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CERTIFIED - RETURN RECEIPT REQUESTED

August 30, 2002

Mr. Mark Purcell
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 2002

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 2002.

Two quarterly sampling episodes occurred in the first half of 2002 (i.e. January and April). Additionally, four monthly sampling episodes (i.e. February, March, May, and June) occurred in the South West Alluvium.

Sincerely,

Larry Bush
Manager

LB:db

Enclosures

Cc: NRC, Rockville, MD
NRC, Arlington, TX
Steve Cline, GE
Roy Blickwedel, GE
Robin Brown. NMED
Diana Malone, NNEPA

SEMI-ANNUAL QUALITY ASSURANCE

CHURCH ROCK SITE

JANUARY THRU JUNE SAMPLING EVENTS

AUGUST - 2002

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1.0 REQUIREMENTS

The quality assurance and control procedures are contained in Section 3.0 of the Remedial Action Plan of the 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 PROCEDURE

Copies of the 2002 quarterly (1st and 2nd) and monthly (Feb., March, May, and June) field low flow purging and sampling report sheets, are included in Appendix A. These sheets indicate the field parameters of pH, temperature, conductivity and the water level drop in the well if any, during the sampling. The quarterly and monthly Field Blank and Duplicate analysis reports are included in Appendix A.

3.0 CHAIN OF CUSTODY

Copies of the quarterly and monthly Chain of Custody reports are included in Appendix B. Energy Laboratories, Inc., our contact 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 and monthly internal Quality Control reports prepared by Energy Laboratories and the associated EPA performance evaluations are included in Appendix C.

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 rang 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 SHEETS

GROUND WATER MONITORING FIELD DATA SHEET

1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 1,769	2nd Cond. 1,861	Stable Cond. 1,701	Ending Cond. 1,555
	TWQ-142			1st pH 8.00	2nd pH 8.01	Stable pH 7.95	Ending pH 8.23
		202.25'	202.95'	1st Temp. 13.0°	2nd Temp. 12.2°	Stable Temp. 11.7°	Ending Temp. 11.4°
1-7-02	Time	Bubbler Start	Bubbler End	Comments: COND. IS IN µS/CM PH IS IN STD. UNITS TEMP. IS IN °C			
	0905	18.604'	17.824'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,090	2nd Cond. 2,450	Stable Cond. 2,870	Ending Cond. 3,021
	NBL-1			1st pH 7.42	2nd pH 7.35	Stable pH 7.25	Ending pH 6.79
		169.20'	169.25'	1st Temp 10.0°	2nd Temp 9.9°	Stable Temp 9.4°	Ending Temp. 10.3°
1-7-02	Time	Bubbler Start	Bubbler End	Comments.			
	0940	13.193'	13.187'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,600	2nd Cond. 4,600	Stable Cond. 4,910	Ending Cond 4,990
	504-B			1st pH 7.08	2nd pH 5.40	Stable pH 4.31	Ending pH 5.46
		160.20'	160.30'	1st Temp. 11.3°	2nd Temp. 11.0°	Stable Temp. 10.8°	Ending Temp. 11.3°
1-7-02	Time	Bubbler Start	Bubbler End	Comments:			
	1025	6.535'	6.297'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,870	2nd Cond. 4,740	Stable Cond. 5,030	Ending Cond. 4,850
	719			1st pH 2.96	2nd pH 2.93	Stable pH 2.91	Ending pH 3.00
		155.50'	156.20'	1st Temp. 11.8°	2nd Temp 11.7°	Stable Temp. 11.8°	Ending Temp. 13.4°
1-7-02	Time	Bubbler Start	Bubbler End	Comments:			
	1110	9.116'	8.482'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,430	2nd Cond. 3,110	Stable Cond. 3,250	Ending Cond. 3,230
	420			1st pH 5.65	2nd pH 5.98	Stable pH 6.20	Ending pH 6.63
		133.15'	134.45'	1st Temp. 12.7°	2nd Temp. 12.5°	Stable Temp. 12.4°	Ending Temp. 12.5°
1-7-02	Time	Bubbler Start	Bubbler End	Comments:			
	1140	9.394'	9.287'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,840	2nd Cond. 4,280	Stable Cond. 5,410	Ending Cond 5,500
	509-D			1st pH 7.12	2nd pH 7.04	Stable pH 6.81	Ending pH 6.41
		68.50'	68.60'	1st Temp. 16.0°	2nd Temp. 15.1°	Stable Temp. 13.7°	Ending Temp. 13.7°
1-7-02	Time	Bubbler Start	Bubbler End	Comments:			
	1310	11.478'	11.438'				

GROUND WATER MONITORING FIELD DATA SHEET

1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-02	EPA-23	48.30'	48.55'	1st Cond. 4,300	2nd Cond. 4,290	Stable Cond. 4,270	Ending Cond. 4,250
	Time	Bubbler Start	Bubbler End	1st pH 7.07	2nd pH 6.97	Stable pH 6.90	Ending pH 6.70
	1340	13.343'	13.058'	1st Temp. 13.3°	2nd Temp. 13.1°	Stable Temp. 12.9°	Ending Temp. 13.1°
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-02	803	57.85'	57.95'	1st Cond. 4,720	2nd Cond. 5,870	Stable Cond. 6,220	Ending Cond. 6,320
	Time	Bubbler Start	Bubbler End	1st pH 7.12	2nd pH 6.98	Stable pH 6.72	Ending pH 6.46
	1410	18.651'	18.485'	1st Temp. 13.7°	2nd Temp. 13.5°	Stable Temp. 13.2°	Ending Temp 13.3°
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-02	808	45.65'	45.70'	1st Cond. 2,970	2nd Cond. 5,420	Stable Cond. 6,380	Ending Cond. 6,460
	Time	Bubbler Start	Bubbler End	1st pH 7.00	2nd pH 6.98	Stable pH 6.57	Ending pH 6.53
	1435	17.730'	17.636'	1st Temp. 12.4°	2nd Temp. 12.4°	Stable Temp. 12.2°	Ending Temp. 12.2°
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-7-02	802	44.40'	44.45'	1st Cond. 3,100	2nd Cond. 5,230	Stable Cond. 5,890	Ending Cond. 6,430
	Time	Bubbler Start	Bubbler End	1st pH 6.77	2nd pH 6.64	Stable pH 6.57	Ending pH 6.56
	1505	22.995'	22.957'	1st Temp. 12.2°	2nd Temp. 12.1°	Stable Temp. 12.0°	Ending Temp. 12.1°
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-02	632	41.60'	41.75'	1st Cond. 5,670	2nd Cond. 6,080	Stable Cond. 6,650	Ending Cond. 6,620
	Time	Bubbler Start	Bubbler End	1st pH 7.40	2nd pH 7.32	Stable pH 6.63	Ending pH 6.45
	0830	15.090'	14.949'	1st Temp. 10.5°	2nd Temp. 10.5°	Stable Temp. 10.5°	Ending Temp. 10.8°
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-8-02	801	48.20'	48.95'	1st Cond. 2,290	2nd Cond. 5,240	Stable Cond. 6,550	Ending Cond. 6,450
	Time	Bubbler Start	Bubbler End	1st pH 7.48	2nd pH 7.49	Stable pH 6.92	Ending pH 6.58
	0905	13.207'	12.431'	1st Temp. 8.3°	2nd Temp. 8.8°	Stable Temp. 9.3°	Ending Temp. 10.9°
				Comments:			

GROUND WATER MONITORING FIELD DATA SHEET
1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,140	2nd Cond. 4,120	Stable Cond. 4,940	Ending Cond. 5,110
	Gw-2			1st pH 7.04	2nd pH 7.01	Stable pH 6.75	Ending pH 6.54
		52.80'	53.10'	1st Temp. 6.3°	2nd Temp. 6.2°	Stable Temp. 6.9°	Ending Temp. 9.8°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	0940	17.661'	17.358'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,720	2nd Cond. 4,820	Stable Cond. 4,830	Ending Cond. 5,150
	Gw-1			1st pH 7.42	2nd pH 7.42	Stable pH 7.35	Ending pH 6.89
		58.80'	58.85'	1st Temp. 10.5°	2nd Temp. 10.4°	Stable Temp. 10.7°	Ending Temp 11.1°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1015	11.584'	11.543'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,150	2nd Cond 5,180	Stable Cond. 5,180	Ending Cond 5,150
	Gw-1			1st pH 6.89	2nd pH 6.80	Stable pH 6.78	Ending pH 6.90
	DUPLICATE	58.85'	58.85'	1st Temp. 11.1°	2nd Temp. 11.0°	Stable Temp 10.9°	Ending Temp. 10.9°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1040	11.543'	11.544'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond 3,910	2nd Cond. 4,330	Stable Cond. 5,160	Ending Cond. 5,240
	624			1st pH 7.49	2nd pH 7.46	Stable pH 6.95	Ending pH 6.62
		48.60'	48.60'	1st Temp. 13.1°	2nd Temp. 12.8°	Stable Temp. 11.9°	Ending Temp. 13.0°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1105	13.704'	13.656'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,230	2nd Cond 4,640	Stable Cond. 4,780	Ending Cond. 4,820
	EPA-28			1st pH 7.48	2nd pH 7.45	Stable pH 7.29	Ending pH 6.96
		60.50'	60.60'	1st Temp. 15.2°	2nd Temp. 14.8°	Stable Temp. 13.3°	Ending Temp. 13.1°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1135	9.629'	9.485'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,310	2nd Cond 3,540	Stable Cond. 4,370	Ending Cond 4,960
	Gw-3			1st pH 7.33	2nd pH 7.28	Stable pH 7.16	Ending pH 6.90
		50.20'	50.60'	1st Temp. 15.2°	2nd Temp. 14.6°	Stable Temp. 13.6°	Ending Temp 13.1°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1315	5.131'	4.718'				

GROUND WATER MONITORING FIELD DATA SHEET
1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,500	2nd Cond. 3,680	Stable Cond. 3,910	Ending Cond. 4,100
	EPA-25			1st pH 7.32	2nd pH 7.30	Stable pH 7.26	Ending pH 7.09
		51.00'	51.20'	1st Temp. 12.9°	2nd Temp. 12.5°	Stable Temp. 12.2°	Ending Temp. 12.2°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1400	9.513'	9.386'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,430	2nd Cond. 5,040	Stable Cond. 5,200	Ending Cond. 5,230
	627			1st pH 7.82	2nd pH 7.78	Stable pH 7.70	Ending pH 7.27
		54.50'	54.60'	1st Temp. 13.1°	2nd Temp. 13.1°	Stable Temp. 13.0°	Ending Temp 13.0°
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1500	7.572'	7.615'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 15	2nd Cond.	Stable Cond.	Ending Cond.
	FIELD BLANK			1st pH 8.83	2nd pH	Stable pH	Ending pH
				1st Temp. 16.0°	2nd Temp.	Stable Temp.	Ending Temp
1-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1520						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,050	2nd Cond 3,150	Stable Cond. 3,210	Ending Cond. 3,320
	717			1st pH 7.81	2nd pH 7.80	Stable pH 7.76	Ending pH 6.88
		117.10'	117.20'	1st Temp. 9.5°	2nd Temp. 9.4°	Stable Temp. 9.2°	Ending Temp. 10.9°
1-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	0845	14.055'	14.014'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,540	2nd Cond. 4,010	Stable Cond. 4,220	Ending Cond. 4,250
	EPA-14			1st pH 7.38	2nd pH 7.38	Stable pH 7.36	Ending pH 6.85
		105.60'	105.60'	1st Temp. 8.9°	2nd Temp. 9.2°	Stable Temp. 9.5°	Ending Temp. 11.0°
1-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	0915	17.562'	17.537'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,580	2nd Cond. 3,920	Stable Cond. 4,210	Ending Cond. 4,180
	517			1st pH 6.29	2nd pH 6.06	Stable pH 5.65	Ending pH 4.90
		100.40'	103.50'	1st Temp. 9.8°	2nd Temp. 9.9°	Stable Temp. 10.0°	Ending Temp. 11.60°
1-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	0940	5.993'	2.920'				

GROUND WATER MONITORING FIELD DATA SHEET
1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	613	77.85'	78.40'	1st Cond. 7,430	2nd Cond. 8,390	Stable Cond. 10,380	Ending Cond. 10,510
				1st pH 3.23	2nd pH 3.21	Stable pH 3.12	Ending pH 2.93
				1st Temp. 8.3°	2nd Temp. 8.1°	Stable Temp. 8.0°	Ending Temp. 9.9°
	Time 0835	Bubbler Start 6.699'	Bubbler End 5.994'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	614	99.00'	99.35'	1st Cond. 5,520	2nd Cond. 6,800	Stable Cond. 7,350	Ending Cond. 7,230
				1st pH 6.27	2nd pH 6.41	Stable pH 6.71	Ending pH 6.64
				1st Temp. 7.8°	2nd Temp. 8.3°	Stable Temp. 9.6°	Ending Temp. 10.1°
	Time 0915	Bubbler Start 7.144'	Bubbler End 6.817'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	515-A	98.95'	100.70'	1st Cond. 2,570	2nd Cond. 4,460	Stable Cond. 6,630	Ending Cond. 6,600
				1st pH 6.91	2nd pH 6.88	Stable pH 6.56	Ending pH 5.57
				1st Temp. 8.1°	2nd Temp. 8.4°	Stable Temp. 10.0°	Ending Temp. 10.8°
	Time 0950	Bubbler Start 10.032'	Bubbler End 8.138'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	604.	97.60'	98.10'	1st Cond. 3,870	2nd Cond. 5,070	Stable Cond. 5,980	Ending Cond. 6,040
				1st pH 5.08	2nd pH 4.98	Stable pH 4.86	Ending pH 4.81
				1st Temp. 9.9°	2nd Temp. 10.2°	Stable Temp 10.8°	Ending Temp. 11.5°
	Time 1020	Bubbler Start 11.541'	Bubbler End 11.072'	Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	EPA-7	109.95'	110.65'	1st Cond. 4,000	2nd Cond. 4,820	Stable Cond. 6,580	Ending Cond. 6,560
				1st pH 5.95	2nd pH 6.15	Stable pH 6.43	Ending pH 6.09
				1st Temp. 10.8°	2nd Temp. 10.8°	Stable Temp. 10.7°	Ending Temp. 11.5°
	Time 1055	Bubbler Start 16.681'	Bubbler End 16.001'	Comments.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	EPA-5	120.40'	120.85'	1st Cond. 3,980	2nd Cond. 4,530	Stable Cond. 5,010	Ending Cond. 4,800
				1st pH 6.76	2nd pH 6.75	Stable pH 6.73	Ending pH 6.22
				1st Temp. 12.0°	2nd Temp. 11.90°	Stable Temp. 12.0°	Ending Temp. 13.0°
	Time 1130	Bubbler Start 9.917'	Bubbler End 9.608'	Comments:			

