:49
Arsenic-III	0.0601	mg/L	0.00100	96	85	115			
Sample ID: C03040794-002A	Matrix Spike Duplicate								04/21/03 14:51
Arsenic-III	0.0624	mg/L	0.00100	101	85	115	3.8	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/21/03 14:57
Arsenic-III	0.0508	mg/L	0.00100	102	90	110			
Sample ID: MBLK2	Method Blank								04/21/03 15:07
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040794-008A	Matrix Spike								04/21/03 15:33
Arsenic-III	0.0495	mg/L	0.00100	97.8	85	115			
Sample ID: C03040794-008A	Matrix Spike Duplicate								04/21/03 15:36
Arsenic-III	0.0522	mg/L	0.00100	103	85	115	5.3	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/21/03 15:40
Arsenic-III	0.0525	mg/L	0.00100	105	90	110			
Sample ID: MBLK3	Method Blank								04/21/03 15:48
Arsenic-III	ND	mg/L	0.00100						

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QA/QC Summary Report

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Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R21020
Sample ID: C03040794-002A	Matrix Spike								04/22/03 10:53
Selenium-IV	0.0474	mg/L	0.00100	94.8	85	115			
Sample ID: C03040794-002A	Matrix Spike Duplicate								04/22/03 10:55
Selenium-IV	0.0478	mg/L	0.00100	95.6	85	115	0.8	10	
Sample ID: MBLK2	Method Blank								04/22/03 11:05
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040767-003A	Matrix Spike Duplicate								04/22/03 12:01
Selenium-IV	0.599	mg/L	0.00100	93	85	115	2.6	10	
Sample ID: C03040767-003A	Matrix Spike								04/22/03 12:05
Selenium-IV	0.615	mg/L	0.00100	107	85	115			
Sample ID: C209-57-2	Laboratory Control Spike								04/22/03 12:08
Selenium-IV	0.0464	mg/L	0.00100	92.8	90	110			
Sample ID: MBLK3	Method Blank								04/22/03 12:14
Selenium-IV	ND	mg/L	0.00100						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-21_1_NH3_01	
Sample ID: MBLK-1	Method Blank							04/21/03 11:09	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: MBLK-20	Method Blank							04/21/03 11:47	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040635-001BMS	Matrix Spike							04/21/03 12:19	
Nitrogen, Ammonia as N	2.23	mg/L	0.0500	107	80	120			
Sample ID: C03040635-001BMSD	Matrix Spike Duplicate							04/21/03 12:21	
Nitrogen, Ammonia as N	2.28	mg/L	0.0500	110	80	120	2.2	20	
Sample ID: MBLK-35	Method Blank							04/21/03 12:37	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040670-002CMS	Matrix Spike							04/21/03 12:57	
Nitrogen, Ammonia as N	2.03	mg/L	0.0500	102	80	120			
Sample ID: C03040670-002CMSD	Matrix Spike Duplicate							04/21/03 12:59	
Nitrogen, Ammonia as N	1.99	mg/L	0.0500	99.5	80	120	2.0	20	
Sample ID: MBLK-51	Method Blank							04/21/03 13:15	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040685-005DMS	Matrix Spike							04/21/03 13:27	
Nitrogen, Ammonia as N	2.05	mg/L	0.0500	98.5	80	120			
Sample ID: C03040685-005DMSD	Matrix Spike Duplicate							04/21/03 13:29	
Nitrogen, Ammonia as N	2.21	mg/L	0.0500	106	80	120	7.5	20	
Sample ID: MBLK-66	Method Blank							04/21/03 14:06	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040725-003BMS	Matrix Spike							04/21/03 14:19	
Nitrogen, Ammonia as N	1.98	mg/L	0.0500	91.5	80	120			
Sample ID: C03040725-003BMSD	Matrix Spike Duplicate							04/21/03 14:21	
Nitrogen, Ammonia as N	2.04	mg/L	0.0500	94.5	80	120	3.0	20	
Sample ID: MBLK-82	Method Blank							04/21/03 14:56	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040793-007DMS	Matrix Spike							04/21/03 15:08	
Nitrogen, Ammonia as N	2.85	mg/L	0.0500	113	80	120			
Sample ID: C03040793-007DMSD	Matrix Spike Duplicate							04/21/03 15:10	
Nitrogen, Ammonia as N	2.84	mg/L	0.0500	113	80	120	0.4	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-21_1_NH3_01	
Sample ID: C03040793-007DMSD	Matrix Spike Duplicate							04/21/03 15:10	
Sample ID: MBLK-97	Method Blank							04/21/03 15:26	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040794-008DMSD	Matrix Spike Duplicate							04/21/03 16:04	
Nitrogen, Ammonia as N	4.38	mg/L	0.0600	111	80	120			
Sample ID: C03040794-008DMS	Matrix Spike							04/21/03 16:15	
Nitrogen, Ammonia as N	4.47	mg/L	0.0600	116	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21357
Sample ID: LRB	Method Blank								04/30/03 17:07
Aluminum	0.000182	mg/L	0.00100						
Beryllium	ND	mg/L	0.00100						
Cadmium	ND	mg/L	0.00100						
Cobalt	ND	mg/L	0.00100						
Lead	ND	mg/L	0.00100						
Manganese	ND	mg/L	0.00100						
Molybdenum	ND	mg/L	0.00100						
Nickel	ND	mg/L	0.00100						
Uranium	ND	mg/L	0.00100						
Vanadium	ND	mg/L	0.00100						
Sample ID: C03040708-001AMS	Matrix Spike								04/30/03 19:29
Aluminum	0.244	mg/L	0.00100	97.7	70	130			
Beryllium	0.269	mg/L	0.00100	108	70	130			
Cadmium	0.265	mg/L	0.00100	106	70	130			
Cobalt	0.267	mg/L	0.00100	107	70	130			
Lead	0.266	mg/L	0.00100	106	70	130			
Manganese	0.263	mg/L	0.00100	105	70	130			
Molybdenum	0.253	mg/L	0.00100	101	70	130			
Nickel	0.266	mg/L	0.00100	104	70	130			
Uranium	0.453	mg/L	0.00100	110	70	130			
Vanadium	0.271	mg/L	0.00100	108	70	130			
Sample ID: C03040708-001AMSD	Matrix Spike Duplicate								04/30/03 19:34
Aluminum	0.248	mg/L	0.00100	99.2	70	130	1.6	20	
Beryllium	0.276	mg/L	0.00100	110	70	130	2.5	20	
Cadmium	0.264	mg/L	0.00100	106	70	130	0.1	20	
Cobalt	0.272	mg/L	0.00100	108	70	130	1.8	20	
Lead	0.270	mg/L	0.00100	108	70	130	1.7	20	
Manganese	0.271	mg/L	0.00100	108	70	130	2.8	20	
Molybdenum	0.267	mg/L	0.00100	106	70	130	5.3	20	
Nickel	0.269	mg/L	0.00100	105	70	130	0.9	20	
Uranium	0.461	mg/L	0.00100	113	70	130	1.8	20	
Vanadium	0.273	mg/L	0.00100	109	70	130	0.7	20	
Sample ID: C03040793-006AMS	Matrix Spike								04/30/03 21:04
Aluminum	0.268	mg/L	0.00100	106	70	130			
Beryllium	0.287	mg/L	0.00100	115	70	130			
Cadmium	0.271	mg/L	0.00100	108	70	130			
Cobalt	0.288	mg/L	0.00100	115	70	130			
Lead	0.273	mg/L	0.00100	109	70	130			
Manganese	1.65	mg/L	0.00100	148	70	130			S
Molybdenum	0.298	mg/L	0.00100	119	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8								Batch: R21357	
Sample ID: C03040793-006AMS	Matrix Spike							04/30/03 21:04	
Nickel	0.299	mg/L	0.00100	119	70	130			
Uranium	0.274	mg/L	0.00100	109	70	130			
Vanadium	0.285	mg/L	0.00100	114	70	130			
Mn spike addition <30% of background concentration									
Sample ID: C03040793-006AMSD	Matrix Spike Duplicate							04/30/03 21:09	
Aluminum	0.262	mg/L	0.00100	104	70	130	2.0	20	
Beryllium	0.279	mg/L	0.00100	112	70	130	2.8	20	
Cadmium	0.266	mg/L	0.00100	106	70	130	1.8	20	
Cobalt	0.279	mg/L	0.00100	111	70	130	3.4	20	
Lead	0.268	mg/L	0.00100	107	70	130	2.0	20	
Manganese	1.62	mg/L	0.00100	138	70	130	1.5	20	S
Molybdenum	0.289	mg/L	0.00100	115	70	130	2.9	20	
Nickel	0.288	mg/L	0.00100	114	70	130	3.8	20	
Uranium	0.273	mg/L	0.00100	109	70	130	0.4	20	
Vanadium	0.275	mg/L	0.00100	110	70	130	3.6	20	
Mn spike addition <30% of background concentration									
Method: E353.2								Batch: A2003-04-22_1_NO3_01	
Sample ID: MBLK-1	Method Blank							04/23/03 09:38	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040778-004DMS	Matrix Spike							04/23/03 09:57	
Nitrogen, Nitrate+Nitrite as N	1.96	mg/L	0.100	98	90	110			
Sample ID: C03040778-004DMSD	Matrix Spike Duplicate							04/23/03 09:59	
Nitrogen, Nitrate+Nitrite as N	1.92	mg/L	0.100	96	90	110	2.1	10	
Sample ID: MBLK-17	Method Blank							04/23/03 10:19	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040794-003DMS	Matrix Spike							04/23/03 10:34	
Nitrogen, Nitrate+Nitrite as N	2.19	mg/L	0.100	110	90	110			
Sample ID: C03040794-003DMSD	Matrix Spike Duplicate							04/23/03 10:37	
Nitrogen, Nitrate+Nitrite as N	2.18	mg/L	0.100	109	90	110	0.5	10	

