

UNITED NUCLEAR CORPORATION



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

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CERTIFIED - RETURN RECEIPT REQUESTED

August 26, 2002

Melvyn N. Leach, Chief
Fuel Cycle Licensing Branch, FCSS
Division of Fuel Safety and Safeguards
Office of Nuclear Material Safety & Safeguards
Mail Stop T-8A33
US Nuclear Regulatory Commission
Washington, DC 20555-0001

Re: Semi-Annual Effluent and Environmental Monitoring Report from January to June, 2002

Dear Mr. Leach:

In compliance with our Nuclear Regulatory Materials License No. SUA-1475, Amendment No. 34, conditions No. 12 and 30; the attached Effluent and Environmental Monitoring Report are described and presented as listed below. This applicable and available data will specify the concentration of each principal radionuclide released to unrestricted areas in water effluent during the period of January 01, 2002 through June 30, 2002. The data is also reported on the format required in Regulatory Guide 4.14.

Available monitoring data in this report are in order listed below:

- Environmental Inspection Report (continued this procedure to show and maintain the integrity of the restricted tailings area).
- Ground Water Results (available data on GW-3 well).
- Samples Location Maps



Presently our environmental monitoring program is at a greatly reduced level and the above reported items are solely based on available data only. The required radiation monitoring program will be under an RWP (Radiation Work Permit) and no RWP was issued during this semi-annual period.

Additionally, our active radiation monitoring instruments are routinely calibrated and the radiation monitoring program is still in effect, but is in standby status awaiting the final pond closure reclamation activity.

Sincerely,

A handwritten signature in cursive script that reads "Max Chischilly, Jr." is positioned above the typed name.

Max Chischilly, Jr.
Radiation Safety Officer

Cc: Dwight Chamberlain, NRC
Ken Hooks, NRC
Steve Cline, GE
Roy Blickwedel, GE

ENVIRONMENTAL INSPECTION REPORTS

ENVIRONMENTAL INSPECTION

DATE: 2-25-02

TIME START: 1030

INSPECTOR: Mr. Chischilly Jr.

TIME END: 1155

TAILINGS AREA:

	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>-</u>	<u>NA</u>	<u>ONLY UNDER AN RWP IF NECESSARY</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 3-18-02

TIME START: 0950

INSPECTOR: Max Chaschly Jr.

TIME END: 1120

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>-</u>	<u>NA</u>	<u>ONLY UNDER AN RWP</u> <u>IF NECESSARY.</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 4-23-02

TIME START: 1106

INSPECTOR: Max Chiscolly Jr.

TIME END: 1208

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>-</u>	<u>NA</u>	<u>UNDER AN RWP</u> <u>IF NECESSARY</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

ENVIRONMENTAL INSPECTION

DATE: 6-17-02

TIME START: 0910

INSPECTOR: Max Chisilly Jr.

TIME END: 1015

TAILINGS AREA:

<u>TAILINGS AREA:</u>	<u>OKAY</u>	<u>PROBLEM</u>	<u>COMMENTS</u>
1. Fences	<u>✓</u>	<u> </u>	<u> </u>
2. Air Monitors	<u>-</u>	<u>NA</u>	<u>ONLY UNDER AN RWP IF NEEDED.</u>
3. Radiation Warning Signs	<u>✓</u>	<u> </u>	<u> </u>
4. Locked Gates	<u>✓</u>	<u> </u>	<u> </u>