GROUND WATER MONITORING FIELD DATA SHEET
1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
1-14-02	EPA - 4	201.55'	201.85'	1st Cond. 4,220	2nd Cond. 4,100	Stable Cond. 4,140	Ending Cond. 4,280
				1st pH 6.75	2nd pH 6.75	Stable pH 6.71	Ending pH 6.75
				1st Temp. 14.5°	2nd Temp. 14.2°	Stable Temp. 13.1°	Ending Temp. 13.0°
	Time 1210	Bubbler Start 20.888'	Bubbler End 20.623'	Comments:			
1-14-02	EPA - 2	169.70'	170.10'	1st Cond. 2,500	2nd Cond 2,630	Stable Cond. 2,790	Ending Cond. 2,830
				1st pH 6.94	2nd pH 6.95	Stable pH 6.98	Ending pH 6.96
				1st Temp. 14.7°	2nd Temp. 14.0°	Stable Temp. 12.80°	Ending Temp. 11.8°
	Time 1350	Bubbler Start 10.871'	Bubbler End 9.299'	Comments:			
1-14-02	EPA - 2 DUPLICATE	170.10'	170.30'	1st Cond. 2,830	2nd Cond. 2,840	Stable Cond 2,840	Ending Cond. 2,840
				1st pH 6.96	2nd pH 6.90	Stable pH 6.89	Ending pH 6.85
				1st Temp. 11.8°	2nd Temp 11.6°	Stable Temp. 11.5°	Ending Temp. 12.1°
	Time 1420	Bubbler Start 9.299'	Bubbler End 8.733'	Comments:			
1-14-02	708	147.60'	148.45'	1st Cond. 3,790	2nd Cond. 4,480	Stable Cond. 4,960	Ending Cond 4,660
				1st pH 2.93	2nd pH 2.89	Stable pH 2.83	Ending pH 3.95
				1st Temp. 12.3°	2nd Temp. 12.2°	Stable Temp. 12.2°	Ending Temp. 11.8°
	Time 1450	Bubbler Start 10.113'	Bubbler End 7.444'	Comments:			
1-15-02	711	179.00'	179.50'	1st Cond. 4,540	2nd Cond. 4,920	Stable Cond. 4,990	Ending Cond. 4,600
				1st pH 2.93	2nd pH 2.90	Stable pH 2.89	Ending pH 4.30
				1st Temp. 9.4°	2nd Temp. 9.4°	Stable Temp. 9.4°	Ending Temp. 10.6°
	Time 0840	Bubbler Start 12.559'	Bubbler End 12.078'	Comments:			
1-15-02	711 DUPLICATE	179.50'	179.80'	1st Cond. 4,600	2nd Cond. 4,600	Stable Cond. 4,600	Ending Cond. 4,570
				1st pH 4.30	2nd pH 4.35	Stable pH 4.36	Ending pH 4.66
				1st Temp. 10.6°	2nd Temp. 10.6°	Stable Temp. 10.6°	Ending Temp. 10.7°
	Time 0945	Bubbler Start 12.078'	Bubbler End 11.774'	Comments:			

GROUND WATER MONITORING FIELD DATA SHEET
1ST QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe	WL w/Probe	Reading	Reading	Reading	Reading
	EPA-13	Pre-Sample	Post Sample	1st Cond. 4,550	2nd Cond. 5,180	Stable Cond. 5,370	Ending Cond. 5,400
		165.0'	165.8'	1st pH 3.98	2nd pH 4.06	Stable pH 5.42	Ending pH 5.79
1-15-02	Time	Bubbler Start	Bubbler End	1st Temp. 8.1°	2nd Temp. 8.2°	Stable Temp. 9.8°	Ending Temp. 10.6°
	0905	7.467'	6.750'	Comments:			

Date	Well Number	WL w/Probe	WL w/Probe	Reading	Reading	Reading	Reading
	FIELD BLANK	Pre-Sample	Post Sample	1st Cond. 21	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 6.00	2nd pH	Stable pH	Ending pH
1-15-02				1st Temp. 8.3	2nd Temp	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1020						

Date	Well Number	WL w/Probe	WL w/Probe	Reading	Reading	Reading	Reading
		Pre-Sample	Post Sample	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	WL w/Probe	Reading	Reading	Reading	Reading
		Pre-Sample	Post Sample	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	WL w/Probe	Reading	Reading	Reading	Reading
		Pre-Sample	Post Sample	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	WL w/Probe	Reading	Reading	Reading	Reading
		Pre-Sample	Post Sample	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:			

GROUND WATER MONITORING FIELD DATA SHEET
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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	509-D			1st Cond. 5,120	2nd Cond. 5,540	Stable Cond 5,570	Ending Cond. 5,590
				1st pH 6.78	2nd pH 6.73	Stable pH 6.67	Ending pH 6.36
		68.82'	68.83'	1st Temp. 13.5	2nd Temp. 13.1	Stable Temp. 13.0	Ending Temp. 13.8
4-1-02	Time	Bubbler Start	Bubbler End	Comments: CONDUCTIVITY IS IN µS/CM PH IS IN STD. UNITS TEMP. IS IN °C			
	0910	11.470'	11.449'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	EPA-23			1st Cond. 3,220	2nd Cond. 3,730	Stable Cond. 4,120	Ending Cond. 4,250
				1st pH 6.92	2nd pH 6.92	Stable pH 6.71	Ending pH 6.57
		48.30'	48.46'	1st Temp. 15.2	2nd Temp. 14.6	Stable Temp 14.0	Ending Temp 14.7
4-1-02	Time	Bubbler Start	Bubbler End	Comments			
	0950	13.516'	13.298'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	803			1st Cond. 5,620	2nd Cond. 6,050	Stable Cond. 5,370	Ending Cond 6,380
				1st pH 6.42	2nd pH 6.40	Stable pH 6.35	Ending pH 6.34
		57.68'	57.70'	1st Temp. 15.9	2nd Temp. 15.6	Stable Temp. 14.9	Ending Temp. 15.3
4-1-02	Time	Bubbler Start	Bubbler End	Comments:			
	1025	19.004'	18.901'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	808			1st Cond. 6,100	2nd Cond. 6,300	Stable Cond. 6,490	Ending Cond. 6,410
				1st pH 6.61	2nd pH 6.52	Stable pH 6.41	Ending pH 6.36
		45.39'	45.50'	1st Temp. 15.7	2nd Temp. 15.4	Stable Temp. 14.7	Ending Temp. 14.5
4-1-02	Time	Bubbler Start	Bubbler End	Comments:			
	1100	18.192'	18.068'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	802			1st Cond. 5,080	2nd Cond. 5,800	Stable Cond. 6,630	Ending Cond. 6,530
				1st pH 6.42	2nd pH 6.41	Stable pH 6.35	Ending pH 6.38
		44.12'	44.21'	1st Temp 18.1	2nd Temp. 17.3	Stable Temp. 15.4	Ending Temp 15.3
4-1-02	Time	Bubbler Start	Bubbler End	Comments.			
	1135	23.416'	23.370'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
	GW-2			1st Cond. 4,510	2nd Cond. 4,890	Stable Cond. 5,040	Ending Cond. 5,150
				1st pH 6.64	2nd pH 6.61	Stable pH 6.44	Ending pH 6.38
		52.62'	52.90'	1st Temp. 16.1	2nd Temp. 15.6	Stable Temp. 14.5	Ending Temp 14.9
4-1-02	Time	Bubbler Start	Bubbler End	Comments:			
	1320	18.050'	17.667'				

GROUND WATER MONITORING FIELD DATA SHEET
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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,070	2nd Cond. 4,400	Stable Cond. 5,210	Ending Cond. 5,250
	GW-1			1st pH 6.94	2nd pH 6.91	Stable pH 6.61	Ending pH 6.65
		58.60'	58.66'	1st Temp. 17.0	2nd Temp. 16.0	Stable Temp. 14.0	Ending Temp. 13.8
4-1-02	Time	Bubbler Start	Bubbler End	Comments:			
	1345	11.996'	11.945'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,150	2nd Cond. 5,250	Stable Cond. 6,220	Ending Cond. 6,470
	801			1st pH 7.18	2nd pH 7.01	Stable pH 6.47	Ending pH 6.36
		47.98'	48.94'	1st Temp 20.1	2nd Temp. 18.3	Stable Temp. 15.8	Ending Temp. 15.5
4-1-02	Time	Bubbler Start	Bubbler End	Comments.			
	1425	13.650'	12.570'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,820	2nd Cond. 5,010	Stable Cond. 6,550	Ending Cond. 6,670
	632			1st pH 7.00	2nd pH 6.93	Stable pH 6.38	Ending pH 6.32
		41.29'	41.55'	1st Temp. 14.9	2nd Temp. 14.4	Stable Temp. 12.9	Ending Temp 13.5
4-2-02	Time	Bubbler Start	Bubbler End	Comments:			
	0820	15.590'	15.358'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,020	2nd Cond. 4,330	Stable Cond. 5,100	Ending Cond. 5,290
	624			1st pH 6.82	2nd pH 6.73	Stable pH 6.56	Ending pH 6.54
		48.54'	48.57'	1st Temp. 15.8	2nd Temp. 15.0	Stable Temp. 13.9	Ending Temp. 14.3
4-2-02	Time	Bubbler Start	Bubbler End	Comments:			
	0900	13.889'	13.871'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 5,290	2nd Cond. 5,320	Stable Cond. 5,330	Ending Cond. 5,280
	624			1st pH 6.54	2nd pH 6.53	Stable pH 6.53	Ending pH 6.53
	DUPLICATE	48.57'	48.60'	1st Temp 14.3	2nd Temp. 14.0	Stable Temp. 14.0	Ending Temp. 14.5
4-2-02	Time	Bubbler Start	Bubbler End	Comments.			
	0925	13.871'	13.877'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,050	2nd Cond. 4,370	Stable Cond. 4,790	Ending Cond. 4,850
	EPA-28			1st pH 7.00	2nd pH 6.96	Stable pH 6.80	Ending pH 6.74
		60.20'	60.40'	1st Temp 16.4	2nd Temp. 15.9	Stable Temp. 14.9	Ending Temp. 15.3
4-2-02	Time	Bubbler Start	Bubbler End	Comments:			
	0955	[illegible]	[illegible]				

GROUND WATER MONITORING FIELD DATA SHEET
2ND QUARTER 2002
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,940	2nd Cond. 4,120	Stable Cond. 4,770	Ending Cond. 5,120
	GW-3			1st pH 7.00	2nd pH 6.97	Stable pH 6.68	Ending pH 6.76
		50.10'	50.40'	1st Temp. 16.6	2nd Temp. 16.4	Stable Temp. 15.6	Ending Temp. 16.9
4-2-02	Time	Bubbler Start	Bubbler End	Comments.			
	1045	5,484'	5.055'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,920	2nd Cond. 3,980	Stable Cond. 4,080	Ending Cond. 4,100
	EPA-25			1st pH 6.93	2nd pH 6.92	Stable pH 6.90	Ending pH 6.89
		51.20'	51.15'	1st Temp. 15.8	2nd Temp 16.0	Stable Temp. 15.0	Ending Temp. 15.4
4-2-02	Time	Bubbler Start	Bubbler End	Comments:			
	1150	9,770'	9,663'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 7,920	2nd Cond. 9,340	Stable Cond. 9,790	Ending Cond. 10,420
	613			1st pH 3.27	2nd pH 3.22	Stable pH 3.12	Ending pH 2.92
		77.90'	78.43'	1st Temp. 18.3	2nd Temp. 17.2	Stable Temp. 16.8	Ending Temp. 15.4
4-2-02	Time	Bubbler Start	Bubbler End	Comments:			
	1335	6,713'	6,119'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,930	2nd Cond. 6,110	Stable Cond. 7,140	Ending Cond. 7,260
	614			1st pH 6.39	2nd pH 6.60	Stable pH 6.89	Ending pH 6.56
		99.10'	99.49'	1st Temp. 19.4	2nd Temp. 18.4	Stable Temp. 16.5	Ending Temp 16.7
4-2-02	Time	Bubbler Start	Bubbler End	Comments.			
	1415	7.232'	6.901'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,520	2nd Cond. 5,850	Stable Cond. 6,590	Ending Cond. 6,740
	515-A			1st pH 6.57	2nd pH 6.44	Stable pH 5.83	Ending pH 5.41
		98.80'	100.84'	1st Temp 20.2	2nd Temp. 18.9	Stable Temp. 17.5	Ending Temp. 16.6
4-2-02	Time	Bubbler Start	Bubbler End	Comments.			
	1445	10.263'	8.131'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,340	2nd Cond. 3,870	Stable Cond. 4,110	Ending Cond. 4,180
	517			1st pH 4.82	2nd pH 4.71	Stable pH 4.57	Ending pH 4.46
		100.35'	104.50'	1st Temp. 15.6	2nd Temp. 15.0	Stable Temp. 14.0	Ending Temp 14.1
4-3-02	Time	Bubbler Start	Bubbler End	Comments:			
	0845	[illegible]	[illegible]				

GROUND WATER MONITORING FIELD DATA SHEET
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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,750	2nd Cond. 4,020	Stable Cond. 4,260	Ending Cond. 4,330
	EPA-14			1st pH 5.28	2nd pH 5.56	Stable pH 5.96	Ending pH 5.97
		105.40'	105.85'	1st Temp. 15.6	2nd Temp. 15.1	Stable Temp. 14.1	Ending Temp. 13.6
4-3-02	Time	Bubbler Start	Bubbler End	Comments:			
	0935	11.750'	11.343'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 14	2nd Cond.	Stable Cond.	Ending Cond.
	FIELD BLANK			1st pH 7.24	2nd pH	Stable pH	Ending pH
				1st Temp. 18.5	2nd Temp	Stable Temp	Ending Temp.
4-3-02	Time	Bubbler Start	Bubbler End	Comments:			
	1030						

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 3,470	2nd Cond. 4,380	Stable Cond. 5,290	Ending Cond. 4,780
	708			1st pH 3.07	2nd pH 2.95	Stable pH 2.82	Ending pH 3.98
		147.70'	148.51'	1st Temp. 11.5	2nd Temp 11.4	Stable Temp. 11.2	Ending Temp. 11.5
4-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	0900	9.281'	8.771'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 2,880	2nd Cond. 4,350	Stable Cond. 4,850	Ending Cond. 4,560
	711			1st pH 2.96	2nd pH 2.91	Stable pH 2.85	Ending pH 4.50
		179.20'	179.71'	1st Temp. 11.4	2nd Temp. 11.3	Stable Temp 11.5	Ending Temp. 11.9
4-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	0950	12.778'	12.223'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,560	2nd Cond. 4,570	Stable Cond. 4,580	Ending Cond. 4,540
	711			1st pH 4.50	2nd pH 4.54	Stable pH 4.56	Ending pH 4.73
	DUPLICATE	179.71'	180.00'	1st Temp. 11.9	2nd Temp. 11.8	Stable Temp. 11.8	Ending Temp. 12.0
4-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1020	12.223'	11.911'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
				1st Cond. 4,260	2nd Cond. 4,790	Stable Cond. 5,190	Ending Cond. 5,350
	EPA-13			1st pH 4.46	2nd pH 5.58	Stable pH 5.75	Ending pH 5.86
		165.23'	165.98'	1st Temp. 13.3	2nd Temp. 13.0	Stable Temp. 12.5	Ending Temp. 13.3
4-8-02	Time	Bubbler Start	Bubbler End	Comments:			
	1040	7.661'	6.710'				