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QA/QC Summary Report

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Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R21050
Sample ID: LCS Curve 1 @	Laboratory Control Spike								04/22/03 11:29
Chloroform	12.1	ug/L	1.00	121	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	99.5	80	120			
Surr: Dibromofluoromethane			1.00	110	70	130			
Surr: p-Bromofluorobenzene			1.00	113	75	125			
Surr: Toluene-d8			1.00	107	80	120			
Sample ID: Method Blank	Method Blank								04/22/03 13:24
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	101	80	120			
Surr: Dibromofluoromethane			1.00	108	70	130			
Surr: p-Bromofluorobenzene			1.00	110	75	125			
Surr: Toluene-d8			1.00	104	80	120			
Sample ID: C03040794-008E	Matrix Spike								04/23/03 00:46
Chloroform	113	ug/L	5.00	113	70	130			
Surr: 1,2-Dichlorobenzene-d4			5.00	99.9	80	120			
Surr: Dibromofluoromethane			5.00	115	70	130			
Surr: p-Bromofluorobenzene			5.00	112	75	125			
Surr: Toluene-d8			5.00	102	80	120			
Sample ID: C03040794-008E	Matrix Spike Duplicate								04/23/03 01:24
Chloroform	117	ug/L	5.00	117	70	130	3.5	20	
Surr: 1,2-Dichlorobenzene-d4			5.00	99.5	80	120	0	10	
Surr: Dibromofluoromethane			5.00	115	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	110	75	125	0	10	
Surr: Toluene-d8			5.00	101	80	120	0	10	
Method: E900.1									Batch: R21210
Sample ID: MB-R21210	Method Blank								04/22/03 09:45
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R21210	Laboratory Control Spike								04/22/03 09:45
Gross Alpha minus Rn & U	206	pCi/L	1.00	106	70	130			
Sample ID: C03040794-007A	Sample Duplicate								04/22/03 09:45
Gross Alpha minus Rn & U	8.80	pCi/L	1.00				7.1	30	
Gross Alpha minus Rn & U Precision (±	1.60	pCi/L							
Sample ID: C03040794-008A	Matrix Spike								04/22/03 09:45
Gross Alpha minus Rn & U	213	pCi/L	1.00	103	70	130			