ACTION TAKEN: _____

GROUNDWATER RESULTS

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>µci/ml</u>	<u>µci/ml</u>	<u>µci/ml</u>
<u>01/08/02</u>	<u>GW-3</u>	<u>Ground</u>	<u>U-Nat (dissolved)</u> <u>or total</u>		<u>4.30E-08</u>		<u>2.00E-10</u>
<u>1st.-Qr.</u>		<u>Water Well</u>					
<u>(Quar. Sample)</u>			<u>Th-230 (dissolved)</u> <u>or total</u>		<u>< 2.00E-10</u>		<u>2.00E-10</u>
			<u>Ra-266 (dissolved)</u> <u>or total</u>		<u>3.00E-10</u>	<u>2.00E-10</u>	<u>2.00E-10</u>
UNC Field Data:	PH (STD. Units) =	6.90					
	Cond. (µ MHOS) =	4,960					
	Water Depth (Ft.) =	50.2	<u>Pb-210 (dissolved)</u> <u>or total</u>		<u><1.00E-09</u>		<u>1.00E-09</u>
	Temp. (°C) =	13.1					
			<u>Po-210 (dissolved)</u> <u>or total</u>				<u>1.00E-09</u>

COMMENTS:

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QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u> <u>μci/ml</u>	<u>LLD</u> <u>μci/ml</u>
				<u>Mg/l</u>	<u>μci/ml</u>		
<u>02/05/02</u>	<u>GW-3</u>	<u>Ground</u>	U-Nat (dissolved) or total		<u>3.97E-08</u>		<u>2.00E-10</u>
<u>1st.-Qr.</u>		<u>Water Well</u>					
<u>(Monthly Sample)</u>			Th-230 (dissolved) or total		<u><2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u><2.00E-10</u>		<u>2.00E-10</u>
UNC Field Data:	PH (STD. Units) =	6.91					
	Cond. (μ MHOS) =	5,030					
	Water Depth (Ft) =	50.20	Pb-210 (dissolved) or total		<u><1.00E-09</u>		<u>1.00E-09</u>
	Temp. (°C) =	10.2					
			Po-210 (dissolved) or total				<u>1.00E-09</u>

COMMENTS:

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>µci/ml</u>	<u>µci/ml</u>	<u>µci/ml</u>
<u>03/05/02</u>	<u>GW-3</u>	<u>Ground</u>	<u>U-Nat (dissolved)</u> <u>or total</u>		<u>5.45E-08</u>		<u>2.00E-10</u>
<u>1st.-Qr.</u>		<u>Water Well</u>					
<u>(Monthly Sample)</u>			<u>Th-230 (dissolved)</u> <u>or total</u>		<u><2.00E-10</u>		<u>2.00E-10</u>
			<u>Ra-266 (dissolved)</u> <u>or total</u>		<u>5.00E-10</u>	<u>2.00E-10</u>	<u>2.00E-10</u>
UNC Field Data:	PH (STD. Units) = 6.77						
	Cond. (µ MHOS) = 5,180						
	Water Depth (Ft.) = 50.15		<u>Pb-210 (dissolved)</u> <u>or total</u>		<u><1.00E-09</u>		<u>1.00E-09</u>
	Temp. (°C) = 13.1						
			<u>Po-210 (dissolved)</u> <u>or total</u>				<u>1.00E-09</u>

COMMENTS.

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>µci/ml</u>	<u>µci/ml</u>	<u>µci/ml</u>
<u>04/02/02</u>	<u>GW-3</u>	<u>Ground</u>	U-Nat (dissolved) or total		<u>4.77E-08</u>		<u>2.00E-10</u>
<u>2nd.-Qr.</u>		<u>Water Well</u>					
<u>(QUAR. Sample)</u>			Th-230 (dissolved) or total		<u><2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u><2.00E-10</u>		<u>2.00E-10</u>
UNC Field Data:	PH (STD. Units) =	6.76					
	Cond. (µ MHOS) =	5,120					
	Water Depth (Ft.) =	50.10	Pb-210 (dissolved) or total		<u><1.00E-09</u>		<u>1.00E-09</u>
	Temp. (°C) =	16.9					
			Po-210 (dissolved) or total				<u>1.00E-09</u>

COMMENTS:

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QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>µci/ml</u>		
<u>05/07/02</u>	<u>GW-3</u>	<u>Ground</u>	U-Nat (dissolved) or total		<u>5.42E-08</u>		<u>2.00E-10</u>
<u>Monthly Sample</u>		<u>Water Well</u>	Th-230 (dissolved) or total		<u>< 2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u>< 2.00E-10</u>		<u>2.00E-10</u>
UNC Field Data:	PH (STD. Units) = 6.51		Pb-210 (dissolved) or total		<u>< 1.00E-09</u>		<u>1.00E-09</u>
	Cond. (µ MHOS) = 4,330		Po-210 (dissolved) or total				<u>1.00E-09</u>
	Water Depth (Ft.) = 50.08						
	Temp. (°C) = 15.7						

COMMENTS:

QUARTERLY LIQUID SAMPLES

<u>Date/Qr.</u>	<u>Location</u>	<u>Type</u>	<u>Radionuclide</u>	<u>Concentration</u>		<u>Error Est.</u>	<u>LLD</u>
				<u>Mg/l</u>	<u>uci/ml</u>	<u>uci/ml</u>	<u>uci/ml</u>
<u>06/04/02</u>	<u>GW-3</u>	<u>Ground</u>	U-Nat (dissolved) or total		<u>5.34E-08</u>		<u>2.00E-10</u>
<u>Monthly Sample</u>		<u>Water Well</u>	Th-230 (dissolved) or total		<u><2.00E-10</u>		<u>2.00E-10</u>
			Ra-266 (dissolved) or total		<u>4.00E-10</u>	<u>2.00E-10</u>	<u>2.00E-10</u>
			Pb-210 (dissolved) or total		<u><1.00E-09</u>		<u>1.00E-09</u>
			Po-210 (dissolved) or total				<u>1.00E-09</u>

. UNC Field Data: PH (STD. Units) = 6.68
 Cond. (μ MHOS) = 4,510
 Water Depth (Ft.) = 50.05
 Temp. (°C) = 18.0

COMMENTS: _____

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

WELL ID:
 LABORATORY ID:
 SAMPLE DATE/TIME:
 RECEIVED DATE/TIME:
 REPORT DATE:
 UNC SUBMITTAL #:
 REVISED REPORT DATE:

GW-3	GW-3	GW-3	GW-3
C02010344-013	C02020198-013	C02030206-013	C02040226-013
01/08/2002 13:15	02/05/02 10:40	03/05/2002 10:20	04/02/2002 10:45
01/11/2002 10:00	02/08/02 10:00	03/08/2002 10:00	04/08/2002 10:30
February 4, 2002	March 13, 2002	April 2, 2002	April 27, 2002
TE-1-1-2002	TE-3-2-2002	TE-4-3-2002	TE-5-4-2002
			July 22, 2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200 7	mg/L	0 05	983	960	914	968
Magnesium	EPA 200.7	mg/L	0 01	293	281	283	291
Sodium	EPA 200 7	mg/L	0 05	192	219	246	236
Potassium	EPA 200 7	mg/L	0 10	10 2	9 5	8 9	10 5
Bicarbonate	SM 2320-B	mg/L	0 10	1440	1440	1490	1480
Sulfate	EPA 200 7	mg/L	1 0	2200	2080	2160	2110
Chloride	EPA 200 7	mg/L	1 0	171	165	160	168
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 09	0 11	0 09	0 10
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	86 5	82 3	84 3	83 6

Non-Metals	Method	Units	Reporting Limit	Results	Results	Results	Results
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5050	5110	5090	5240
pH	SM 4500-H-B	std. units	0 10	7 20	7.20	7 40	7 59

Trace Metals, dissolved	Method	Units	Reporting Limit	Results	Results	Results	Results
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	1 79	1.89	2.34	2 08
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	Method	Units	Reporting Limit	Results	Results	Results	Results
Uranium, dissolved	EPA 200 8	mg/L	0 0003	0 0635	0 0586	0 0805	0 0704
Radium 226	EPA 903 0	pCi/L	0 2	0 3	< 0 2	0 5	< 0 2
Radium Error Estimate ±				0 2	-	0 2	-
Radium 228	EPA 904 0	pCi/L	1 0	1.5	< 1 0	< 1 0	< 1 0
Radium Error Estimate ±				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 0	< 1 0	< 1 0	< 1 0
G Alpha Error Estimate ±				-	-	-	-