GROUND WATER MONITORING FIELD DATA SHEET
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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-02	504-B	159.90'	160.18'	1st Cond. 2,500	2nd Cond. 3,200	Stable Cond. 4,730	Ending Cond 5,000
				1st pH 3.44	2nd pH 3.39	Stable pH 3.30	Ending pH 5.28
				1st Temp. 14.5	2nd Temp. 14.3	Stable Temp. 13.5	Ending Temp. 13.6
	Time	Bubbler Start	Bubbler End	Comments.			
	1120	7.112'	6.694'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-02	719	156.21'	156.98'	1st Cond. 2,480	2nd Cond. 4,960	Stable Cond 5,050	Ending Cond. 4,850
				1st pH 2.84	2nd pH 2.80	Stable pH 2.74	Ending pH 2.90
				1st Temp 14.5	2nd Temp 14.4	Stable Temp 14.1	Ending Temp. 14.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1320	9.534'	8.919'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-02	420	134.38'	134.57'	1st Cond 3,170	2nd Cond. 3,190	Stable Cond 3,300	Ending Cond. 3,330
				1st pH 6.46	2nd pH 6.53	Stable pH 6.67	Ending pH 6.53
				1st Temp. 13.1	2nd Temp. 13.7	Stable Temp. 13.7	Ending Temp 14.4
	Time	Bubbler Start	Bubbler End	Comments			
	1350	9.682'	9.515'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-8-02	TW Q-142	201.71'	202.30'	1st Cond 1,198	2nd Cond. 1,188	Stable Cond 1,187	Ending Cond. 1,246
				1st pH 7.25	2nd pH 7.27	Stable pH 7.30	Ending pH 7.59
				1st Temp 16.6	2nd Temp. 16.1	Stable Temp. 15.1	Ending Temp 15.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1400	19.285'	18.697'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-9-02	627	54.90'	54.95'	1st Cond 2,960	2nd Cond. 3,660	Stable Cond. 3,820	Ending Cond 4,050
				1st pH 6.99	2nd pH 7.10	Stable pH 7.21	Ending pH 7.08
				1st Temp. 12.3	2nd Temp. 12.1	Stable Temp. 11.9	Ending Temp. 12.9
	Time	Bubbler Start	Bubbler End	Comments.			
	0845	7.637'	7.567'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
4-9-02	717	117.55'	117.60'	1st Cond. 2,050	2nd Cond. 2,100	Stable Cond. 2,240	Ending Cond. 2,630
				1st pH 7.30	2nd pH 7.33	Stable pH 7.34	Ending pH 6.61
				1st Temp. 14.0	2nd Temp 13.7	Stable Temp. 13.2	Ending Temp. 14.0
	Time	Bubbler Start	Bubbler End	Comments.			
	0940	13.828'	13.870'				

GROUND WATER MONITORING FIELD DATA SHEET
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				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 1,980	2nd Cond. 2,070	Stable Cond. 2,170	Ending Cond. 2,240
Date	EPA - 2	Pre-Sample	Post Sample	1st pH 6.83	2nd pH 6.85	Stable pH 6.92	Ending pH 6.83
		170.14'	170.55'	1st Temp. 13.2	2nd Temp. 13.1	Stable Temp. 13.0	Ending Temp. 13.5
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1020	8.545'	6.277'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 2,240	2nd Cond. 2,240	Stable Cond. 2,240	Ending Cond 2,240
Date	EPA - 2	Pre-Sample	Post Sample	1st pH 6.83	2nd pH 6.78	Stable pH 6.76	Ending pH 6.72
	DUPLICATE	170.55'	170.74'	1st Temp 13.4	2nd Temp. 13.5	Stable Temp 13.3	Ending Temp. 13.6
4-9-02	Time	Bubbler Start	Bubbler End	Comments.			
	1050	6.277'	6.063'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 4,140	2nd Cond. 4,600	Stable Cond. 4,900	Ending Cond 5,060
Date	604	Pre-Sample	Post Sample	1st pH 5.23	2nd pH 4.96	Stable pH 4.83	Ending pH 4.70
		97.90'	98.34'	1st Temp. 16.0	2nd Temp. 15.1	Stable Temp. 14.8	Ending Temp. 15.1
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1230	10.195'	9.773'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,380	2nd Cond. 5,460	Stable Cond. 5,300	Ending Cond. 5,370
Date	EPA-7	Pre-Sample	Post Sample	1st pH 6.15	2nd pH 6.24	Stable pH 6.42	Ending pH 6.01
		110.34'	111.13'	1st Temp. 15.9	2nd Temp. 15.3	Stable Temp. 14.0	Ending Temp. 13.9
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1300	16.555'	15.737'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 2,550	2nd Cond. 3,760	Stable Cond. 3,830	Ending Cond. 4,010
Date	EPA-5	Pre-Sample	Post Sample	1st pH 6.13	2nd pH 6.16	Stable pH 6.18	Ending pH 6.05
		120.76'	121.14'	1st Temp. 17.1	2nd Temp. 16.6	Stable Temp. 15.2	Ending Temp. 15.8
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1335	9.847'	9.496'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,260	2nd Cond. 3,210	Stable Cond. 3,210	Ending Cond. 3,470
Date	EPA - 4	Pre-Sample	Post Sample	1st pH 6.30	2nd pH 6.34	Stable pH 6.38	Ending pH 6.54
		201.90'	202.22'	1st Temp. 15.8	2nd Temp. 15.1	Stable Temp. 14.2	Ending Temp. 15.1
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1415	20.933'	20.519'				

GROUND WATER MONITORING FIELD DATA SHEET
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				Reading	Reading	Reading	Reading
Date	Well Number	WL w/Probe	WL w/Probe	1st Cond. 11	2nd Cond.	Stable Cond.	Ending Cond.
	FIELD BLANK	Pre-Sample	Post Sample	1st pH 8.61	2nd pH	Stable pH	Ending pH
				1st Temp. 14.1	2nd Temp.	Stable Temp.	Ending Temp.
4-9-02	Time	Bubbler Start	Bubbler End	Comments:			
	1530						

				Reading	Reading	Reading	Reading
Date	Well Number	WL w/Probe	WL w/Probe	1st Cond. 2,220	2nd Cond. 2,350	Stable Cond. 2,390	Ending Cond. 2,430
	NBL-1	Pre-Sample	Post Sample	1st pH 5.91	2nd pH 6.09	Stable pH 6.25	Ending pH 6.58
		169.00'	169.80'	1st Temp. 13.5	2nd Temp 13.4	Stable Temp 13.4	Ending Temp. 13.2
4-17-02	Time	Bubbler Start	Bubbler End	Comments: SAMPLE COLLECTED AFTER FAULTY COMPRESSION FITTING			
	0930	13.648'	13.551'	ON PUMP LINE IS REPLACED/REPAIRED @ 0900 TODAY.			

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

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

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

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

APPENDIX A

QUARTERLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

JANUARY AND APRIL OF 2002

QA AND QC CONTROLS

FIELD BLANK

EPA-2 AND EPA-2 DUPLICATE FOR ZONE 1

711 AND 711 DUPLICATE FOR ZONE 3

GW-1 AND GW-1 DUPLICATE FOR SW ALLUVIUM (JAN.)

624 AND 624 DUPLICATE FOR SW ALLUVIUM (APRIL)

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

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

WELL ID.	Field Blank	Field Blank	Field Blank	Field Blank
LABORATORY ID:	C01080351-002	C01090398-002	C01100431-006	C02010346-002
SAMPLE DATE/TIME:	08/08/2001 09 45	09/11/2001 14:10	10/09/2001 11:55	01/08/2002 15:20
DATE/TIME RECEIVED:	08/10/2001 10:30	09/14/2001 10:00	10/12/2001 10.00	01/11/2002 10:00
REPORT DATE:	September 20, 2001	October 12, 2001	November 07, 2001	February 1, 2002
UNC SUBMITTAL #:	TE-12-8-2001	TE-14-9-2001	TE-16-10-2001	TE-1-1-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	1 0	< 1 0	< 1 0	< 1 0	< 1 0
Magnesium	EPA 200 7	mg/L	1 0	< 1 0	< 1 0	< 1 0	< 1 0
Sodium	EPA 200.7	mg/L	1 0	< 1 0	< 1 0	< 1 0	2 4
Potassium	EPA 200 7	mg/L	1 0	< 1 0	< 1 0	< 1 0	< 1 0
Bicarbonate	SM 2320-B	mg/L	0 10	8 50	11 0	9.20	7 90
Sulfate	EPA 200 7	mg/L	1 0	< 1.0	< 1.0	< 1.0	1 7
Chloride	EPA 200 7	mg/L	1 0	< 1.0	< 1.0	< 1 0	< 1 0
Ammonium as N	SM 4500 NH_3-G	mg/L	0 05	< 0 05	< 0 05	< 0 05	< 0 05
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	0 20	< 0 20	0 10	< 0 10
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10	12	15	< 10
pH	SM 4500-H-B	std units	0 10	6 50	6.70	6 70	6 50
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 8	mg/L	0 01	< 0 01	< 0 01	< 0 01	< 0 01
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							
Uranium, dissolved	EPA 200 8	mg/L	0 0003	< 0 0003	< 0 0003	< 0 0003	< 0.0003
Radium 226	EPA 903 0	pCi/L	0 2	< 0 2	< 0 2	< 0 2	< 0 2
Radium Error Estimate ±				-	-	-	-
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 624	µg/L	1 0	< 1 0	< 1 0	< 1 0	< 1.0

Quality Assurance Data		Target Range				
Anion	meq		0 20	0 24	0 21	0 20
Cation	meq		0 21	0 21	0 21	0 27
SM A/C Balance	%	-5 - +5	* 1 0	* -8 2	* -0 10	* 14 4
alc TDS	mg/L		11 21	12 46	11 12	12 57
DS A/C Balance	dec %	0 80 - 1 20	* 0 89	* 0 96	* 1 35	* 0 80

* 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:	C02010514-009
SAMPLE DATE/TIME:	01/14/2002 10:20
DATE/TIME RECEIVED:	01/18/2002 10:00
REPORT DATE:	February 25, 2002
UNC SUBMITTAL #:	TE-2-1-2002

1/15/02 →

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	6.60
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 4
Radium Error Estimate ±				0.2
Radium 228	EPA 904 0	pCi/L	1.0	3 0
Radium Error Estimate ±				1.0
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 Alpha	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
S 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:	C02040227-003
SAMPLE DATE/TIME:	04/03/02 10:30
DATE/TIME RECEIVED:	04/08/02 10:30
REPORT DATE:	April 27, 2002
UNC SUBMITTAL #:	TE-5-4-2002

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 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 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 Alpha	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
S 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:	C02040488-008
SAMPLE DATE/TIME:	04/09/2002 15:30
DATE/TIME RECEIVED:	04/15/2002 10:00
REPORT DATE:	May 7, 2002
UNC SUBMITTAL #:	TE-6-4-2002

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	3 3
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	2.1
Chloride	EPA 200 7	mg/L	1 0	2 5
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	0.48
Non-Metals				
Total Dissolved Solids	SM 2540-C	mg/L	10	< 10
pH	SM 4500-H-B	std units	0 10	6 70
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 Alpha	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 29
Cation	meq		0.31
SM A/C Balance	%	-5 - +5	* 3.16
Calc TDS	mg/L		17.4
TDS A/C Balance	dec. %	0.80 - 1.20	* 0 58

* 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:	EPA-2	EPA-2	EPA-2	EPA-2
LABORATORY ID:	01-34625-3	C01100431-001	C02010514-007	C02040488-002
SAMPLE DATE/TIME:	07/16/2001 13:25	10/09/2001 08:30	01/14/2002 13:50	04/09/2002 10:20
DATE RECEIVED:	07/20/2001 10.30	10/12/2001 10.00	01/18/2002 10:00	04/15/2002 10:00
REPORT DATE:	August 20, 2001	November 07, 2001	February 25, 2002	May 7, 2002
QUARTER REPRESENTED:	Third 2001	Fourth 2001	First 2002	Second 2002
UNC SUBMITTAL #:	TE-11-7-2001	TE-16-10-2001	TE-2-1-2002	TE-6-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	1 0	341	330	406	356
Magnesium	EPA 200 7	mg/L	1 0	159	150	177	159
Sodium	EPA 200 7	mg/L	1 0	182	182	168	186
Potassium	EPA 200.7	mg/L	1 0	6 9	6 2	8 0	6 2
Bicarbonate	SM 2320-B	mg/L	0 10	430	371	355	379
Sulfate	EPA 200 7	mg/L	1 0	1630	1420	1550	1570
Chloride	EPA 200 7	mg/L	1 0	28 3	25 1	24 8	25 4
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 53	0 36	0 43	0 45
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	2760	2730	2760
pH	SM 4500-H-B	std units	0 10	7 57	7 70	7 20	7 29
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	< 0 001	< 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	1.20	1 08	1.34	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 0004	0 0005	0 0010	0 0008
Radium 226	EPA 903 0	pCi/L	0 2	1 4	1 3	1 3	1 1
Radium Error Estimate ±				0 3	0 2	0 2	0 2
Radium 228	EPA 904 0	pCi/L	1 0	4 3	2 6	11 7	1.7
Radium Error Estimate ±				1 1	1 2	1 0	1 0
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 6	< 1 0	1 3	1.8
G Alpha Error Estimate ±				1 2	-	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		41 8	36 4	38 8	39 6
Cation		meq		38 5	37 2	42.7	39 4
M A/C Balance		%	-5 - +5	-4 13	1 06	4 72	-0 31
Calc TDS		mg/L		2565	2301	2514	2494
TDS A/C Balance		dec %	0 80 - 1 20	1 08	1 20	1 09	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:	01-34625-4	C01100431-002	C02010514-008	C02040488-003
SAMPLE DATE/TIME:	07/16/2001 14.00	10/09/2001 09.00	01/14/2002 14:20	04/09/2002 10:50
DATE RECEIVED:	07/20/2001 10:30	10/12/2001 10.00	01/18/2002 10.00	04/15/2002 10.00
REPORT DATE:	August 20, 2001	November 07, 2001	February 25, 2002	May 7, 2002
QUARTER REPRESENTED:	Third 2001	Fourth 2001	First 2002	Second 2002
UNC SUBMITTAL #:	TE-11-7-2001	TE-16-10-2001	TE-2-1-2002	TE-6-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	1 0	343	330	409	351
Magnesium	EPA 200 7	mg/L	1 0	159	150	179	158
Sodium	EPA 200 7	mg/L	1 0	185	177	174	184
Potassium	EPA 200 7	mg/L	1 0	6 80	6 20	8 13	6.30
Bicarbonate	SM 2320-B	mg/L	0 10	331	338	334	336
Sulfate	EPA 200 7	mg/L	1 0	1610	1440	1600	1570
Chloride	EPA 200 7	mg/L	1.0	28 2	27 1	24 7	24 8
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 53	0 45	0 47	0 50
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	2720	2730	2770	2780
pH	SM 4500-H-B	std units	0 10	7 49	7.10	7 10	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-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	1.18	1.08	1 35	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 0006	0 0004	0 0008	0 0010
Radium 226	EPA 903 0	pCi/L	0 2	0 8	1.2	1 8	1 5
Radium Error Estimate ±				0.2	0.2	0 2	0 2
Radium 228	EPA 904 0	pCi/L	1 0	6 4	< 1 0	12.0	< 1 0
Radium Error Estimate ±				1 1		1.0	-
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 900.1	pCi/L	1 0	< 1 0	< 1 0	1 9	1 4
G Alpha Error Estimate ±				-	-	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		39 8	36 3	39 5	38 9
Cation		meq		38 7	36.9	43 2	39 0
M A/C Balance		%	-5 - +5	-1 34	0 87	4 51	0 08
Calc TDS		mg/L		2500	2301	2564	2464
TDS A/C Balance		dec %	0 80 - 1 20	1.09	1 19	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:	01-34434-3	C01100434-008	C02010513-003	C02040485-002
SAMPLE DATE/TIME:	07/11/2001 08:20	10/08/2001 13:40	01/15/2002 08:40	04/08/2002 09:50
DATE RECEIVED:	07/13/2001 10:30	10/12/2001 10:00	01/18/2002 10:00	04/15/2002 10.00
REPORT DATE:	August 2, 2001	November 07, 2001	February 25, 2002	May 7, 2002
QUARTER REPRESENTED:	Third 2001	Fourth 2001	First 2002	Second 2002
UNC SUBMITTAL #:	TE-10-7-2001	TE-16-10-2001	TE-2-1-2002	TE-6-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	1 0	541	450	547	482
Magnesium	EPA 200 7	mg L	1 0	576	480	551	500
Sodium	EPA 200 7	mg/L	1 0	106	80 8	95 2	97 2
Potassium	EPA 200 7	mg/L	1 0	11 1	10 2	12.1	11 2
Bicarbonate	SM 2320-B	mg/L	0 10	< 0 10	< 0 10	< 0 10	< 0 10
Sulfate	EPA 200 7	mg/L	1 0	3580	3100	3460	3360
Chloride	EPA 200 7	mg/L	1 0	30 4	27 0	21 0	21 9
Ammonia as N	SM 4500-NH3-G	mg L	0 05	0 80	0 70	0 54	0 61
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	< 0 10	< 0 10	< 0 10	1 00
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5410	5440	5380	5340
pH	SM 4500-H-B	std units	0 10	3 65	3 40	3 70	3 23
Trace Metals, dissolved							
Aluminum	EPA 200 8	mg/L	0 10	1.50	1 08	1 40	1 30
Arsenic III	SM 3114-C	mg/L	0 001	0 030	0 033	0 037	0 028
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 39	0 33	0 44	0 47
Lead	EPA 200 8	mg/L	0 05	< 0 05	< 0 05	< 0 05	< 0 05
Manganese	EPA 200 8	mg/L	0 01	7 57	5 91	8 13	8 23
Molybdenum	EPA 200 8	mg/L	0 10	< 0 10	< 0 10	0 14	0 10
Nickel	EPA 200 8	mg/L	0 05	0 37	0 29	0 42	0 43
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 0570	0 0534	0 0510	0 0463
Radium 226	EPA 903 0	pCi/L	0 2	12 2	8 7	10 0	11 4
Radium Error Estimate ±				1 4	0 9	1 0	1 5
Radium 228	EPA 904 0	pCi/L	1 0	19 1	17 0	26 1	23 6
Radium Error Estimate ±				1 4	1 6	2.0	1 8
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	12 7	12.1	10 6	14 1
G Alpha Error Estimate ±				1.1	1.0	1 7	1 1
Trace Organics							
Chloroform	EPA 624	µg/L	1 0	< 1 0	< 1 0	< 1.0	< 1 0