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QA/QC Summary Report

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Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-142
Sample ID: 226	Laboratory Control Spike								04/30/03 13:50
Radium 226	8.30	pCi/L	0.200	106	70	130			
Sample ID: C03040795-001A	Matrix Spike								04/30/03 13:50
Radium 226	16.9	pCi/L	0.200	105	70	130			
Sample ID: MB	Method Blank								04/30/03 13:50
Radium 226	ND	pCi/L	0.200						
Method: E904.0									Batch: 03228255
Sample ID: C03040795-002A	Matrix Spike								05/08/03 11:36
Radium 228	17.1	pCi/L	1.00	114	70	130			
Sample ID: C03040795-002A	Matrix Spike Duplicate								05/08/03 11:36
Radium 228	16.4	pCi/L	1.00	109	70	130	4.2	30	
Method: E907.0									Batch: R21286
Sample ID: MB-R21286	Method Blank								04/22/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R21286	Laboratory Control Spike								04/22/03 10:30
Thorium 230	24.8	pCi/L	0.200	99.2	70	130			
Sample ID: C03040794-008AMS	Matrix Spike								04/22/03 10:30
Thorium 230	113	pCi/L	0.200	90.2	70	130			
Sample ID: C03040794-008AMSD	Sample Duplicate								04/22/03 10:30
Thorium 230	123	pCi/L	0.200						

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QA/QC Summary Report

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Project: Zone 1

Report Date: 08/14/03
Work Order: C03040793

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: NERHL-65-4									**Batch: 03PB-11**
Sample ID: 210	Laboratory Control Spike								04/25/03 16:15
Lead 210	32	pCi/L	2.7	112	70	130			
Sample ID: C03040793-005A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-006A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-007A	Matrix Spike								04/25/03 16:15
Lead 210	65	pCi/L	2.7	90.2	70	130			
Sample ID: C03040793-008A	Matrix Spike								04/25/03 16:15
Lead 210	78	pCi/L	2.7	108	70	130			
Sample ID: MB	Method Blank								04/25/03 16:15
Lead 210	ND	pCi/L	2.7						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									Batch: O-042403-2
Sample ID: C19411BLK	Method Blank								04/24/03 14:22
Bicarbonate as HCO3	ND	mg/L	1.00						
Sample ID: C03040793-001C	Sample Duplicate								04/24/03 14:27
Bicarbonate as HCO3	137	mg/L	1.00				7.3	10	
pH	6.05	s.u.	0.0100						
Method: A2320 B									Batch: O-042503-1
Sample ID: C19411BLK	Method Blank								04/25/03 09:32
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2540 C									Batch: 030421A-SLDS-TDS-W
Sample ID: C03040793-004BMS	Matrix Spike								04/21/03 10:28
Solids, Total Dissolved TDS @ 180 C	7830	mg/L	10.0	101	90	110			
Sample ID: C03040793-004BMSD	Matrix Spike Duplicate								04/21/03 10:28
Solids, Total Dissolved TDS @ 180 C	7850	mg/L	10.0	102	90	110	0.2	10	
Sample ID: C03040794-006BMS	Matrix Spike								04/21/03 10:34
Solids, Total Dissolved TDS @ 180 C	8940	mg/L	10.0	105	90	110			
Sample ID: C03040794-006BMSD	Matrix Spike Duplicate								04/21/03 10:35
Solids, Total Dissolved TDS @ 180 C	8880	mg/L	10.0	103	90	110	0.8	10	
Sample ID: C03040817-001AMS	Matrix Spike								04/21/03 12:53
Solids, Total Dissolved TDS @ 180 C	15400	mg/L	10.0	100	90	110			
Sample ID: C03040817-001AMSD	Matrix Spike Duplicate								04/21/03 12:53
Solids, Total Dissolved TDS @ 180 C	15400	mg/L	10.0	100	90	110	0	10	
Sample ID: MBLK2_030421A	Method Blank								04/21/03 12:54
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030421A	Laboratory Control Spike								04/21/03 12:54
Solids, Total Dissolved TDS @ 180 C	992	mg/L	10.0	99.2	90	110			

Qualifiers:
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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20985
Sample ID: MBLK1	Method Blank								04/21/03 13:47
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040794-002A	Matrix Spike								04/21/03 14:49
Arsenic-III	0.0601	mg/L	0.00100	96	85	115			
Sample ID: C03040794-002A	Matrix Spike Duplicate								04/21/03 14:51
Arsenic-III	0.0624	mg/L	0.00100	101	85	115	3.8	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/21/03 14:57
Arsenic-III	0.0508	mg/L	0.00100	102	90	110			
Sample ID: MBLK2	Method Blank								04/21/03 15:07
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040794-008A	Matrix Spike								04/21/03 15:33
Arsenic-III	0.0495	mg/L	0.00100	97.8	85	115			
Sample ID: C03040794-008A	Matrix Spike Duplicate								04/21/03 15:36
Arsenic-III	0.0522	mg/L	0.00100	103	85	115	5.3	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/21/03 15:40
Arsenic-III	0.0525	mg/L	0.00100	105	90	110			
Sample ID: MBLK3	Method Blank								04/21/03 15:48
Arsenic-III	ND	mg/L	0.00100						