Trace Organics	Method	Units	Reporting Limit	Results	Results	Results	Results
Chloroform	EPA 8260	µg/L	1 0	< 1 0	< 1 0	< 1 0	< 1 0

Quality Assurance Data	Method	Units	Target Range	Results	Results	Results	Results
Anion		meq		80 4	77 5	80 0	78 9
Cation		meq		82 3	81 3	80 3	83 3
SM A/C Balance		%	-5 - +5	1 13	2 41	0 24	2 70
Calc TDS		mg/L		4954	4801	4893	4896
TDS A/C Balance		dec %	0 80 - 1 20	1 02	1 06	1 04	1 07



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

WELL ID:
 LABORATORY ID:
 SAMPLE DATE/TIME:
 RECEIVED DATE/TIME:
 REPORT DATE:
 UNC SUBMITTAL #:
 REVISED REPORT DATE:

GW-3	GW-3	GW-3	GW-3
C02020198-013	C02030206-013	C02040226-013	C02050336-013
02/05/02 10:40	03/05/2002 10:20	04/02/2002 10:45	05/07/2002 10:40
02/08/02 10 00	03/08/2002 10:00	04/08/2002 10:30	05/10/2002 10:00
March 13, 2002	April 2, 2002	April 27, 2002	June 5, 2002
TE-3-2-2002	TE-4-3-2002	TE-5-4-2002	TE-8-5-2002
-	-	-	July 22, 2002

Major Ions	Method	Units	Reporting Limit	Results	Results	Results	Results
Calcium	EPA 200.7	mg/L	0.05	960	914	968	953
Magnesium	EPA 200.7	mg/L	0.01	281	283	291	288
Sodium	EPA 200.7	mg/L	0.05	219	246	236	250
Potassium	EPA 200.7	mg/L	0.10	9.5	8.9	10.5	10.2
Bicarbonate	SM 2320-B	mg/L	0.10	1440	1490	1480	1510
Sulfate	EPA 200.7	mg/L	1.0	2080	2160	2110	2120
Chloride	EPA 200.7	mg/L	1.0	165	160	168	159
Ammonia as N	SM 4500-NH3-G	mg/L	0.05	0.11	0.09	0.10	0.08
Nitrate + Nitrite as N	EPA 353.2	mg/L	0.10	82.3	84.3	83.6	82.4

Non-Metals							
Total Dissolved Solids	SM 2540-C	mg/L	1.0	5110	5090	5240	5320
pH	SM 4500-H-B	std units	0.10	7.20	7.40	7.59	7.44

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	1.89	2.34	2.08	2.18
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	0.0586	0.0805	0.0704	0.0800
Radium 226	EPA 903.0	pCi/L	0.2	< 0.2	0.5	< 0.2	< 0.2
Radium Error Estimate ±				-	0.2	-	-
Radium 228	EPA 904.0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Radium Error Estimate ±				-	-	-	-
Thorium 230	EPA 907.0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2
Thorium Error Estimate ±				-	-	-	-
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0
Lead Error Estimate ±				-	-	-	-
Gross Alpha	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		77.5	80.0	78.9	79.3
Cation	meq		81.3	80.3	83.3	82.9
SM A/C Balance	%	-5 - +5	2.41	0.24	2.70	2.23
Calc TDS	mg/L		4801	4893	4896	4903
TDS A/C Balance	dec. %	0.80 - 1.20	1.06	1.04	1.07	1.09



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

WELL ID:
 LABORATORY ID:
 SAMPLE DATE/TIME:
 RECEIVED DATE/TIME:
 REPORT DATE:
 UNC SUBMITTAL #:

GW-3	GW-3	GW-3	GW-3
C02030206-013	C02040226-013	C02050336-013	C02060276-013
03/05/2002 10:20	04/02/2002 10:45	05/07/2002 10:40	06/03/2002 10:35
03/08/2002 10:00	04/08/2002 10:30	05/10/2002 10:00	06/10/2002 10:00
April 2, 2002	April 27, 2002	June 5, 2002	June 27, 2002
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	914	968	953	958
Magnesium	EPA 200 7	mg/L	0 01	283	291	288	293
Sodium	EPA 200 7	mg/L	0.05	246	236	250	236
Potassium	EPA 200 7	mg/L	0 10	8 9	10 5	10 2	8 0
Bicarbonate	SM 2320-B	mg/L	0 10	1490	1480	1510	1520
Sulfate	EPA 200 7	mg/L	1 0	2160	2110	2120	2110
Chloride	EPA 200 7	mg/L	1 0	160	168	159	148
Ammonia as N	SM 4500-NH3-G	mg/L	0 05	0 09	0 10	0 08	0 10
Nitrate + Nitrite as N	EPA 353 2	mg/L	0 10	84 3	83 6	82.4	83 4

Non-Metals		Method	Units	Reporting Limit	Results	Results	Results	Results
Total Dissolved Solids	SM 2540-C	mg/L	1 0	5090	5240	5320	5330	
pH	SM 4500-H-B	std units	0.10	7.40	7.59	7.44	7.67	