Quality Assurance Data		Target Range				
Anion	meq		75 4	65 4	72 7	70 7
Cation	meq		80 4	66 6	78 2	70 8
SM A/C Balance	%	-5 - +5	3 19	0 98	3 66	0 06
Calc TDS	mg/L		4854	4155	4696	4486
TDS A/C Balance	dec %	0 80 - 1 20	1 11	1 31	1 15	1 19

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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.	01-34434-4	C01100434-009	C02010513-004	C02040485-003
SAMPLE DATE/TIME:	07/11/2001 08·45	10/08/2001 14:00	01/15/2002 09:45	04/08/2002 10:20
DATE RECEIVED:	07/13/2001 10:30	10/12/2001 10:00	01/18/2002 10:00	04/15/2002 10.00
REPORT DATE:	August 2, 2001	November 07, 2001	February 25, 2002	May 7, 2002
QUARTER REPRESENTED:	Third 2001	Fourth 2001	First 2002	Second 2002
UNC SUBMITTAL #:	TE-10-7-2001	TE-16-10-2001	TE-2-1-2002	TE-6-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	1 0	539	450	552	482
Magnesium	EPA 200 7	mg/L	1 0	573	480	555	499
Sodium	EPA 200 7	mg/L	1 0	104	84 4	92 9	95 4
Potassium	EPA 200 7	mg/L	1 0	11 0	10 5	12 0	11 2
Bicarbonate	SM 2320-B	mg/L	0 10	8 00	7 90	8.54	4 90
Sulfate	EPA 200 7	mg/L	1 0	3520	3100	3460	3340
Chloride	EPA 200 7	mg/L	1 0	30 2	26 7	20 2	21 0
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 83	0 71	0 55	0 65
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	< 0 10	< 0 10	< 0 10	1 46
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5450	5410	5360	5360
pH	SM 4500-H-B	std units	0 10	5 33	5 00	5 20	5 22
Trace Metals, dissolved							
Aluminum	EPA 200 7	mg/L	0 10	1 30	1 09	1 30	1 30
Arsenic III	SM 3114-C	mg/L	0 001	0 032	0 031	0 041	0 030
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 34	0 44	0 46
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 75	6 15	8 03	8 31
Molybdenum	EPA 200 8	mg/L	0 10	< 0 10	< 0 10	0 20	0 10
Nickel	EPA 200 7	mg/L	0 05	0 34	0 32	0 41	0 43
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 0510	0 0483	0 0469	0 0442
Radium 226	EPA 903 0	pCi/L	0 2	13 6	8 7	9 1	12 1
Radium Error Estimate ±				1 4	0 8	0.9	1 2
Radium 228	EPA 904 0	pCi/L	1 0	19 1	17.0	23 8	23.3
Radium Error Estimate ±				1 5	1 6	2 0	2.3
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	11 9	11 1	12 1	13 9
G Alpha Error Estimate ±				1 1	1 0	1 8	1.1
Trace Organics							
Chloroform	EPA 624	µg/L	1 0	< 1 0	< 1.0	< 1 0	< 1 0

Quality Assurance Data		Target Range				
Anion	meq		74 3	65 5	72 8	70 4
Cation	meq		79 9	66 8	78.7	70 6
A/C Balance	%	-5 - +5	3 64	1 02	3 88	0 18
c TDS	mg/L		4789	4163	4706	4467
TDS A/C Balance	dec %	0 80 - 1 20	1 14	1.30	1 14	1 20

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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:	C02010344-009	C02020198-009	C02030206-009	C02040226-007
SAMPLE DATE/TIME:	01/08/2002 10:15	02/04/02 04:35	03/04/2002 14:20	04/01/2002 13:45
RECEIVED DATE/TIME:	01/11/2002 10:00	02/08/02 10.00	03/08/2002 10:00	04/08/2002 10:30
REPORT DATE:	February 4, 2002	March 13, 2002	April 2, 2002	April 27, 2002
UNC SUBMITTAL #:	TE-1-1-2002	TE-3-2-2002	TE-4-3-2002	TE-5-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	0 05	841	808	764	791
Magnesium	EPA 200 7	mg/L	0 01	408	398	408	419
Sodium	EPA 200 7	mg/L	0 05	173	206	260	240
Potassium	EPA 200 7	mg/L	0 10	6 9	6 2	4 4	6 2
Bicarbonate	SM 2320-B	mg/L	0 10	991	1010	1080	1100
Sulfate	EPA 200 7	mg/L	1 0	2650	2530	2630	2620
Chloride	EPA 200.7	mg/L	1 0	157	167	151	162
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 59	0 59	0 60	0 58
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	82 0	80.5	92 2	83 2
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5310	5360	5360	5470
pH	SM 4500-H-B	std units	0 10	7 20	7 40	7 30	7 38
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 0976	0 0926	0 108	0 102
Radium 226	EPA 903 0	pCi/L	0 2	0 3	< 0 2	< 0 2	< 0.2
Radium Error Estimate ±				0 2	-	-	-
Radium 228	EPA 904.0	pCi/L	1 0	< 1 0	1.8	< 1 0	< 1 0
Radium Error Estimate ±				-	1 4	-	-
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		81 7	79 7	83.3	83 1
tion	meq		83 8	82 7	83 7	85 1
A A/C Balance	%	-5 - +5	1 24	1 85	0 20	1 18
Calc TDS	mg/L		5095	4978	5167	5158
TDS A/C Balance	dec %	0 80 - 1.20	1 04	1 08	1 04	1 06

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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
LABORATORY ID:	C01120222-010	C02010344-010
SAMPLE DATE/TIME:	12/04/2001 10:00	01/08/2002 10:40
RECEIVED DATE/TIME:	12/07/2001 10.00	01/11/2002 10:00
REPORT DATE:	December 29, 2001	February 4, 2002
UNC SUBMITTAL #:	TE-18-12-2001	TE-1-1-2002

Major Ions	Method	Units	Reporting Limit	Results	Results
Calcium	EPA 200.7	mg/L	0 05	716	844
Magnesium	EPA 200.7	mg/L	0 01	351	401
Sodium	EPA 200 7	mg/L	0 05	219	176
Potassium	EPA 200 7	mg/L	0 10	3 9	6 8
Bicarbonate	SM 2320-B	mg/L	0 10	946	978
Sulfate	EPA 200 7	mg/L	1 0	2250	2660
Chloride	EPA 200 7	mg/L	1 0	137	159
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0 46	0 51
Nitrate + Nitrite as N	EPA 353.2	mg/L	0 10	96 0	81.5
Non-Metals					
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5260	5260
pH	SM 4500-H-B	std units	0 10	7 40	7.30
Trace Metals, dissolved					
Aluminum	EPA 200 8	mg/L	0 10	< 0.10	< 0 10
Arsenic III	SM 3114-B	mg/L	0 001	< 0 001	< 0 001
Beryllium	EPA 200.8	mg/L	0 01	< 0 01	< 0 01
Cadmium	EPA 200 8	mg/L	0.005	< 0 005	< 0.005
Cobalt	EPA 200 8	mg/L	0 01	< 0 01	< 0 01
Lead	EPA 200 8	mg/L	0.05	< 0.05	< 0 05
Manganese	EPA 200 8	mg/L	0 01	0.03	0 04
Molybdenum	EPA 200 8	mg/L	0 10	< 0 10	< 0.10
Nickel	EPA 200 8	mg/L	0 05	< 0 05	< 0 05
Selenium IV	SM 3114-B	mg/L	0.001	< 0 001	< 0.001
Vanadium	EPA 200 8	mg/L	0 10	< 0 10	< 0 10
Radiometrics					
Uranium, dissolved	EPA 200 8	mg/L	0 0003	0 0950	0.102
Radium 226	EPA 903 0	pCi/L	0 2	< 0 2	< 0.2
Radium Error Estimate ±				-	-
Radium 228	EPA 904 0	pCi/L	1 0	< 1 0	< 1 0
Radium Error Estimate ±				-	-
Thorium 230	EPA 907 0	pCi/L	0 2	< 0.2	< 0 2
Thorium Error Estimate ±				-	-
Lead 210	NERHL-65-4	pCi/L	1 0	< 1 0	< 1.0
Lead Error Estimate ±				-	-
Gross Alpha	EPA 900 0	pCi/L	1 0	< 1 0	< 1 0
G Alpha Error Estimate ±				-	-
Trace Organics					
Chloroform	EPA 8260	µg/L	1.0	< 1 0	< 1.0

Quality Assurance Data		Target Range		
Anion	meq		73 1	81 7
Cation	meq		74 7	83 5
SM A/C Balance	%	-5 - +5	1.09	1.05
Calc TDS	mg/L		4576	5098
TDS A/C Balance	dec %	0.80 - 1 20	1 15	1 03

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

WELL ID:	624	624 Duplicate	624	624 Duplicate
LABORATORY ID:	C02030206-010	C02030206-011	C02040226-010	C02040226-011
SAMPLE DATE/TIME:	03/05/2002 08:40	03/05/2002 09.05	04/02/2002 09:00	04/02/2002 09:25
RECEIVED DATE/TIME:	03/08/202 10:00	03/08/2002 10:00	04/08/2002 10:30	04/08/2002 10:30
REPORT DATE:	April 2, 2002	April 2, 2002	April 27, 2002	April 27, 2002
UNC SUBMITTAL #:	TE-4-3-2002	TE-4-3-2002	TE-5-4-2002	TE-5-4-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0 05	726	714	748	741
Magnesium	EPA 200 7	mg/L	0 01	463	456	464	459
Sodium	EPA 200.7	mg/L	0 05	228	223	225	220
Potassium	EPA 200 7	mg/L	0 10	6 8	6 6	8 3	8.0
Bicarbonate	SM 2320-B	mg/L	0 10	1530	1530	1500	1500
Sulfate	EPA 200 7	mg/L	1 0	2190	2170	2180	2130
Chloride	EPA 200 7	mg/L	1 0	207	193	203	206
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 06	0 06	0.06	0 05
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	95 1	97 2	95 5	95 7
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5170	5130	5270	5210
pH	SM 4500-H-B	std units	0 10	7 20	7 50	7 45	7 48
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 03
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 0351	0 0370	0 0326	0 0338
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 5
G Alpha Error Estimate ±				-	-	-	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		80 9	82 7	82 5	81 6
ion	meq		85 1	83 6	86 1	85 1
A/C Balance	%	-5 - +5	2 54	0 54	2 09	2 08
Calc TDS	mg/L		4899	4958	5001	4938
TDS A/C Balance	dec %	0 80 - 1 20	1 06	1 03	1 05	1 06