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QA/QC Summary Report

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R21020
Sample ID: C03040794-002A	Matrix Spike								04/22/03 10:53
Selenium-IV	0.0474	mg/L	0.00100	94.8	85	115			
Sample ID: C03040794-002A	Matrix Spike Duplicate								04/22/03 10:55
Selenium-IV	0.0478	mg/L	0.00100	95.6	85	115	0.8	10	
Sample ID: MBLK2	Method Blank								04/22/03 11:05
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040767-003A	Matrix Spike Duplicate								04/22/03 12:01
Selenium-IV	0.599	mg/L	0.00100	93	85	115	2.6	10	
Sample ID: C03040767-003A	Matrix Spike								04/22/03 12:05
Selenium-IV	0.615	mg/L	0.00100	107	85	115			
Sample ID: C209-57-2	Laboratory Control Spike								04/22/03 12:08
Selenium-IV	0.0464	mg/L	0.00100	92.8	90	110			
Sample ID: MBLK3	Method Blank								04/22/03 12:14
Selenium-IV	ND	mg/L	0.00100						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-21_1_NH3_01	
Sample ID: MBLK-1	Method Blank							04/21/03 11:09	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: MBLK-20	Method Blank							04/21/03 11:47	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040635-001BMS	Matrix Spike							04/21/03 12:19	
Nitrogen, Ammonia as N	2.23	mg/L	0.0500	107	80	120			
Sample ID: C03040635-001BMSD	Matrix Spike Duplicate							04/21/03 12:21	
Nitrogen, Ammonia as N	2.28	mg/L	0.0500	110	80	120	2.2	20	
Sample ID: MBLK-35	Method Blank							04/21/03 12:37	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040670-002CMS	Matrix Spike							04/21/03 12:57	
Nitrogen, Ammonia as N	2.03	mg/L	0.0500	102	80	120			
Sample ID: C03040670-002CMSD	Matrix Spike Duplicate							04/21/03 12:59	
Nitrogen, Ammonia as N	1.99	mg/L	0.0500	99.5	80	120	2.0	20	
Sample ID: MBLK-51	Method Blank							04/21/03 13:15	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040685-005DMS	Matrix Spike							04/21/03 13:27	
Nitrogen, Ammonia as N	2.05	mg/L	0.0500	98.5	80	120			
Sample ID: C03040685-005DMSD	Matrix Spike Duplicate							04/21/03 13:29	
Nitrogen, Ammonia as N	2.21	mg/L	0.0500	106	80	120	7.5	20	
Sample ID: MBLK-66	Method Blank							04/21/03 14:06	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040725-003BMS	Matrix Spike							04/21/03 14:19	
Nitrogen, Ammonia as N	1.98	mg/L	0.0500	91.5	80	120			
Sample ID: C03040725-003BMSD	Matrix Spike Duplicate							04/21/03 14:21	
Nitrogen, Ammonia as N	2.04	mg/L	0.0500	94.5	80	120	3.0	20	
Sample ID: MBLK-82	Method Blank							04/21/03 14:56	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040793-007DMS	Matrix Spike							04/21/03 15:08	
Nitrogen, Ammonia as N	2.85	mg/L	0.0500	113	80	120			
Sample ID: C03040793-007DMSD	Matrix Spike Duplicate							04/21/03 15:10	
Nitrogen, Ammonia as N	2.84	mg/L	0.0500	113	80	120	0.4	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-21_1_NH3_01	
Sample ID: C03040793-007DMSD	Matrix Spike Duplicate							04/21/03 15:10	
Sample ID: MBLK-97	Method Blank							04/21/03 15:26	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040794-008DMSD	Matrix Spike Duplicate							04/21/03 16:04	
Nitrogen, Ammonia as N	4.38	mg/L	0.0600	111	80	120			
Sample ID: C03040794-008DMS	Matrix Spike							04/21/03 16:15	
Nitrogen, Ammonia as N	4.47	mg/L	0.0600	116	80	120			

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21378
Sample ID: C03040794-008AMS	Matrix Spike								04/30/03 23:10
Aluminum	1.25	mg/L	0.00100	104	70	130			
Beryllium	0.236	mg/L	0.00100	93.2	70	130			
Cadmium	0.257	mg/L	0.00100	103	70	130			
Cobalt	0.532	mg/L	0.00100	96.6	70	130			
Lead	0.261	mg/L	0.00100	103	70	130			
Manganese	8.64	mg/L	0.00100	122	70	130			
Molybdenum	0.257	mg/L	0.00100	99.3	70	130			
Nickel	0.449	mg/L	0.00100	92.4	70	130			
Uranium	0.286	mg/L	0.00100	108	70	130			
Vanadium	0.259	mg/L	0.00100	104	70	130			
Sample ID: C03040794-008AMSD	Matrix Spike Duplicate								04/30/03 23:15
Aluminum	1.27	mg/L	0.00100	110	70	130	1.2	20	
Beryllium	0.238	mg/L	0.00100	94	70	130	0.9	20	
Cadmium	0.259	mg/L	0.00100	104	70	130	0.7	20	
Cobalt	0.531	mg/L	0.00100	96.2	70	130	0.2	20	
Lead	0.270	mg/L	0.00100	107	70	130	3.4	20	
Manganese	8.56	mg/L	0.00100	90	70	130	0.9	20	
Molybdenum	0.262	mg/L	0.00100	101	70	130	2.0	20	
Nickel	0.463	mg/L	0.00100	98.1	70	130	3.1	20	
Uranium	0.295	mg/L	0.00100	112	70	130	3.2	20	
Vanadium	0.263	mg/L	0.00100	105	70	130	1.2	20	
Sample ID: C03040907-006AMS	Matrix Spike								05/01/03 04:11
Aluminum	4.89	mg/L	0.0101	96.8	70	130			
Beryllium	5.29	mg/L	0.00303	105	70	130			
Cadmium	5.31	mg/L	0.00808	105	70	130			
Cobalt	5.16	mg/L	0.00606	102	70	130			
Lead	5.31	mg/L	0.00303	105	70	130			
Manganese	5.23	mg/L	0.00404	104	70	130			
Nickel	5.17	mg/L	0.00505	102	70	130			
Vanadium	5.77	mg/L	0.00606	108	70	130			
Mo & U spike addition <30% of background concentration									
Sample ID: C03040907-006AMSD	Matrix Spike Duplicate								05/01/03 04:17
Aluminum	4.89	mg/L	0.0101	96.9	70	130	0.1	20	
Beryllium	5.24	mg/L	0.00303	104	70	130	0.8	20	
Cadmium	5.18	mg/L	0.00808	102	70	130	2.6	20	
Cobalt	5.08	mg/L	0.00606	101	70	130	1.6	20	
Lead	5.19	mg/L	0.00303	103	70	130	2.3	20	
Manganese	5.21	mg/L	0.00404	103	70	130	0.3	20	
Molybdenum	64.2	mg/L	0.00100	72.8	70	130	6.3	20	
Nickel	5.08	mg/L	0.00505	100	70	130	1.7	20	

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21378
Sample ID: C03040907-006AMSD	Matrix Spike Duplicate								05/01/03 04:17
Uranium	44.6	mg/L	0.00404	106	70	130	4.4	20	
Vanadium	5.74	mg/L	0.00606	107	70	130	0.6	20	
Sample ID: C03040933-001CMS	Matrix Spike								05/01/03 04:59
Aluminum	0.246	mg/L	0.00100	75.4	70	130			
Beryllium	0.252	mg/L	0.00100	101	70	130			
Cadmium	0.230	mg/L	0.00100	92	70	130			
Cobalt	0.247	mg/L	0.00100	98.7	70	130			
Lead	0.237	mg/L	0.00100	94.7	70	130			
Manganese	0.273	mg/L	0.00100	97.7	70	130			
Molybdenum	0.237	mg/L	0.00100	94	70	130			
Nickel	0.248	mg/L	0.00100	99	70	130			
Uranium	0.222	mg/L	0.00100	87.2	70	130			
Vanadium	0.262	mg/L	0.00100	101	70	130			
Sample ID: C03040933-001CMSD	Matrix Spike Duplicate								05/01/03 05:04
Aluminum	0.248	mg/L	0.00100	76.2	70	130	0.7	20	
Beryllium	0.256	mg/L	0.00100	103	70	130	1.7	20	
Cadmium	0.241	mg/L	0.00100	96.2	70	130	4.5	20	
Cobalt	0.255	mg/L	0.00100	102	70	130	3.1	20	
Lead	0.242	mg/L	0.00100	96.5	70	130	1.9	20	
Manganese	0.264	mg/L	0.00100	94.1	70	130	3.4	20	
Molybdenum	0.237	mg/L	0.00100	94	70	130	0	20	
Nickel	0.261	mg/L	0.00100	104	70	130	5.0	20	
Uranium	0.225	mg/L	0.00100	88.5	70	130	1.5	20	
Vanadium	0.266	mg/L	0.00100	103	70	130	1.8	20	