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APPENDIX A

MONTHLY

FIELD DATA SHEETS

GROUND WATER MONITORING FIELD DATA SHEET
FEB. 1ST QUARTER 2002 SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	509-D	68.70'	68.70'	1st Cond. 5,090	2nd Cond. 5,230	Stable Cond. 5,430	Ending Cond 5,450
				1st pH 6.90	2nd pH 6.85	Stable pH 6.74	Ending pH 6.48
				1st Temp. 9.7	2nd Temp. 9.5	Stable Temp. 9.1	Ending Temp. 10.5
	Time	Bubbler Start	Bubbler End	Comments: CONDUCTIVITY IS IN µS/cm TEMPERATURE IS IN °C PH IS IN STD. UNITS			
	0830	11.389'	11.373'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	EPA-23	48.35'	48.60'	1st Cond 4,220	2nd Cond. 4,260	Stable Cond. 4,250	Ending Cond. 4,200
				1st pH 7.48	2nd pH 7.44	Stable pH 7.30	Ending pH 6.80
				1st Temp 7.1	2nd Temp. 7.2	Stable Temp 7.8	Ending Temp 11.0
	Time	Bubbler Start	Bubbler End	Comments:			
	0905	13.305'	13.044'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	803	57.80'	57.95'	1st Cond. 3,880	2nd Cond. 4,680	Stable Cond. 6,200	Ending Cond 6,280
				1st pH 6.67	2nd pH 6.63	Stable pH 6.57	Ending pH 6.46
				1st Temp. 9.0	2nd Temp. 9.3	Stable Temp. 9.7	Ending Temp. 12.1
	Time	Bubbler Start	Bubbler End	Comments:			
	0935	18.754'	18.589'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	808	45.60'	45.60'	1st Cond. 3,200	2nd Cond. 5,570	Stable Cond. 6,280	Ending Cond. 6,430
				1st pH 7.33	2nd pH 7.17	Stable pH 6.75	Ending pH 6.52
				1st Temp. 9.8	2nd Temp. 10.1	Stable Temp. 10.6	Ending Temp. 11.8
	Time	Bubbler Start	Bubbler End	Comments.			
	1005	17.744'	17.697'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	802	44.30'	44.30'	1st Cond. 5,810	2nd Cond. 6,400	Stable Cond. 6,530	Ending Cond. 6,440
				1st pH 6.31	2nd pH 6.71	Stable pH 6.58	Ending pH 6.50
				1st Temp. 10.3	2nd Temp 10.7	Stable Temp 11.1	Ending Temp. 12.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	23.038'	22.993'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	632	41.50'	41.75'	1st Cond. 3,160	2nd Cond. 5,280	Stable Cond. 6,520	Ending Cond 6,530
				1st pH 7.17	2nd pH 7.00	Stable pH 6.72	Ending pH 6.37
				1st Temp. 10.1	2nd Temp. 10.1	Stable Temp. 10.5	Ending Temp 11.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1110	15.128'	14.995'				

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	801	48.10'	49.00'	1st Cond. 3,760	2nd Cond. 5,340	Stable Cond. 6,310	Ending Cond. 6,530
	Time	Bubbler Start	Bubbler End	1st pH 7.03	2nd pH 7.09	Stable pH 6.64	Ending pH 6.45
	1330	13.291'	12.412'	1st Temp. 12.8	2nd Temp. 12.5	Stable Temp. 11.9	Ending Temp. 12.4
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	GW-2	52.55'	52.90'	1st Cond. 4,200	2nd Cond. 5,180	Stable Cond. 5,310	Ending Cond. 5,180
	Time	Bubbler Start	Bubbler End	1st pH 7.23	2nd pH 7.18	Stable pH 7.08	Ending pH 6.57
	1400	17.753'	17.439'	1st Temp. 7.8	2nd Temp. 7.5	Stable Temp. 7.3	Ending Temp. 9.7
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-4-02	GW-1	58.75'	58.75'	1st Cond. 3,430	2nd Cond 4,630	Stable Cond. 4,980	Ending Cond 5,150
	Time	Bubbler Start	Bubbler End	1st pH 7.39	2nd pH 7.40	Stable pH 7.35	Ending pH 6.87
	1435	11.609'	11.598'	1st Temp. 9.4	2nd Temp. 9.5	Stable Temp. 9.6	Ending Temp 10.6
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	624	48.60'	48.65'	1st Cond. 4,210	2nd Cond. 4,870	Stable Cond. 5,140	Ending Cond. 5,260
	Time	Bubbler Start	Bubbler End	1st pH 7.25	2nd pH 7.30	Stable pH 6.89	Ending pH 6.78
	0900	13.751'	13.668'	1st Temp. 12.6	2nd Temp. 12.4	Stable Temp. 11.4	Ending Temp. 10.8
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	624 DUPLICATE	48.65'	48.60'	1st Cond. 5,260	2nd Cond. 5,310	Stable Cond. 5,310	Ending Cond. 5,270
	Time	Bubbler Start	Bubbler End	1st pH 6.78	2nd pH 6.74	Stable pH 6.72	Ending pH 6.78
	0930	13.668'	13.654'	1st Temp 10.8	2nd Temp. 10.6	Stable Temp. 10.5	Ending Temp. 9.8
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	EPA-28	60.30'	60.55'	1st Cond. 3,560	2nd Cond. 4,320	Stable Cond. 4,840	Ending Cond. 4,820
	Time	Bubbler Start	Bubbler End	1st pH 7.60	2nd pH 7.59	Stable pH 7.53	Ending pH 7.01
	1000	9.615'	9.554'	1st Temp. 7.6	2nd Temp. 7.4	Stable Temp. 7.7	Ending Temp 10.8
				Comments:			

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	GW-3	50.20'	50.65'	1st Cond. 3,360	2nd Cond. 3,600	Stable Cond. 4,700	Ending Cond. 5,030
				1st pH 7.34	2nd pH 7.34	Stable pH 7.27	Ending pH 6.91
				1st Temp. 10.4	2nd Temp. 9.3	Stable Temp. 9.3	Ending Temp 10.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1040	5.115'	4.640'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	EPA-25	51.10'	51.20'	1st Cond 3,050	2nd Cond. 3,580	Stable Cond. 3,910	Ending Cond. 4,120
				1st pH 7.34	2nd pH 7.32	Stable pH 7.29	Ending pH 7.08
				1st Temp 7.8	2nd Temp. 8.0	Stable Temp. 8.8	Ending Temp 10.9
	Time	Bubbler Start	Bubbler End	Comments.			
	1120	6.412'	6.961'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	627	54.60'	54.70'	1st Cond. 3,980	2nd Cond 4,400	Stable Cond. 5,220	Ending Cond. 5,280
				1st pH 7.78	2nd pH 7.76	Stable pH 7.61	Ending pH 7.34
				1st Temp. 11.6	2nd Temp. 11.3	Stable Temp 11.0	Ending Temp. 11.4
	Time	Bubbler Start	Bubbler End	Comments			
	1310	7.657'	7.582'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
2-5-02	FIELD BLANK			1st Cond. 19	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 8.87	2nd pH	Stable pH	Ending pH
				1st Temp. 11.0	2nd Temp.	Stable Temp.	Ending Temp.
	Time	Bubbler Start	Bubbler End	Comments:			
	1350						

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:			

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	509-D	68.80'	68.90'	1st Cond. 3,150	2nd Cond. 4,630	Stable Cond. 5,570	Ending Cond 5,630
				1st pH 7.04	2nd pH 7.00	Stable pH 6.75	Ending pH 6.45
				1st Temp. 10.4	2nd Temp. 10.3	Stable Temp. 10.2	Ending Temp. 10.3
	Time	Bubbler Start	Bubbler End	Comments:			
	0910	11.288'	11.269'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	EPA-23	48.45'	48.60'	1st Cond. 3,400	2nd Cond. 4,050	Stable Cond. 4,330	Ending Cond. 4,300
				1st pH 7.33	2nd pH 7.31	Stable pH 7.26	Ending pH 6.73
				1st Temp. 8.5	2nd Temp. 8.6	Stable Temp 8.7	Ending Temp. 11.0
	Time	Bubbler Start	Bubbler End	Comments:			
	0940	13.271'	13.040'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	803	57.9'	58.0'	1st Cond. 3,610	2nd Cond. 4,840	Stable Cond. 6,370	Ending Cond. 6,470
				1st pH 6.80	2nd pH 6.71	Stable pH 6.58	Ending pH 6.42
				1st Temp. 10.3	2nd Temp 10.4	Stable Temp 10.7	Ending Temp 12.4
	Time	Bubbler Start	Bubbler End	Comments:			
	1005	18.676'	18.555'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	808	45.65'	45.75'	1st Cond. 2,450	2nd Cond 5,600	Stable Cond 6,530	Ending Cond. 6,530
				1st pH 7.27	2nd pH 7.18	Stable pH 6.77	Ending pH 6.49
				1st Temp. 10.6	2nd Temp 10.8	Stable Temp. 11.0	Ending Temp. 12.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1030	17.789'	17.680'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	802	44.35'	44.40'	1st Cond. 5,080	2nd Cond. 6,230	Stable Cond. 6,720	Ending Cond 6,540
				1st pH 6.95	2nd pH 6.81	Stable pH 6.51	Ending pH 6.48
				1st Temp. 12.0	2nd Temp. 11.7	Stable Temp. 11.8	Ending Temp 12.5
	Time	Bubbler Start	Bubbler End	Comments.			
	1055	23.069'	23.024'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	632	41.55'	41.75'	1st Cond. 5,450	2nd Cond. 6,360	Stable Cond. 6,680	Ending Cond 6,670
				1st pH 7.16	2nd pH 7.06	Stable pH 6.68	Ending pH 6.36
				1st Temp. 11.5	2nd Temp. 11.5	Stable Temp. 11.5	Ending Temp. 11.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1125	15.161'	15.049'				

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	801	48.15'	48.95'	1st Cond. 5,200	2nd Cond. 5,920	Stable Cond. 6,160	Ending Cond. 6,510
	Time	Bubbler Start	Bubbler End	1st pH 7.10	2nd pH 7.11	Stable pH 6.85	Ending pH 6.41
	1320	13.390'	12.497'	1st Temp. 13.7	2nd Temp. 13.5	Stable Temp. 12.8	Ending Temp 13.1
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	GW-2	52.80'	53.10'	1st Cond. 3,780	2nd Cond. 4,930	Stable Cond 5,400	Ending Cond. 5,160
	Time	Bubbler Start	Bubbler End	1st pH 7.06	2nd pH 7.02	Stable pH 6.82	Ending pH 6.49
	1350	17.735'	17.417'	1st Temp. 11.4	2nd Temp. 10.9	Stable Temp 9.7	Ending Temp. 11.5
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-4-02	GW-1	58.75'	58.90'	1st Cond. 3,080	2nd Cond. 4,450	Stable Cond 5,060	Ending Cond 5,240
	Time	Bubbler Start	Bubbler End	1st pH 7.26	2nd pH 7.28	Stable pH 7.17	Ending pH 6.70
	1420	11.798'	11.783'	1st Temp 12.8	2nd Temp. 12.5	Stable Temp. 12.0	Ending Temp 12.2
				Comments.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	624	48.60'	48.65'	1st Cond 2,990	2nd Cond. 4,250	Stable Cond 5,250	Ending Cond 5,230
	Time	Bubbler Start	Bubbler End	1st pH 7.28	2nd pH 7.14	Stable pH 6.85	Ending pH 6.61
	0840	13.730'	13.694'	1st Temp. 9.3	2nd Temp. 9.4	Stable Temp. 9.9	Ending Temp. 12.1
				Comments.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	624 DUPLICATE	48.65'	48.65'	1st Cond 5,230	2nd Cond. 5,255	Stable Cond. 5,280	Ending Cond. 5,260
	Time	Bubbler Start	Bubbler End	1st pH 6.61	2nd pH 6.59	Stable pH 6.58	Ending pH 6.57
	0905	13.694'	13.662'	1st Temp. 12.1	2nd Temp. 11.9	Stable Temp 11.7	Ending Temp. 12.4
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	EPA-28	60.40'	60.50'	1st Cond. 3,830	2nd Cond 4,130	Stable Cond. 4,910	Ending Cond. 4,890
	Time	Bubbler Start	Bubbler End	1st pH 7.50	2nd pH 7.48	Stable pH 7.43	Ending pH 6.81
	0935	9.752'	9.639'	1st Temp. 12.3	2nd Temp. 12.1	Stable Temp. 11.5	Ending Temp. 12.2
				Comments:			

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	GW-3	50.15'	50.60'	1st Cond. 2,900	2nd Cond. 4,060	Stable Cond. 5,020	Ending Cond 5,180
				1st pH 7.17	2nd pH 7.15	Stable pH 6.76	Ending pH 6.77
				1st Temp. 12.8	2nd Temp. 12.7	Stable Temp. 12.4	Ending Temp. 13.1
	Time	Bubbler Start	Bubbler End	Comments:			
	1020	5.203'	4.807'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	EPA-25	51.10'	51.20'	1st Cond 2,570	2nd Cond. 3,830	Stable Cond 4,060	Ending Cond 4,130
				1st pH 7.52	2nd pH 7.48	Stable pH 7.36	Ending pH 6.98
				1st Temp 13.3	2nd Temp 13.1	Stable Temp 12.7	Ending Temp. 12.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1105	9.525'	9.370'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	627	54.60'	54.70'	1st Cond. 3,940	2nd Cond. 4,460	Stable Cond. 5,110	Ending Cond. 5,290
				1st pH 7.17	2nd pH 7.19	Stable pH 7.09	Ending pH 7.17
				1st Temp 14.7	2nd Temp. 14.3	Stable Temp. 13.5	Ending Temp. 13.4
	Time	Bubbler Start	Bubbler End	Comments.			
	1255	7.698'	7.638'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
3-5-02	FIELD BLANK			1st Cond 14	2nd Cond.	Stable Cond.	Ending Cond.
				1st pH 8.68	2nd pH	Stable pH	Ending pH
				1st Temp. 18.7	2nd Temp.	Stable Temp	Ending Temp
	Time	Bubbler Start	Bubbler End	Comments:			
	1335						

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:			

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	509-D	68.95'	68.98'	1st Cond. 4,130	2nd Cond. 4,220	Stable Cond. 4,350	Ending Cond. 4,390
				1st pH 6.86	2nd pH 6.79	Stable pH 6.65	Ending pH 6.38
				1st Temp. 13.4	2nd Temp. 13.3	Stable Temp. 13.2	Ending Temp. 13.5
	Time	Bubbler Start	Bubbler End	Comments: CONDUCTIVITY IS IN µS/CM TEMPERATURE IS IN °C PH IS IN STD. UNITS			
	0900	9.851'	11.262'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	EPA-23	48.34'	48.60'	1st Cond. 3,320	2nd Cond. 3,260	Stable Cond. 3,280	Ending Cond. 3,420
				1st pH 6.87	2nd pH 6.84	Stable pH 6.79	Ending pH 6.62
				1st Temp. 15.0	2nd Temp 14.7	Stable Temp 14.6	Ending Temp. 15.9
	Time	Bubbler Start	Bubbler End	Comments			
	0940	13.450'	13.257'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	803	57.65'	57.83'	1st Cond. 3,340	2nd Cond. 5,200	Stable Cond 5,110	Ending Cond. 5,240
				1st pH 6.48	2nd pH 6.46	Stable pH 6.43	Ending pH 6.37
				1st Temp. 17.0	2nd Temp. 16.7	Stable Temp. 15.5	Ending Temp. 15.3
	Time	Bubbler Start	Bubbler End	Comments:			
	1010	16.479'	17.756'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	808	45.36'	45.50'	1st Cond. 4,700	2nd Cond. 4,970	Stable Cond. 5,030	Ending Cond. 5,300
				1st pH 6.73	2nd pH 6.73	Stable pH 6.53	Ending pH 6.39
				1st Temp. 16.9	2nd Temp. 16.2	Stable Temp. 15.3	Ending Temp. 15.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1045	18.179'	18.066'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	802	44.08'	44.18'	1st Cond. 5,270	2nd Cond. 5,250	Stable Cond. 5,420	Ending Cond. 5,450
				1st pH 6.40	2nd pH 6.38	Stable pH 6.35	Ending pH 6.36
				1st Temp. 17.2	2nd Temp. 16.7	Stable Temp. 15.7	Ending Temp 16.2
	Time	Bubbler Start	Bubbler End	Comments:			
	1110	23.470'	23.333'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	632	41.28'	41.45'	1st Cond. 2,030	2nd Cond. 5,300	Stable Cond. 5,290	Ending Cond. 5,590
				1st pH 6.74	2nd pH 6.75	Stable pH 6.39	Ending pH 6.22
				1st Temp. 18.5	2nd Temp. 17.4	Stable Temp. 15.6	Ending Temp. 16.6
	Time	Bubbler Start	Bubbler End	Comments:			
	1140	15.501'	15.322'				