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QA/QC Summary Report

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Project: Zone 3

Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-04-22_1_NO3_01	
Sample ID: MBLK-1	Method Blank							04/23/03 09:38	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040778-004DMS	Matrix Spike							04/23/03 09:57	
Nitrogen, Nitrate+Nitrite as N	1.96	mg/L	0.100	98	90	110			
Sample ID: C03040778-004DMSD	Matrix Spike Duplicate							04/23/03 09:59	
Nitrogen, Nitrate+Nitrite as N	1.92	mg/L	0.100	96	90	110	2.1	10	
Sample ID: MBLK-17	Method Blank							04/23/03 10:19	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040794-003DMS	Matrix Spike							04/23/03 10:34	
Nitrogen, Nitrate+Nitrite as N	2.19	mg/L	0.100	110	90	110			
Sample ID: C03040794-003DMSD	Matrix Spike Duplicate							04/23/03 10:37	
Nitrogen, Nitrate+Nitrite as N	2.18	mg/L	0.100	109	90	110	0.5	10	

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Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R21050
Sample ID: LCS Curve 1 @	Laboratory Control Spike								04/22/03 11:29
Chloroform	12.1	ug/L	1.00	121	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	99.5	80	120			
Surr: Dibromofluoromethane			1.00	110	70	130			
Surr: p-Bromofluorobenzene			1.00	113	75	125			
Surr: Toluene-d8			1.00	107	80	120			
Sample ID: Method Blank	Method Blank								04/22/03 13:24
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	101	80	120			
Surr: Dibromofluoromethane			1.00	108	70	130			
Surr: p-Bromofluorobenzene			1.00	110	75	125			
Surr: Toluene-d8			1.00	104	80	120			
Sample ID: C03040794-008E	Matrix Spike								04/23/03 00:46
Chloroform	113	ug/L	5.00	113	70	130			
Surr: 1,2-Dichlorobenzene-d4			5.00	99.9	80	120			
Surr: Dibromofluoromethane			5.00	115	70	130			
Surr: p-Bromofluorobenzene			5.00	112	75	125			
Surr: Toluene-d8			5.00	102	80	120			
Sample ID: C03040794-008E	Matrix Spike Duplicate								04/23/03 01:24
Chloroform	117	ug/L	5.00	117	70	130	3.5	20	
Surr: 1,2-Dichlorobenzene-d4			5.00	99.5	80	120	0	10	
Surr: Dibromofluoromethane			5.00	115	70	130	0	10	
Surr: p-Bromofluorobenzene			5.00	110	75	125	0	10	
Surr: Toluene-d8			5.00	101	80	120	0	10	
Method: E900.1									Batch: R21210
Sample ID: MB-R21210	Method Blank								04/22/03 09:45
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R21210	Laboratory Control Spike								04/22/03 09:45
Gross Alpha minus Rn & U	206	pCi/L	1.00	106	70	130			
Sample ID: C03040794-007A	Sample Duplicate								04/22/03 09:45
Gross Alpha minus Rn & U	8.80	pCi/L	1.00				7.1	30	
Gross Alpha minus Rn & U Precision (±	1.60	pCi/L							
Sample ID: C03040794-008A	Matrix Spike								04/22/03 09:45
Gross Alpha minus Rn & U	213	pCi/L	1.00	103	70	130			

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 08/05/03
Work Order: C03040794

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-143
Sample ID: C03040812-001A	Sample Duplicate								04/30/03 15:32
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040812-002A	Sample Duplicate								04/30/03 15:32
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040812-003A	Matrix Spike								04/30/03 15:32
Radium 226	16.1	pCi/L	0.200	103	70	130			
Sample ID: MB	Method Blank								04/30/03 15:32
Radium 226	ND	pCi/L	0.200						
Sample ID: 226	Laboratory Control Spike								04/30/03 17:18
Radium 226	8.10	pCi/L	0.200	104	70	130			
Method: E907.0									Batch: R21286
Sample ID: MB-R21286	Method Blank								04/22/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R21286	Laboratory Control Spike								04/22/03 10:30
Thorium 230	24.8	pCi/L	0.200	99.2	70	130			
Sample ID: C03040794-008AMS	Matrix Spike								04/22/03 10:30
Thorium 230	113	pCi/L	0.200	90.2	70	130			
Sample ID: C03040794-008AMSD	Sample Duplicate								04/22/03 10:30
Thorium 230	123	pCi/L	0.200						
Method: NERHL-65-4									Batch: 03PB-12
Sample ID: 210	Laboratory Control Spike								05/03/03 00:21
Lead 210	33	pCi/L	2.7	113	70	130			
Sample ID: C03040794-006A	Sample Duplicate								05/03/03 00:21
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040794-007A	Matrix Spike								05/03/03 00:21
Lead 210	67	pCi/L	2.7	93.7	70	130			
Sample ID: MB	Method Blank								05/03/03 00:21
Lead 210	ND	pCi/L	2.7						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/14/03
Work Order: C03040536

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2320 B									**Batch: O-041603-3**
Sample ID: C19411BLK	Method Blank								04/16/03 16:01
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B									**Batch: O-041703-1**
Sample ID: C19411BLK	Method Blank								04/17/03 09:14
Bicarbonate as HCO3	ND	mg/L	1.00						
Method: A2320 B									**Batch: O-041703-2**
Sample ID: C19411BLK	Method Blank								04/17/03 11:34
Bicarbonate as HCO3	ND	mg/L	1.00						

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/14/03
Work Order: C03040536