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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	801	47.89'	48.29'	1st Cond. 3,600	2nd Cond. 5,090	Stable Cond. 5,230	Ending Cond. 5,470
	Time	Bubbler Start	Bubbler End	1st pH 6.74	2nd pH 6.88	Stable pH 6.61	Ending pH 6.35
	1340	3.772'	4.027'	1st Temp. 22.6	2nd Temp. 19.3	Stable Temp. 17.8	Ending Temp. 16.6
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	GW-2	52.58'	52.86'	1st Cond. 3,930	2nd Cond. 4,370	Stable Cond. 4,200	Ending Cond. 4,330
	Time	Bubbler Start	Bubbler End	1st pH 6.37	2nd pH 6.40	Stable pH 6.40	Ending pH 6.38
	1415	18.060'	17.750'	1st Temp 18.3	2nd Temp. 17.1	Stable Temp. 15.9	Ending Temp. 15.2
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	GW-1	58.55'	58.62'	1st Cond 3,540	2nd Cond. 4,230	Stable Cond. 4,070	Ending Cond. 4,460
	Time	Bubbler Start	Bubbler End	1st pH 6.77	2nd pH 6.92	Stable pH 6.90	Ending pH 6.63
	1450	12.040'	11.985'	1st Temp. 20.4	2nd Temp 19.2	Stable Temp. 17.4	Ending Temp 17.1
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-6-02	GW-1 DUPLICATE	58.62'	58.63'	1st Cond. 4,460	2nd Cond. 4,450	Stable Cond. 4,440	Ending Cond. 4,460
	Time	Bubbler Start	Bubbler End	1st pH 6.63	2nd pH 6.60	Stable pH 6.60	Ending pH 6.70
	1510	11.985'	11.960'	1st Temp 17.1	2nd Temp. 16.7	Stable Temp. 16.4	Ending Temp 17.5
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-7-02	624	48.62'	48.65'	1st Cond. 3,770	2nd Cond. 3,930	Stable Cond. 3,940	Ending Cond. 4,160
	Time	Bubbler Start	Bubbler End	1st pH 7.19	2nd pH 7.03	Stable pH 6.80	Ending pH 6.59
	0845	13.986'	13.888'	1st Temp. 16.6	2nd Temp. 15.8	Stable Temp. 14.7	Ending Temp. 14.1
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
5-7-02	EPA-28	60.25'	60.38'	1st Cond. 2,110	2nd Cond. 3,480	Stable Cond. 3,650	Ending Cond. 3,940
	Time	Bubbler Start	Bubbler End	1st pH 6.85	2nd pH 6.92	Stable pH 6.93	Ending pH 6.80
	0950	10.005'	9.970'	1st Temp. 16.4	2nd Temp. 16.0	Stable Temp. 15.1	Ending Temp. 15.2
				Comments:			

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				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,670	2nd Cond. 3,680	Stable Cond. 3,630	Ending Cond. 4,330
Date	GW-3	Pre-Sample	Post Sample	1st pH 7.02	2nd pH 7.02	Stable pH 6.96	Ending pH 6.51
		50.08'	50.43'	1st Temp. 16.3	2nd Temp. 15.8	Stable Temp. 15.3	Ending Temp. 15.7
5-7-02	Time	Bubbler Start	Bubbler End	Comments: NO DISPLAY ON BUBBLER (ELECTRONIC WATER LEVEL METER) WHEN TURNED ON.			
	1040						

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,000	2nd Cond. 3,220	Stable Cond. 3,210	Ending Cond. 3,340
Date	EPA-25	Pre-Sample	Post Sample	1st pH 7.03	2nd pH 7.06	Stable pH 7.05	Ending pH 6.95
		51.00'	51.18'	1st Temp. 17.6	2nd Temp. 16.8	Stable Temp. 15.9	Ending Temp. 15.4
5-7-02	Time	Bubbler Start	Bubbler End	Comments DISPLAY READING RESTARTED ON BUBBLER (ELECTRONIC WATER LEVEL METER) WHEN TURNED ON.			
	1130	9.783'	9.694'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,380	2nd Cond. 4,070	Stable Cond. 4,255	Ending Cond. 4,400
Date	627	Pre-Sample	Post Sample	1st pH 7.26	2nd pH 7.30	Stable pH 7.17	Ending pH 7.09
		54.67'	54.73'	1st Temp. 18.5	2nd Temp. 17.7	Stable Temp. 16.4	Ending Temp. 16.3
5-7-02	Time	Bubbler Start	Bubbler End	Comments. NO DISPLAY ON BUBBLER END READING. METER WILL BE SENT IN FOR REPAIR.			
	1300	7.827'					

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 18	2nd Cond	Stable Cond.	Ending Cond.
Date	FIELD BLANK	Pre-Sample	Post Sample	1st pH 8.48	2nd pH	Stable pH	Ending pH
				1st Temp. 22.5	2nd Temp.	Stable Temp.	Ending Temp.
5-7-02	Time	Bubbler Start	Bubbler End	Comments:			
	1350						

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

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

MONTHLY
GROUND WATER MONITORING FIELD DATA SHEET
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Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	509-D	69.00'	69.00'	1st Cond. 4,220	2nd Cond. 4,340	Stable Cond. 4,480	Ending Cond. 4,490
	Time	Bubbler Start	Bubbler End	1st pH 6.91	2nd pH 6.85	Stable pH 6.62	Ending pH 6.36
	0915			1st Temp. 17.4	2nd Temp. 16.8	Stable Temp. 15.8	Ending Temp. 15.8
				Comments: CONDUCTIVITY IS IN µS/cm TEMPERATURE IS IN °C PH IS IN STD. UNITS			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	EPA-23	48.28'	48.52'	1st Cond. 2,780	2nd Cond. 2,750	Stable Cond 3,550	Ending Cond. 3,420
	Time	Bubbler Start	Bubbler End	1st pH 6.90	2nd pH 6.79	Stable pH 6.70	Ending pH 6.61
	1000			1st Temp. 20.3	2nd Temp. 18.7	Stable Temp. 17.4	Ending Temp 15.5
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	803	57.50'	57.58'	1st Cond. 2,460	2nd Cond. 4,340	Stable Cond. 5,240	Ending Cond. 5,480
	Time	Bubbler Start	Bubbler End	1st pH 6.53	2nd pH 6.48	Stable pH 6.42	Ending pH 6.32
	1035			1st Temp. 20.2	2nd Temp. 18.7	Stable Temp. 17.0	Ending Temp. 17.0
				Comments: BUBBLER WAS SENT IN FOR REPAIR ON 5-20-02 AND A REPLACEMENT DID NOT ARRIVE ON SITE UNTIL 6-3-02 @ 1045.			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	808	45.25'	45.42'	1st Cond. 4,860	2nd Cond. 5,380	Stable Cond. 5,280	Ending Cond. 5,510
	Time	Bubbler Start	Bubbler End	1st pH 6.62	2nd pH 6.56	Stable pH 6.44	Ending pH 6.35
	1105	18.330'	18.204'	1st Temp 20.0	2nd Temp 19.2	Stable Temp 17.6	Ending Temp 17.4
				Comments			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	802	44.05'	44.10'	1st Cond. 4,020	2nd Cond. 5,570	Stable Cond. 6,380	Ending Cond. 5,720
	Time	Bubbler Start	Bubbler End	1st pH 6.43	2nd pH 6.39	Stable pH 5.69	Ending pH 6.34
	1135	23.577'	23.522'	1st Temp. 20.8	2nd Temp. 19.5	Stable Temp. 18.4	Ending Temp. 16.3
				Comments:			

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	801	47.87'	48.75'	1st Cond. 2,740	2nd Cond. 5,660	Stable Cond. 5,380	Ending Cond. 5,360
	Time	Bubbler Start	Bubbler End	1st pH 6.97	2nd pH 6.91	Stable pH 6.50	Ending pH 6.33
	1310	[illegible]	[illegible]	1st Temp. 21.7	2nd Temp. 21.0	Stable Temp. 18.3	Ending Temp. 16.6
				Comments:			

MONTHLY
GROUND WATER MONITORING FIELD DATA SHEET
JUNE Month 20 02
SAMPLING

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	GW-2	52.57'	52.89'	1st Cond. 2,530	2nd Cond. 4,450	Stable Cond. 4,250	Ending Cond. 4,380
				1st pH 6.35	2nd pH 6.34	Stable pH 6.36	Ending pH 6.36
				1st Temp. 20.4	2nd Temp. 19.0	Stable Temp. 16.7	Ending Temp. 17.0
	Time	Bubbler Start	Bubbler End	Comments:			
	1345	18.163'	17.832'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	GW-1	58.53'	58.56'	1st Cond. 3,660	2nd Cond. 4,400	Stable Cond. 4,260	Ending Cond. 4,510
				1st pH 7.06	2nd pH 7.07	Stable pH 6.91	Ending pH 6.58
				1st Temp. 21.4	2nd Temp. 20.7	Stable Temp. 18.5	Ending Temp 17.5
	Time	Bubbler Start	Bubbler End	Comments:			
	1415	12.140'	12.111'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-3-02	632	41.19'	41.43'	1st Cond 2,450	2nd Cond. 5,720	Stable Cond. 5,380	Ending Cond 5,570
				1st pH 6.90	2nd pH 6.79	Stable pH 6.47	Ending pH 6.24
				1st Temp. 21.6	2nd Temp. 20.3	Stable Temp. 17.7	Ending Temp. 16.9
	Time	Bubbler Start	Bubbler End	Comments:			
	1450	15.755'	15.533'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-4-02	624	48.60'	48.64'	1st Cond 3,540	2nd Cond. 3,920	Stable Cond. 4,090	Ending Cond. 4,280
				1st pH 6.99	2nd pH 6.91	Stable pH 6.63	Ending pH 6.52
				1st Temp. 17.3	2nd Temp. 16.9	Stable Temp. 15.0	Ending Temp 16.0
	Time	Bubbler Start	Bubbler End	Comments:			
	0900	13.900'	13.874'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-4-02	624 DUPLICATE	48.64'	48.67'	1st Cond. 4,280	2nd Cond. 4,250	Stable Cond. 4,250	Ending Cond. 4,280
				1st pH 6.52	2nd pH 6.53	Stable pH 6.51	Ending pH 6.51
				1st Temp. 16.0	2nd Temp. 15.4	Stable Temp. 15.2	Ending Temp. 15.7
	Time	Bubbler Start	Bubbler End	Comments:			
	0930	13.874'	13.872'				

Date	Well Number	WL w/Probe Pre-Sample	WL w/Probe Post Sample	Reading	Reading	Reading	Reading
6-4-02	EPA-28	60.11'	60.33'	1st Cond. 2,960	2nd Cond. 4,090	Stable Cond. 3,990	Ending Cond. 4,010
				1st pH 7.14	2nd pH 7.17	Stable pH 7.09	Ending pH 6.74
				1st Temp. 18.9	2nd Temp. 18.3	Stable Temp. 16.8	Ending Temp. 16.5
	Time	Bubbler Start	Bubbler End	Comments:			
	0855	[illegible]	[illegible]				

MONTHLY
GROUND WATER MONITORING FIELD DATA SHEET
JUNE Month 2002.
SAMPLING

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 4,120	2nd Cond. 4,080	Stable Cond. 4,210	Ending Cond. 4,510
Date	GW-3	Pre-Sample	Post Sample	1st pH 6.93	2nd pH 6.93	Stable pH 6.65	Ending pH 6.68
		50.05'	50.48'	1st Temp. 19.3	2nd Temp. 18.2	Stable Temp. 17.3	Ending Temp. 18.0
6-4-02	Time	Bubbler Start	Bubbler End	Comments:			
	1045	5.500'	5.122'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 3,120	2nd Cond. 3,370	Stable Cond. 3,300	Ending Cond. 3,360
Date	EPA-25	Pre-Sample	Post Sample	1st pH 6.91	2nd pH 6.96	Stable pH 6.97	Ending pH 6.90
		51.05'	51.09'	1st Temp. 20.6	2nd Temp. 19.6	Stable Temp 17.9	Ending Temp. 16.2
6-4-02	Time	Bubbler Start	Bubbler End	Comments:			
	1130	9.797'	9.681'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 2,040	2nd Cond. 4,100	Stable Cond. 4,130	Ending Cond. 4,230
Date	627	Pre-Sample	Post Sample	1st pH 7.14	2nd pH 7.23	Stable pH 7.25	Ending pH 7.17
		54.79'	54.87'	1st Temp. 18.9	2nd Temp. 18.1	Stable Temp. 16.7	Ending Temp. 15.0
6-4-02	Time	Bubbler Start	Bubbler End	Comments:			
	1310	7.726'	7.626'				

				Reading	Reading	Reading	Reading
	Well Number	WL w/Probe	WL w/Probe	1st Cond. 19	2nd Cond.	Stable Cond.	Ending Cond.
Date	FIELD	Pre-Sample	Post Sample	1st pH 8.11	2nd pH	Stable pH	Ending pH
	BLANK			1st Temp. 25.1	2nd Temp.	Stable Temp.	Ending Temp.
6-4-02	Time	Bubbler Start	Bubbler End	Comments:			
	1350						

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

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

APPENDIX A

MONTHLY SAMPLING

SEMI-ANNUAL GROUND WATER MONITORING REPORT

FEBRUARY, MARCH, MAY, AND JUNE OF 2002

QA AND QC CONTROLS

FIELD BLANK

624 AND 624 DUPLICATE FOR SW ALLUVIUM

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

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

WELL ID:	Field Blank
LABORATORY ID:	C02020198-016
SAMPLE DATE/TIME:	02/05/02 13:50
DATE/TIME RECEIVED:	02/08/02 10:00
REPORT DATE:	March 13, 2002
UNC SUBMITTAL #:	TE-3-2-2002

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 70
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 Alpha	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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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	Field Blank
LABORATORY ID:	C02030206-016
SAMPLE DATE/TIME:	03/05/2002 13:35
RECEIVED DATE/TIME:	03/08/2002 10:00
REPORT DATE:	April 2, 2002
UNC SUBMITTAL #:	TE-4-3-2002

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	< 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 60
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 Alpha	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 18
Cation	meq		0 21
SM A/C Balance	%	-5 - +5	* 8 06
Calc TDS	mg/L		10 2
TDS A/C Balance	dec. %	0 80 - 1 20	* 0 98

* 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:	Field Blank
LABORATORY ID:	C02050336-016
SAMPLE DATE/TIME:	05/07/2002 13:50
RECEIVED DATE/TIME:	05/10/2002 10:00
REPORT DATE:	June 5, 2002
UNC SUBMITTAL #:	TE-8-5-2002

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 67
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	0.0004
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 Alpha	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	* 5.36
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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LABORATORY ANALYSIS REPORT
UNC MINING AND MILLING: CHURCHROCK OPERATIONS
GROUNDWATER MONITORING PROGRAM: SOUTHWEST ALLUVIUM MONITOR WELLS

WELL ID:	Field Blank
LABORATORY ID:	C02060276-016
SAMPLE DATE/TIME:	06/04/2002 13:50
RECEIVED DATE/TIME:	06/10/2002 10:00
REPORT DATE:	June 27, 2002
UNC SUBMITTAL #:	TE-9-6-2002

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	9 20
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 31
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 Alpha	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 10
Calc TDS	mg/L		11.1
TDS A/C Balance	dec %	0.80 - 1.20	* 0.90

* 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 Duplicate	624	624 Duplicate
LABORATORY ID:	C02020198-010	C02020198-011	C02030206-010	C02030206-011
SAMPLE DATE/TIME:	02/05/02 09:00	02/05/02 09:30	03/05/2002 08:40	03/05/2002 09.05
RECEIVED DATE/TIME:	02/08/02 10:00	02/08/02 10:00	03/08/202 10:00	03/08/2002 10:00
REPORT DATE:	March 13, 2002	March 13, 2002	April 2, 2002	April 2, 2002
UNC SUBMITTAL #:	TE-3-2-2002	TE-3-2-2002	TE-4-3-2002	TE-4-3-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	0 05	762	762	726	714
Magnesium	EPA 200 7	mg/L	0 01	461	460	463	456
Sodium	EPA 200.7	mg/L	0.05	193	214	228	223
Potassium	EPA 200.7	mg/L	0 10	7 8	6 8	6 8	6 6
Bicarbonate	SM 2320-B	mg/L	0 10	1470	1470	1530	1530
Sulfate	EPA 200 7	mg/L	1 0	2120	2140	2190	2170
Chloride	EPA 200.7	mg/L	1 0	219	205	207	193
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 06	0 06	0 06	0.06
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	90.5	88 3	95.1	97 2
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5190	5210	5170	5130
pH	SM 4500-H-B	std units	0 10	7.30	7 20	7.20	7.50
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 0212	0 0218	0 0351	0.0370
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	2 0	< 1.0	1.0	< 1 0
Radium Error Estimate ±				1.4	-	-	-
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		80 9	80 8	80.9	82 7
Cation	meq		85.1	85 9	85.1	83 6
A/C Balance	%	-5 - +5	2 54	3 09	2.54	0 54
Calc TDS	mg/L		4899	4914	4899	4958
TDS A/C Balance	dec %	0 80 - 1.20	1 06	1 06	1.06	1 03

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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:	C02030206-010	C02040226-010	C02050336-011	C02060276-010
SAMPLE DATE/TIME:	03/05/2002 08:40	04/02/2002 09:00	05/07/2002 08:45	06/04/2002 09:00
RECEIVED DATE/TIME:	03/08/202 10:00	04/08/2002 10:30	05/10/2002 10:00	06/10/2002 10:00
REPORT DATE:	April 2, 2002	April 27, 2002	June 5, 2002	June 27, 2002
UNC SUBMITTAL #:	TE-4-3-2002	TE-5-4-2002	TE-8-5-2002	TE-9-6-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	0 05	726	748	719	720
Magnesium	EPA 200 7	mg/L	0 01	463	464	448	450
Sodium	EPA 200.7	mg/L	0 05	228	225	226	201
Potassium	EPA 200.7	mg/L	0 10	6 8	8.3	7.4	6 4
Bicarbonate	SM 2320-B	mg/L	0 10	1530	1500	1480	1480
Sulfate	EPA 200 7	mg/L	1 0	2190	2180	2100	1830
Chloride	EPA 200 7	mg/L	1 0	207	203	186	181
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 06	0 06	0.13	< 0 05
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	95 1	95.5	104	96.3
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5170	5270	5220	5220
pH	SM 4500-H-B	std units	0 10	7.20	7 45	7.61	7.66
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 03	0 03
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 0351	0 0326	0 0355	0 0333
Radium 226	EPA 903.0	pCi/L	0.2	< 0 2	< 0 2	0.5	< 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	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		83 3	82 5	80 7	74 4
Cation	meq		85 0	86 1	83 3	82 4
A/C Balance	%	-5 - +5	0 98	2 09	1 60	5 13
Calc TDS	mg/L		5007	5001	4887	4555
TDS A/C Balance	dec. %	0 80 - 1.20	1.03	1.05	1 07	1 15

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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	624 Duplicate	624 Duplicate
LABORATORY ID:	C02030206-011	C02040226-010	C02040226-011	C02060276-011
SAMPLE DATE/TIME:	03/05/2002 09:05	04/02/2002 09:00	04/02/2002 09:25	06/04/2002 09:30
RECEIVED DATE/TIME:	03/08/2002 10.00	04/08/2002 10:30	04/08/2002 10:30	06/10/2002 10:00
REPORT DATE:	April 2, 2002	April 27, 2002	April 27, 2002	June 27, 2002
UNC SUBMITTAL #:	TE-4-3-2002	TE-5-4-2002	TE-5-4-2002	TE-9-6-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0 05	714	748	741	711
Magnesium	EPA 200 7	mg/L	0 01	456	464	459	444
Sodium	EPA 200 7	mg/L	0 05	223	225	220	208
Potassium	EPA 200 7	mg/L	0 10	6 6	8 3	8.0	6 0
Bicarbonate	SM 2320-B	mg/L	0 10	1530	1500	1500	1480
Sulfate	EPA 200 7	mg/L	1 0	2170	2180	2130	1850
Chloride	EPA 200 7	mg/L	1 0	193	203	206	174
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 06	0 06	0 05	0 08
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	97 2	95 5	95.7	92.1
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5130	5270	5210	5210
pH	SM 4500-H-B	std units	0 10	7.50	7 45	7 48	7.68
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	< 0.03	0.03
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 0370	0.0326	0.0338	0.0314
Radium 226	EPA 903 0	pCi/L	0 2	< 0 2	< 0 2	< 0 4	< 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	EPA 900.0	pCi/L	1.0	< 1.0	< 1 0	< 1.5	< 1.0
G Alpha Error Estimate ±				-	-	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		82 7	82 5	81.6	74 3
Cation	meq		83 6	86 1	85.1	81.8
M A/C Balance	%	-5 - +5	0 54	2.09	2.08	4 79
Calc TDS	mg/L		4958	5001	4938	4541
TDS A/C Balance	dec %	0 80 - 1.20	1 03	1 05	1 06	1.15

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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:	C02020198-009	C02030206-009	C02040226-007	C02050336-009
SAMPLE DATE/TIME:	02/04/02 04:35	03/04/2002 14:20	04/01/2002 13:45	05/06/2002 14:50
RECEIVED DATE/TIME:	02/08/02 10:00	03/08/2002 10:00	04/08/2002 10:30	05/10/2002 10:00
REPORT DATE:	March 13, 2002	April 2, 2002	April 27, 2002	June 4, 2002
UNC SUBMITTAL #:	TE-3-2-2002	TE-4-3-2002	TE-5-4-2002	TE-8-5-2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	0 05	808	764	791	763
Magnesium	EPA 200 7	mg/L	0 01	398	408	419	418
Sodium	EPA 200 7	mg/L	0 05	206	260	240	245
Potassium	EPA 200 7	mg/L	0 10	6 2	4 4	6 2	5 8
Bicarbonate	SM 2320-B	mg/L	0 10	1010	1080	1100	1110
Sulfate	EPA 200 7	mg/L	1.0	2530	2630	2620	2450
Chloride	EPA 200 7	mg/L	1.0	167	151	162	160
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 59	0.60	0 58	0.56
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	80 5	92 2	83 2	91 0
Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5360	5360	5470	5490
pH	SM 4500-H-B	std units	0 10	7 40	7 30	7 38	7.56
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	0.05	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 0926	0 108	0.102	0 114
Radium 226	EPA 903 0	pCi/L	0 2	< 0.2	< 0 2	< 0 2	< 0.2
Radium Error Estimate ±				-	-	-	-
Radium 228	EPA 904.0	pCi/L	1 0	1.8	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				1.4	-	-	-
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		79 7	83.3	83 1	80.2
Cation	meq		82 7	83 7	85.1	83.8
A/C Balance	%	-5 - +5	1.85	0 20	1.18	2.18
Calc TDS	mg/L		4978	5167	5158	5001
TDS A/C Balance	dec %	0 80 - 1 20	1 08	1 04	1.06	1 10

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

Major Ions	Method	Units	Reporting Limit	Results	Results	Results
Calcium	EPA 200.7	mg/L	0 05	716	844	770
Magnesium	EPA 200 7	mg/L	0 01	351	401	409
Sodium	EPA 200 7	mg/L	0 05	219	176	248
Potassium	EPA 200 7	mg/L	0.10	3.9	6 8	5 6
Bicarbonate	SM 2320-B	mg/L	0 10	946	978	1100
Sulfate	EPA 200 7	mg/L	1.0	2250	2660	2440
Chloride	EPA 200.7	mg/L	1 0	137	159	158
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0.46	0.51	0 46
Nitrate + Nitrite as N	EPA 353.2	mg/L	0 10	96 0	81 5	93.2
Non-Metals						
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5260	5260	5470
pH	SM 4500-H-B	std units	0.10	7.40	7.30	7.67
Trace Metals, dissolved						
Aluminum	EPA 200 8	mg/L	0 10	< 0.10	< 0.10	< 0.10
Arsenic III	SM 3114-B	mg/L	0 001	< 0.001	< 0 001	< 0.001
Beryllium	EPA 200.8	mg/L	0 01	< 0 01	< 0 01	< 0 01
Cadmium	EPA 200.8	mg/L	0.005	< 0 005	< 0 005	< 0 005
Cobalt	EPA 200 8	mg/L	0 01	< 0 01	< 0 01	< 0 01
Lead	EPA 200 8	mg/L	0.05	< 0 05	< 0 05	< 0 05
Manganese	EPA 200 8	mg/L	0 01	0 03	0.04	0 04
Molybdenum	EPA 200 8	mg/L	0 10	< 0.10	< 0.10	< 0.10
Nickel	EPA 200 8	mg/L	0 05	< 0 05	< 0 05	0.05
Selenium IV	SM 3114-B	mg/L	0 001	< 0 001	< 0 001	< 0 001
Vanadium	EPA 200 8	mg/L	0 10	< 0 10	< 0 10	< 0 10
Radiometrics						
Uranium, dissolved	EPA 200 8	mg/L	0 0003	0.0950	0.102	0.102
Radium 226	EPA 903 0	pCi/L	0 2	< 0 2	< 0 2	< 0.2
Radium Error Estimate ±				-	-	-
Radium 228	EPA 904 0	pCi/L	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
Thorium Error Estimate ±				-	-	-
Lead 210	NERHL-65-4	pCi/L	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
G Alpha Error Estimate ±				-	-	-
Trace Organics						
Chloroform	EPA 8260	µg/L	1.0	< 1 0	< 1.0	< 1.0

Quality Assurance Data		Target Range			
Anion	meq		73.1	81.7	80.0
Cation	meq		74.7	83.5	83 5
SM A/C Balance	%	-5 - +5	1 09	1.05	2.18
Calc TDS	mg/L		4576	5098	4994
TDS A/C Balance	dec %	0 80 - 1.20	1.15	1.03	1.10

msh r \reports\clients2001\unc_mining_&_milling\1_alluvium\monthly\gw-1_dups\c02010344-10 xls

TRACKING NO. PAGE NO.

50336R00010

APPENDIX B

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- 1-1-2002 (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)
TWQ-142	1-7-02	0905		JHBV	✓	✓	JHBV			As, Be, Ca, Cd, Cl, HCO_3,
NBL-1		0940								K, Mg, Mn, Na, NH_3, Ni,
504-B		1025								NO_3, Pb, Pb-210, pH, Se,
719		1110								SO_4, TDS, Th-230, U, V,
420		1140								Chloroform, Gross
509-D		1310								Alpha (-) U & Rn,
EPA-23		1340								Combined Ra-226 & Ra-228, Al,
803		1410								Co, Mo
808		1435						NA		
802		1505								
632	1-8-02	0830								
801		0905								
GW-2		0940								
GW-1		1015								
GW-1 DUPLICATE		1040								

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

Received by Mary Chischilly Jr.
1-9-02 Date
12:14PM. Time

1-7-02 @ 1200 & 1530
1-8-02 @ 1200
Date Time
[signature]
Lab Receipt Signature
1/11/02 Date
1000 Time
C02010346

The above analysis to be performed is authorized by:
[signature]
Signature
Jan. 9, 2002
Date

TRACKING NO. PAGE NO.
10346R000006

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- 1-1-2002 (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)
624	1-8-02	1105		✓ SHB	✓ MC	✓ MC	✓ SHB			As, Be, Ca, Cd, Cl, HCO_3,
EPA-28	↓	1135		↓	↓	↓	↓			K, Mg, Mn, Na, NH_3, Ni,
GW-3		1315								NO_3, Pb, Pb-210, pH, Se,
EPA-25		1400								SO_4, TDS, Th-230, U, V,
627		1500								Chloroform, Gross
FIELD BLANK		1520								Alpha (-) U & Rn,
717	1-9-02	0845								Combined Ra-226 & Ra-228, Al,
EPA-14		0915								Co, Mo
517		0940						NA		

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

Received by: May Chadley Jr.
1-9-02 Date
12:11 P.M. Time

1-8-02 @ 1200 & 1530
1-9-02 @ 1000
Date Time
Lab Receipt Signature
1/11/02 1000
Date Time

The above analysis to be performed is authorized by:
Signature
Jan. 9, 2002
Date

TRACKING NO. PAGE NO.
1036R00005

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-2-1-2002

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	1-14-02	0835		✓	✓	✓	✓			As*, Be*, Ca*, Cd*, Cl*, HCO_3*,
614		0915								K*, Mg*, Mn*, Na*, NH_3*, Ni*,
515-A		0950								NO_3*, Pb*, Pb-210*, pH*, Se*,
604		1020								SO_4*, TDS*, Th-230*, U*, V*,
EPA-7		1055								Chloroform*, Gross
EPA-5		1130								Alpha (-)*U & Rn,
EPA-4		1210								Combined Ra-226* & Ra-228*, Al*,
EPA-2		1350								Co*, Mo*
EPA-2 DUPLICATE		1420						N/A		
708		1450								
711	1-15-02	0840								
711 DUPLICATE		0945								
EPA-13		0905								
FIELD BLANK		1020								

Sampled by: Leslie H. Bogart
Dispatched by: Warren Brown
Carrier: UPS
3 ICED COOLERS
Method of Shipment

Received by Max Chischilly Jr.
01-16-02 Date
11:07 AM Time

1-14-02 @ 1200 & 1530
1-15-02 @ 1100
Date Time

Lab Receipt Signature
1/18/02 Date
1000 Time

C02010514

The above analysis to be performed is authorized by:
Signature
1-16-2002
Date

TRACKING NO. PAGE NO.
10514R00012

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 1/11/2002 10 00.00

Work Order Number C02010344

Received by: sh

Checklist completed by Labitha Edwards 1/14/02 (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 ☐	1 °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.