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A2540 C								Batch: 030414A-SLDS-TDS-W	
Sample ID: LCS1_030414A	Laboratory Control Spike								04/14/03 12:11
Solids, Total Dissolved TDS @ 180 C	996	mg/L	10.0	99.6	90	110			
Sample ID: C03040509-001BMS	Matrix Spike								04/14/03 12:15
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110			
Sample ID: C03040509-001BMSD	Matrix Spike Duplicate								04/14/03 12:15
Solids, Total Dissolved TDS @ 180 C	2580	mg/L	10.0	100	90	110	0	10	
Sample ID: C03040535-006BMS	Matrix Spike								04/14/03 12:19
Solids, Total Dissolved TDS @ 180 C	11700	mg/L	10.0	99.8	90	110			
Sample ID: C03040535-006BMSD	Matrix Spike Duplicate								04/14/03 12:20
Solids, Total Dissolved TDS @ 180 C	11800	mg/L	10.0	101	90	110	0.3	10	
Sample ID: MBLK1_030414A	Method Blank								04/14/03 12:21
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS2_030414A	Laboratory Control Spike								04/14/03 12:21
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			
Sample ID: C03040536-003BMS	Matrix Spike								04/14/03 12:25
Solids, Total Dissolved TDS @ 180 C	7340	mg/L	10.0	102	90	110			
Sample ID: C03040536-003BMSD	Matrix Spike Duplicate								04/14/03 12:25
Solids, Total Dissolved TDS @ 180 C	7350	mg/L	10.0	102	90	110	0.2	10	
Sample ID: C03040537-002BMS	Matrix Spike								04/14/03 12:28
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110			
Sample ID: C03040537-002BMSD	Matrix Spike Duplicate								04/14/03 12:28
Solids, Total Dissolved TDS @ 180 C	12300	mg/L	10.0	102	90	110	0	10	
Sample ID: MBLK2_030414A	Method Blank								04/14/03 12:28
Solids, Total Dissolved TDS @ 180 C	ND	mg/L	10.0						
Sample ID: LCS3_030414A	Laboratory Control Spike								04/14/03 12:29
Solids, Total Dissolved TDS @ 180 C	1010	mg/L	10.0	101	90	110			

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QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/14/03
Work Order: C03040536

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20759
Sample ID: MBLK1	Method Blank								04/14/03 16:27
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:00
Arsenic-III	0.0456	mg/L	0.00100	91.2	90	110			
Sample ID: MBLK2	Method Blank								04/14/03 17:09
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/14/03 17:38
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/14/03 17:40
Arsenic-III	0.0487	mg/L	0.00100	97.4	85	115	3.2	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 17:44
Arsenic-III	0.0489	mg/L	0.00100	97.8	90	110			
Sample ID: MBLK3	Method Blank								04/14/03 17:52
Arsenic-III	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/14/03 17:59
Arsenic-III	0.0503	mg/L	0.00100	101	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/14/03 18:01
Arsenic-III	0.0484	mg/L	0.00100	96.8	85	115	3.9	10	
Sample ID: C209-57-2	Laboratory Control Spike								04/14/03 18:04
Arsenic-III	0.0500	mg/L	0.00100	100	90	110			
Sample ID: MBLK4	Method Blank								04/14/03 18:09
Arsenic-III	ND	mg/L	0.00100						

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QA/QC Summary Report

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A3114 B									Batch: R20796
Sample ID: MBLK1	Method Blank								04/15/03 16:03
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040535-008A	Matrix Spike								04/15/03 16:30
Selenium-IV	0.0313	mg/L	0.00100	104	85	115			
Sample ID: C03040535-008A	Matrix Spike Duplicate								04/15/03 16:32
Selenium-IV	0.0313	mg/L	0.00100	104	85	115	0	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 16:38
Selenium-IV	0.0320	mg/L	0.00100	107	90	110			
Sample ID: MBLK2	Method Blank								04/15/03 16:45
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040536-004A	Matrix Spike								04/15/03 17:10
Selenium-IV	0.0303	mg/L	0.00100	101	85	115			
Sample ID: C03040536-004A	Matrix Spike Duplicate								04/15/03 17:12
Selenium-IV	0.0304	mg/L	0.00100	101	85	115	0.3	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 17:14
Selenium-IV	0.0308	mg/L	0.00100	103	90	110			
Sample ID: MBLK3	Method Blank								04/15/03 17:51
Selenium-IV	ND	mg/L	0.00100						
Sample ID: C03040537-002A	Matrix Spike								04/15/03 18:00
Selenium-IV	0.0473	mg/L	0.00100	94.6	85	115			
Sample ID: C03040537-002A	Matrix Spike Duplicate								04/15/03 18:03
Selenium-IV	0.0482	mg/L	0.00100	96.4	85	115	1.9	10	
Sample ID: C209-57-3	Laboratory Control Spike								04/15/03 18:05
Selenium-IV	0.0486	mg/L	0.00100	97.2	90	110			
Sample ID: MBLK4	Method Blank								04/15/03 18:10
Selenium-IV	ND	mg/L	0.00100						

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QA/QC Summary Report

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: A4500-NH3 G								Batch: A2003-04-14_1_NH3_01	
Sample ID: MBLK-1	Method Blank							04/14/03 10:20	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040366-001AMS	Matrix Spike							04/14/03 10:34	
Nitrogen, Ammonia as N	2.00	mg/L	0.0500	98.5	80	120			
Sample ID: C03040366-001AMSD	Matrix Spike Duplicate							04/14/03 10:37	
Nitrogen, Ammonia as N	1.83	mg/L	0.0500	90	80	120	8.9	20	
Sample ID: MBLK-17	Method Blank							04/14/03 11:13	
Nitrogen, Ammonia as N	0.0300	mg/L	0.0500						
Sample ID: C03040458-001DMS	Matrix Spike							04/14/03 11:25	
Nitrogen, Ammonia as N	1.95	mg/L	0.0500	95.5	80	120			
Sample ID: C03040458-001DMSD	Matrix Spike Duplicate							04/14/03 11:26	
Nitrogen, Ammonia as N	2.08	mg/L	0.0500	102	80	120	6.5	20	
Sample ID: MBLK-32	Method Blank							04/14/03 12:14	
Nitrogen, Ammonia as N	ND	mg/L	0.0500						
Sample ID: C03040535-007DMS	Matrix Spike							04/14/03 12:28	
Nitrogen, Ammonia as N	11.4	mg/L	0.300	118	80	120			
Sample ID: C03040535-007DMSD	Matrix Spike Duplicate							04/14/03 12:30	
Nitrogen, Ammonia as N	11.1	mg/L	0.300	112	80	120	2.7	20	
Sample ID: MBLK-48	Method Blank							04/14/03 12:46	
Nitrogen, Ammonia as N	0.0400	mg/L	0.0500						
Sample ID: C03040536-002DMS	Matrix Spike							04/14/03 13:12	
Nitrogen, Ammonia as N	18.8	mg/L	0.600	88.9	80	120			
Sample ID: C03040536-002DMSD	Matrix Spike Duplicate							04/14/03 13:14	
Nitrogen, Ammonia as N	20.6	mg/L	0.600	107	80	120	9.1	20	

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QA/QC Summary Report

Client: United Nuclear Corp
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Report Date: 08/14/03
Work Order: C03040536

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21128
Sample ID: C03040459-002AMS	Matrix Spike								04/22/03 16:28
Aluminum	0.0589	mg/L	0.00100	107	70	130			
Beryllium	0.0538	mg/L	0.00100	107	70	130			
Cadmium	0.0564	mg/L	0.00100	113	70	130			
Cobalt	0.0616	mg/L	0.00100	123	70	130			
Lead	0.0595	mg/L	0.00100	118	70	130			
Manganese	0.0774	mg/L	0.00100	116	70	130			
Molybdenum	0.0624	mg/L	0.00100	115	70	130			
Nickel	0.0562	mg/L	0.00100	105	70	130			
Uranium	0.110	mg/L	0.000300	123	70	130			
Vanadium	0.0644	mg/L	0.00100	119	70	130			
Sample ID: C03040459-002AMSD	Matrix Spike Duplicate								04/22/03 16:33
Aluminum	0.0613	mg/L	0.00100	112	70	130	4.0	20	
Beryllium	0.0556	mg/L	0.00100	111	70	130	3.3	20	
Cadmium	0.0552	mg/L	0.00100	110	70	130	2.1	20	
Cobalt	0.0600	mg/L	0.00100	120	70	130	2.5	20	
Lead	0.0591	mg/L	0.00100	118	70	130	0.7	20	
Manganese	0.0773	mg/L	0.00100	116	70	130	0.1	20	
Molybdenum	0.0618	mg/L	0.00100	114	70	130	1.0	20	
Nickel	0.0552	mg/L	0.00100	103	70	130	1.8	20	
Uranium	0.108	mg/L	0.000300	119	70	130	1.9	20	
Vanadium	0.0637	mg/L	0.00100	118	70	130	1.0	20	
Sample ID: C03040535-009AMS	Matrix Spike								04/22/03 22:16
Aluminum	0.236	mg/L	0.00100	94.6	70	130			
Beryllium	0.206	mg/L	0.00100	82.3	70	130			
Cadmium	0.255	mg/L	0.00100	102	70	130			
Lead	0.266	mg/L	0.00100	106	70	130			
Molybdenum	0.283	mg/L	0.00100	113	70	130			
Nickel	0.234	mg/L	0.00100	93.5	70	130			
Uranium	0.395	mg/L	0.00100	120	70	130			
Sample ID: C03040535-009AMSD	Matrix Spike Duplicate								04/22/03 22:21
Aluminum	0.240	mg/L	0.00100	96.2	70	130	1.7	20	
Beryllium	0.213	mg/L	0.00100	85.3	70	130	3.5	20	
Cadmium	0.263	mg/L	0.00100	105	70	130	2.8	20	
Lead	0.271	mg/L	0.00100	109	70	130	2.0	20	
Molybdenum	0.286	mg/L	0.00100	114	70	130	1.2	20	
Nickel	0.246	mg/L	0.00100	98.2	70	130	4.9	20	
Uranium	0.403	mg/L	0.00100	123	70	130	1.8	20	
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Aluminum	0.261	mg/L	0.00100	102	70	130			

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QA/QC Summary Report

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E200.8									Batch: R21128
Sample ID: C03040536-004AMS	Matrix Spike								04/22/03 23:35
Beryllium	0.312	mg/L	0.00100	125	70	130			
Cadmium	0.248	mg/L	0.00100	99	70	130			
Cobalt	0.188	mg/L	0.00100	72.3	70	130			
Lead	0.258	mg/L	0.00100	103	70	130			
Manganese	2.05	mg/L	0.00100	80.2	70	130			
Molybdenum	0.448	mg/L	0.00100	109	70	130			
Nickel	0.264	mg/L	0.00100	102	70	130			
Uranium	0.440	mg/L	0.00100	123	70	130			
Vanadium	0.231	mg/L	0.00100	92	70	130			
Sample ID: C03040536-004AMSD	Matrix Spike Duplicate								04/22/03 23:40
Aluminum	0.235	mg/L	0.00100	91.5	70	130	10	20	
Beryllium	0.275	mg/L	0.00100	110	70	130	13	20	
Cadmium	0.242	mg/L	0.00100	96.8	70	130	2.2	20	
Cobalt	0.190	mg/L	0.00100	73.1	70	130	1.0	20	
Lead	0.255	mg/L	0.00100	101	70	130	1.1	20	
Manganese	2.04	mg/L	0.00100	74.2	70	130	0.7	20	
Molybdenum	0.420	mg/L	0.00100	98.2	70	130	6.4	20	
Nickel	0.238	mg/L	0.00100	91.9	70	130	11	20	
Uranium	0.414	mg/L	0.00100	112	70	130	6.2	20	
Vanadium	0.228	mg/L	0.00100	90.9	70	130	1.1	20	
Method: E353.2									Batch: A2003-04-15_1_NO3_01
Sample ID: MBLK-1	Method Blank								04/16/03 09:21
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040535-003DMS	Matrix Spike								04/16/03 09:39
Nitrogen, Nitrate+Nitrite as N	140	mg/L	3.00	103	90	110			
Sample ID: C03040535-003DMSD	Matrix Spike Duplicate								04/16/03 09:41
Nitrogen, Nitrate+Nitrite as N	136	mg/L	3.00	98.5	90	110	2.9	10	
Sample ID: MBLK-17	Method Blank								04/16/03 10:01
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040535-013DMS	Matrix Spike								04/16/03 10:17
Nitrogen, Nitrate+Nitrite as N	189	mg/L	3.00	110	90	110			
Sample ID: C03040535-013DMSD	Matrix Spike Duplicate								04/16/03 10:19
Nitrogen, Nitrate+Nitrite as N	188	mg/L	3.00	108	90	110	0.5	10	