10344R00020

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 1/11/2002 10 00.00

Work Order Number C02010346

Received by sh

Checklist completed by Kevin Schroeder (Signature) 1/14/02 (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 ☐	1 °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: We only received 2 of 4 coolers on Fri. 1/11/02 and received the other 2 coolers on Mon. 1/14/02. SFH

Corrective Action _____

TRACKING NO. PAGE NO.

10346R00007

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 1/11/2002 10.00.00

Work Order Number C02010348

Received by sh

Checklist completed by Kerri Schroeder 1/14/02
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 ☐	1 °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: We received 2 of 4 coolers on Fri. 1/11/02 and received other 2 coolers on Mon. 1/14/02.

Corrective Action _____

TRACKING NO. PAGE NO.

10348R00033

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 1/18/2002 10.00:00

Work Order Number C02010513

Received by sh

Checklist completed by Kerri Schroeder 1/21/02
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 ☐	2 °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.

10513R00009

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 1/18/2002 10:00:00

Work Order Number C02010514

Received by sh

Checklist completed by Kent Schroeder 1/21/02 (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 ☐	2 °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.

10514R00013

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE- 5-4-2002. (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	4-1-02	0910		✓ SAB	✓	✓	✓ CAB			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0950								K, Mg, Mn, Na, NH_3, Ni,
803		1025								NO_3, Pb, Pb-210, pH, Se,
808		1100								SO_4, TDS, Th-230, U, V,
802		1135								Chloroform, Gross
GW-2		1320								Alpha (-) U & Rn,
GW-1		1345								Combined Ra-226 & Ra-228, Al,
801	↓	1425								Co, Mo
632	4-2-02	0820						NA		
624		0900								
624 DUPLICATE		0925								
EPA-28		0955								
GW-3		1045								
EPA-25		1150								
⊕ 613	↓	1335		↓	↓	↓	↓			

Sampled by: [signature]

Dispatched by: [signature]

Carrier: UPS

4 ICED COOLER
Method of Shipment

Received by Mac Chischilly Jr.
4-3-02 Date
12:05 PM. Time

4-1-02 @1200 & 1530
4-2-02 @1200 & 1530
Date Time

[signature]
Lab Receipt Signature

4/8/02 Date
1030 Time

The above analysis to be performed is authorized by:

[signature]
Signature

4-3-2002
Date

PACKING NO. PAGE NO.

40225R00025

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper WY 82601
City State Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE-5-4-2002 (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)
614	4-2-02	1415		✓ JAB	✓ RC	✓ RC	✓ JAB			As, Be, Ca, Cd, Cl, HCO_3,
515-A	4-2-02	1445								K, Mg, Mn, Na, NH_3, Ni,
517	4-3-02	0845								NO_3, Pb, Pb-210, pH, Se,
EPA-14	4-3-02	0935								SO_4, TDS, Th-230, U, V,
FIELD BLANK	4-3-02	1030								Chloroform, Gross
										Alpha (-) U & Rn,
										Combined Ra-226 & Ra-228, Al,
										Co, Mo
								NA		

Sampled by: Luke H Bogart

Received by: Max Chischilly Jr.

4-2-02 @ 1530
4-3-02 @ 1030
Date Time

The above analysis to be performed is authorized by:

Dispatched by: [illegible]

4-3-02 12:05 P.M.
Date Time

Lab Receipt Signature

Signature

Carrier: UPS

ICED COOLER
Method of Shipment

4/8/02 1030
Date Time

4-3-2002
Date

TRACKING NO. PAGE NO.
40226R00026

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

CHAIN OF CUSTODY

Energy Laboratories, Inc.
Laboratory

2393 N. Salt Creek Highway
Address

Casper — WY — 82601
City — State — Zip

307-235-0515
Phone No.

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

UNC Submittal No. TE- 6-4-2002 (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)
708	4-8-02	0900		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
711		0950								K, Mg, Mn, Na, NH_3, Ni,
711 DUPLICATE		1020								NO_3, Pb, Pb-210, pH, Se,
EPA-13		1040								SO_4, TDS, Th-230, U, V,
504-B		1120								Chloroform, Gross
719		1320								Alpha (-) U & Rn,
420		1350								Combined Ra-226 & Ra-228, Al,
TWQ-142		1400								Co, Mo
627	4-9-02	0845						NA		
717		0940								
EPA-2		1020								
EPA-2 DUPLICATE		1050								
604		1230								
EPA-7		1300								
EPA-5		1335								

4/8/02 & 4/9/02 @ 1530

Sampled by: [signature]

Dispatched by: [signature]

Carrier: UPS

ICED COOLER
Method of Shipment

Received by Mary Churchilly Jr.
April 10-2002 — Date
11:40 AM — Time

Date — Time
[signature]
Lab Receipt Signature
4/15/02 — Date
1000 — Time

The above analysis to be performed is authorized by:
[signature]
Signature
4-10-2002
Date

TRACKING NO. 40490R00002 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- 6-4-2002 (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)
EPA-4	4-9-02	1415		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
FIELD BLANK	4-9-02	1530		✓	✓	✓	✓			K, Mg, Mn, Na, NH_3, Ni,
										NO_3, Pb, Pb-210, pH, Se,
										SO_4, TDS, Th-230, U, V,
										Chloroform, Gross
										Alpha (-) U & Rn,
										Combined Ra-226 & Ra-228, Al,
										Co, Mo
								N A		

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

Received by [signature]
April 10-2002 11:40 AM
Date Time

4-9-02 @ 1530
Date Time
Lab Receipt Signature
4/15/02 1000
Date Time

The above analysis to be performed is authorized by: [signature]
Signature
4-10-2002
Date

TRACKING NO. 40490R00003 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- 7-4-2002

Sample Description	Date	Time	Filter 0.45u	PRESERVATION plain	HNO_3	H_2SO_4	$Na_2S_2O_3$	NaOH	Preserved By	Analysis Required (For all samples listed)
NBL-1	4-17-02	0930		✓ JHB	✓	✓	✓ JHB			As, Be, Ca, Cd, Cl, HCO_3, K, Mg, Mn, Na, NH_3, Ni, NO_3, Pb, Pb-210, pH, Se, SO_4, TDS, Th-230, U, V, Chloroform, Gross Alpha (-) U & Rn, Combined Ra-226 & Ra-228, Al, Co, Mo
								N/A		

Sampled by: Lance H Bogart
Dispatched by: Loren Brown
Carrier: UPS
Method of Shipment: iced cooler

Received by: Max Chavelly Jr.
Date: April 17, 2002 Time: 11:42 Am.

Date: 4-17-02 Time: 0950
Lab Receipt Signature: Sue J Hooper
Date: 4/22/02 Time: 1000

The above analysis to be performed is authorized by:
Signature:
Date: 4-17-2002

TRACKING NO. PAGE NO.
406788R00002

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 4/8/2002 10.30.00

Work Order Number C02040225

Received by sh

Checklist completed by Kerri Schroeder 4/8/02
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 ☐	5 °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.
40225R00019

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 04/08/2002 10.30:00

Work Order Number C02040226

Received by: sh

Checklist completed by Sara Hansen 4/8/02 (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 ☐	5°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.

40226R00027

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Receive 4/8/2002 10:30:00

Work Order Number C02040227

Received by sh

Checklist completed by Kevin Schroeder 4/8/02 (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 ☐	5 °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.

40227R00017

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 04/15/2002 10.00.00

Work Order Number C02040485

Received by: sh

Checklist completed by Sara Hansen 4/15/02 (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:

Corrective Action

TRACKING NO. PAGE NO.

40485R00011

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 04/15/2002 10 00.00

Work Order Number C02040488

Received by: sh

Checklist completed by Sara Hagman 4/15/02 (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:

Corrective Action _____

TRACKING NO. PAGE NO.

40488R00011

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 04/15/2002 10:00:00

Work Order Number C02040490

Received by: sh

Checklist completed by Sara Hansen 4/15/02 (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:

Corrective Action _____

TRACKING NO. PAGE NO.

40490R00004

FOR 627 Revised R.

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received. 04/15/2002 10.00:00

Work Order Number. C02040490

Received by: sh

Checklist completed by: [signature] 6/7/02 (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:
Added recheck for all ICPMS metals per RAG 6-7-02.

Corrective Action: _____

TRACKING NO. PAGE NO.

40490R10003

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 04/22/2002 10:00 00

Work Order Number C02040678

Received by: sh

Checklist completed by Susan J Hansen 4/22/02 (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 ☐	-1 °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.

40678R00003

APPENDIX B

MONTHLY

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-3-2-2002

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	2-4-02	0830		✓ RS	✓ RS	✓ RS	✓ RS			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		0905								K, Mg, Mn, Na, NH_3, Ni,
803		0935								NO_3, Pb, Pb-210, pH, Se,
808		1005								SO_4, TDS, Th-230, U, V,
802		1040								Chloroform, Gross
632		1110								Alpha (-) U & Rn,
801		1330								Combined Ra-226 & Ra-228, Al,
GW-2		1400								Co, Mo
GW-1		1435								
624	2-5-02	0900								
624 DUPLICATE		0930								
EPA-28		1000								
GW-3		1040								
EPA-25		1120								
627		1310								
FIELD BLANK		1350								

Sampled by: Ronald Sun
Dispatched by: Doreen Bacon
Carrier: UPS
3 ICED COOLER
Method of Shipment

Received by Mark Chinkelly Jr.
2-6-02 Date
10:34 AM Time

2-4-02 @1200 E1530 2-5-02 @1200 E1400
Date Time
Lab Receipt Signature
2/8/02 Date
1000 Time

The above analysis to be performed is authorized by:
Signature
2-6-2002
Date

2019 8R00065
PAGE NO.

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name. UNTD-NCLR-CRP

Date and Time Received 02/08/2002 10 00 00

Work Order Number C02020198

Received by: sh

Checklist completed by Sara Hansen 2/8/02
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 ☐	-2 °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.

20198R00066

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- 4-3-2002

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	3-4-02	0910		✓ JHB	✓ mc	✓ mc	✓ JHB			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23	↓	0940		↓	↓	↓	↓			K, Mg, Mn, Na, NH_3, Ni,
803	↓	1005		↓	↓	↓	↓			NO_3, Pb, Pb-210, pH, Se,
808	↓	1030		↓	↓	↓	↓			SO_4, TDS, Th-230, U, V,
802	↓	1055		↓	↓	↓	↓			Chloroform, Gross
632	↓	1125		↓	↓	↓	↓			Alpha (-) U & Rn,
801	↓	1320		↓	↓	↓	↓			Combined Ra-226 & Ra-228, Al,
GW-2	↓	1350		↓	↓	↓	↓	N A		Co, Mo
GW-1	↓	1420		↓	↓	↓	↓			
624	3-5-02	0840		↓	↓	↓	↓			
624 DUPLICATE	↓	0905		↓	↓	↓	↓			
EPA-28	↓	0935		↓	↓	↓	↓			
GW-3	↓	1020		↓	↓	↓	↓			
EPA-25	↓	1105		↓	↓	↓	↓			
627	↓	1255		↓	↓	↓	↓			
FIELD BLANK	↓	1335		↓	↓	↓	↓			

Sampled by: [signature]

Dispatched by: [signature]

Carrier: UPS

ICED COOLER
Method of Shipment

Received by Mary Chischilly Jr.
3-6-02. Date
11:28 AM Time

3-4-02 @1200 21530 3-5-02 @1200 21400
Date Time

[signature]
Lab Receipt Signature

3/8/02 Date
1000 Time

The above analysis to be performed is authorized by:

[signature]
Signature

3-6-2002
Date

PAGE NO.

61000R00019

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received 03/08/2002 10 00 00

Work Order Number C02030206

Received by: sh

Checklist completed by Sara Hawken 3/8/02
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

TRACKING NO. PAGE NO.

30206R00020

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- 8-5-2002

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	5-6-02	0900		✓ LHB	✓ ↓	✓ ↓	✓ LHB			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23	↓	0940		↓	↓	↓	↓			K, Mg, Mn, Na, NH_3, Ni,
803		1010								NO_3, Pb, Pb-210, pH, Se,
808		1045								SO_4, TDS, Th-230, U, V,
802		1110								Chloroform, Gross
632		1140								Alpha (-) U & Rn,
801		1340								Combined Ra-226 & Ra-228, Al,
GW-2		1415						N A		Co, Mo
GW-1		1450								
GW-1 DUPLICATE	↓	1510								
624	5-7-02	0845								
EPA-28	↓	0950								
GW-3		1040								
EPA-25		1130								
627		1300								
FIELD BLANK	↓	1350		↓	↓	↓	↓			

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

Received by: Max Chischilly Jr.
Date: 5-8-02 Time: 11:20AM

5-6-02 @ 1530 & 5-7-02 @ 1400
Date Time
Lab Receipt Signature: [signature]
Date: 5-10-02 Time: 10:00

The above analysis to be performed is authorized by:
Signature: Max Chischilly Jr.
Date: 5-8-02

PAGE NO.

R3356R00021

00050226

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name UNTD-NCLR-CRP

Date and Time Received. 5/10/2002 10:00:00 AM

Work Order Number C02050336

Received by cjs

Checklist completed by Cathy Scott 5-10-02
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 ☑	7 °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.

50336R00025

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- 9-6-2002

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	6-3-02	0915		✓	✓	✓	✓			As, Be, Ca, Cd, Cl, HCO_3,
EPA-23		1000								K, Mg, Mn, Na, NH_3, Ni,
803		1035								NO_3, Pb, Pb-210, pH, Se,
808		1105								SO_4, TDS, Th-230, U, V,
802		1135								Chloroform, Gross
801		1310								Alpha (-) U & Rn,
GW-2		1345								Combined Ra-226 & Ra-228, Al,
GW-1		1415						N A		Co, Mo
632		1450								
624	6-4-02	0900								
624 DUPLICATE		0930								
EPA-28		0955								
GW-3		1045								
EPA-25		1130								
627		1310								
FIELD BLANK		1350								

Sampled by: [signature]
Dispatched by: [signature]
Carrier: UPS
Method of Shipment: PACKING #3 ICED COOLER

Received by Mac Chadlly Jr.
Date 6-5-02 Time 11:20 A.M.

6-3-02 @1520 & 6-4-02 @1400
Date Time
Lab Receipt Signature [signature]
Date 6/10/02 Time 10:00

The above analysis to be performed is authorized by:
Signature Mac Chadlly Jr.
Date 6-5-02

PAGE NO.

00276R00017

Energy Laboratories Inc.

Sample Receipt Checklist

Client Name: UNTD-NCLR-CRP

Date and Time Received: 6/10/2002 10.00:00

Work Order Number: C02060276

Received by: cjs

Checklist completed by: Cathy Scott 6/10/02
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 ☐	19 °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.

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