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E353.2								Batch: A2003-04-15_1_NO3_02	
Sample ID: MBLK-1	Method Blank							04/16/03 11:05	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040550-001AMS	Matrix Spike							04/16/03 11:23	
Nitrogen, Nitrate+Nitrite as N	1.98	mg/L	0.100	94.5	90	110			
Sample ID: C03040550-001AMSD	Matrix Spike Duplicate							04/16/03 11:26	
Nitrogen, Nitrate+Nitrite as N	2.15	mg/L	0.100	103	90	110	8.2	10	
Sample ID: MBLK-17	Method Blank							04/16/03 11:46	
Nitrogen, Nitrate+Nitrite as N	ND	mg/L	0.100						
Sample ID: C03040561-001AMS	Matrix Spike							04/16/03 12:01	
Nitrogen, Nitrate+Nitrite as N	2.46	mg/L	0.100	108	90	110			
Sample ID: C03040561-001AMSD	Matrix Spike Duplicate							04/16/03 12:16	
Nitrogen, Nitrate+Nitrite as N	2.37	mg/L	0.100	104	90	110	3.7	10	

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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E624									Batch: R20798
Sample ID: LCS Curve 1 @	Laboratory Control Spike								04/14/03 11:30
Chloroform	8.72	ug/L	1.00	87.2	70	130			
Surr: 1,2-Dichlorobenzene-d4			1.00	98.1	80	120			
Surr: Dibromofluoromethane			1.00	92.1	70	130			
Surr: p-Bromofluorobenzene			1.00	101	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: Method Blank	Method Blank								04/14/03 13:27
Chloroform	ND	ug/L	1.00						
Surr: 1,2-Dichlorobenzene-d4			1.00	100	80	120			
Surr: Dibromofluoromethane			1.00	100	70	130			
Surr: p-Bromofluorobenzene			1.00	98.6	75	125			
Surr: Toluene-d8			1.00	95.3	80	120			
Sample ID: C03040536-001E	Matrix Spike								04/15/03 01:51
Chloroform	363	ug/L	10.0	110	70	130			
Surr: 1,2-Dichlorobenzene-d4			10.0	101	80	120			
Surr: Dibromofluoromethane			10.0	106	70	130			
Surr: p-Bromofluorobenzene			10.0	99.4	75	125			
Surr: Toluene-d8			10.0	96.4	80	120			
Sample ID: C03040536-001E	Matrix Spike Duplicate								04/15/03 02:30
Chloroform	351	ug/L	10.0	105	70	130	3.2	20	
Surr: 1,2-Dichlorobenzene-d4			10.0	99	80	120	0	10	
Surr: Dibromofluoromethane			10.0	106	70	130	0	10	
Surr: p-Bromofluorobenzene			10.0	97.3	75	125	0	10	
Surr: Toluene-d8			10.0	95.6	80	120	0	10	
Method: E900.1									Batch: R20861
Sample ID: C03040444-001BMS	Matrix Spike								04/14/03 09:55
Gross Alpha minus Rn & U	16.5	pCi/L	1.00	84.6	70	130			
Sample ID: C03040444-001BMSD	Matrix Spike Duplicate								04/14/03 09:55
Gross Alpha minus Rn & U	15.6	pCi/L	1.00	80	70	130	5.6	30	
Sample ID: MB-R20861	Method Blank								04/14/03 09:55
Gross Alpha minus Rn & U	ND	pCi/L	1.00						
Sample ID: LCS-R20861	Laboratory Control Spike								04/14/03 09:55
Gross Alpha minus Rn & U	20.4	pCi/L	1.00	105	70	130			

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S - Spike Recovery outside of recommended recovery limits

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

QA/QC Summary Report

Client: United Nuclear Corp
Project: Zone 3

Report Date: 08/14/03
Work Order: C03040536

Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: E903.0									Batch: 03RA-135
Sample ID: C03040570-001A	Sample Duplicate								04/26/03 15:50
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040572-001A	Sample Duplicate								04/26/03 17:51
Radium 226	ND	pCi/L	0.200				0	30	
Sample ID: C03040573-001A	Matrix Spike								04/26/03 19:52
Radium 226	12.7	pCi/L	0.200	82.6	70	130			
Sample ID: MB	Method Blank								04/27/03 01:54
Radium 226	ND	pCi/L	0.200						
Sample ID: 226	Laboratory Control Spike								04/27/03 03:54
Radium 226	16.7	pCi/L	0.200	106	70	130			
Method: E904.0									Batch: 03228249
Sample ID: C03040575-001A	Matrix Spike								05/02/03 12:20
Radium 228	6.40	pCi/L	1.00	84.7	70	130			
Method: E907.0									Batch: R21016
Sample ID: MB-R21016	Method Blank								04/16/03 10:30
Thorium 230	ND	pCi/L	0.200						
Sample ID: LCS-R21016	Laboratory Control Spike								04/16/03 10:30
Thorium 230	24.8	pCi/L	0.200	99.2	70	130			
Sample ID: C03040537-003AMS	Matrix Spike								04/16/03 10:30
Thorium 230	122	pCi/L	0.200	97.3	70	130			
Sample ID: C03040537-003AMSD	Sample Duplicate								04/16/03 10:30
Thorium 230	135	pCi/L	0.200						

Qualifiers:
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Analyte	Result	Units	RL	%REC	Low Limit	High Limit	RPD	RPDLimit	Qual
Method: NERHL-65-4									**Batch: 03PB-11**
Sample ID: 210	Laboratory Control Spike								04/25/03 16:15
Lead 210	32	pCi/L	2.7	112	70	130			
Sample ID: C03040793-005A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-006A	Sample Duplicate								04/25/03 16:15
Lead 210	ND	pCi/L	2.7		70	130	0	30	
Sample ID: C03040793-007A	Matrix Spike								04/25/03 16:15
Lead 210	65	pCi/L	2.7	90.2	70	130			
Sample ID: C03040793-008A	Matrix Spike								04/25/03 16:15
Lead 210	78	pCi/L	2.7	108	70	130			
Sample ID: MB	Method Blank								04/25/03 16:15
Lead 210	ND	pCi/L	2.7						

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