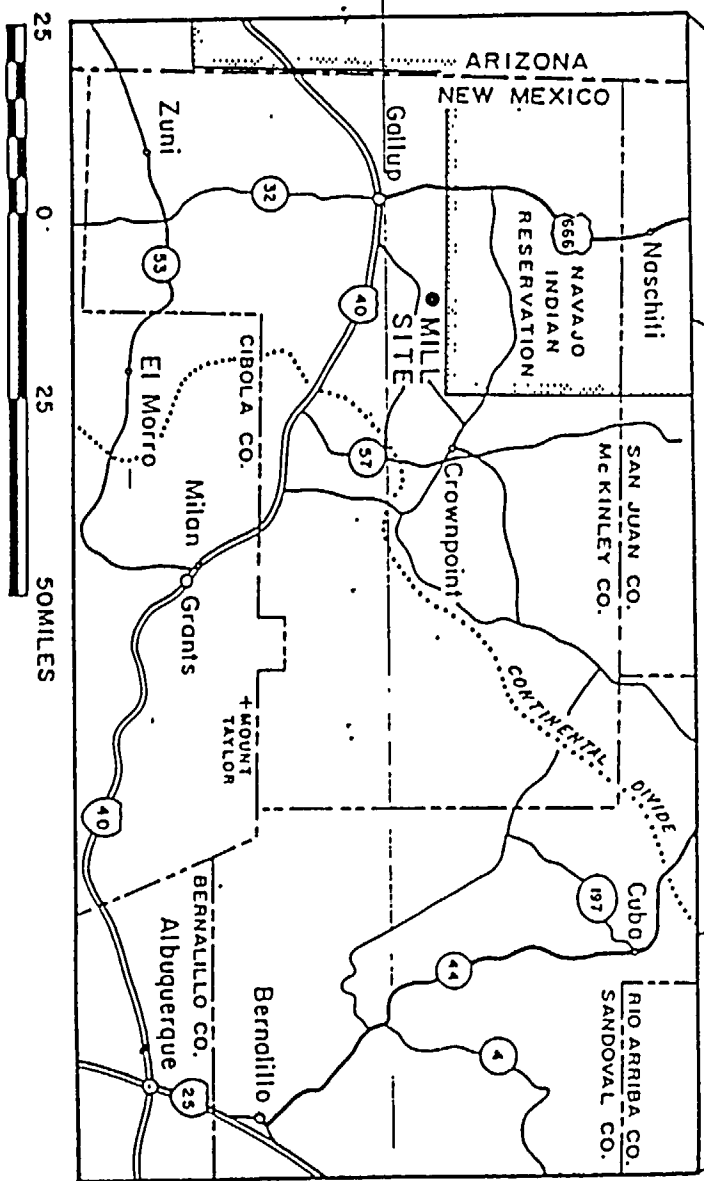
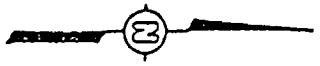
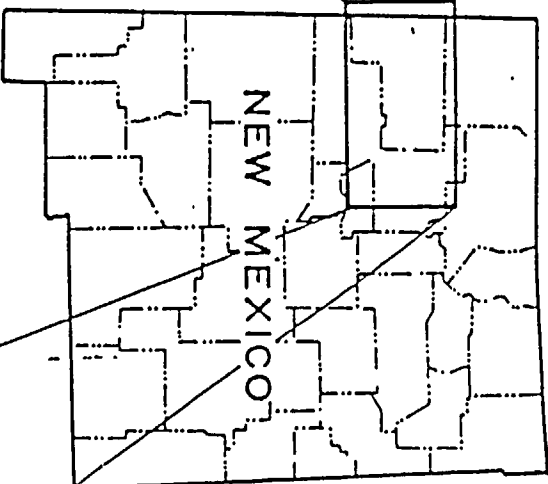
Trace Metals, dissolved		Method	Units	Reporting Limit	Results	Results	Results	Results
Aluminum	EPA 200 8	mg/L	0.10	< 0.10	< 0.10	< 0.10	< 0.10	
Arsenic III	SM 3114-B	mg/L	0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Beryllium	EPA 200 8	mg/L	0.01	< 0.01	< 0.01	< 0.01	< 0.01	
Cadmium	EPA 200.8	mg/L	0.005	< 0.005	< 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	2.34	2.08	2.18	1.97	
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	0.06	0.08	< 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		Method	Units	Reporting Limit	Results	Results	Results	Results
Uranium, dissolved	EPA 200 8	mg/L	0.0003	0.0805	0.0704	0.0800	0.0789	
Radium 226	EPA 903 0	pCi/L	0.2	0.5	< 0.2	< 0.2	0.4	
Radium Error Estimate ±				0.2	-	-	0.2	
Radium 228	EPA 904 0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Radium Error Estimate ±				-	-	-	-	
Thorium 230	EPA 907 0	pCi/L	0.2	< 0.2	< 0.2	< 0.2	< 0.2	
Thorium Error Estimate ±				-	-	-	-	
Lead 210	NERHL-65-4	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
Lead Error Estimate ±				-	-	-	-	
Gross Alpha	EPA 900 0	pCi/L	1.0	< 1.0	< 1.0	< 1.0	< 1.0	
G Alpha Error Estimate ±				-	-	-	-	

Trace Organics		Method	Units	Reporting Limit	Results	Results	Results	Results
Chloroform	EPA 8260	µg/L	1 0	< 1 0	< 1 0	< 1 0	< 1 0	

Quality Assurance Data		Method	Units	Reporting Limit	Results	Results	Results	Results
Anion		meq		80 0	78 9	79 3	79 0	
Cation		meq		80 3	83 3	82 9	82 9	
SM A/C Balance		%	-5 - +5	0.24	2.70	2.23	2.41	
Calc TDS		mg/L		4893	4896	4903	4885	
TDS A/C Balance		dec %	0.80 - 1.20	1.04	1.07	1.09	1.09	

SAMPLING LOCATION MAPS



SOURCE: *URANIUM MILL LICENSE
RENEWAL APPLICATION -
ENVIRONMENTAL REPORT.
LICENSE NO. NM-INC-ML.
JNC 1981*

*SKETCH I-1
CHURCH ROCK PROJECT
SITE LOCATION PLAN
16674-000*

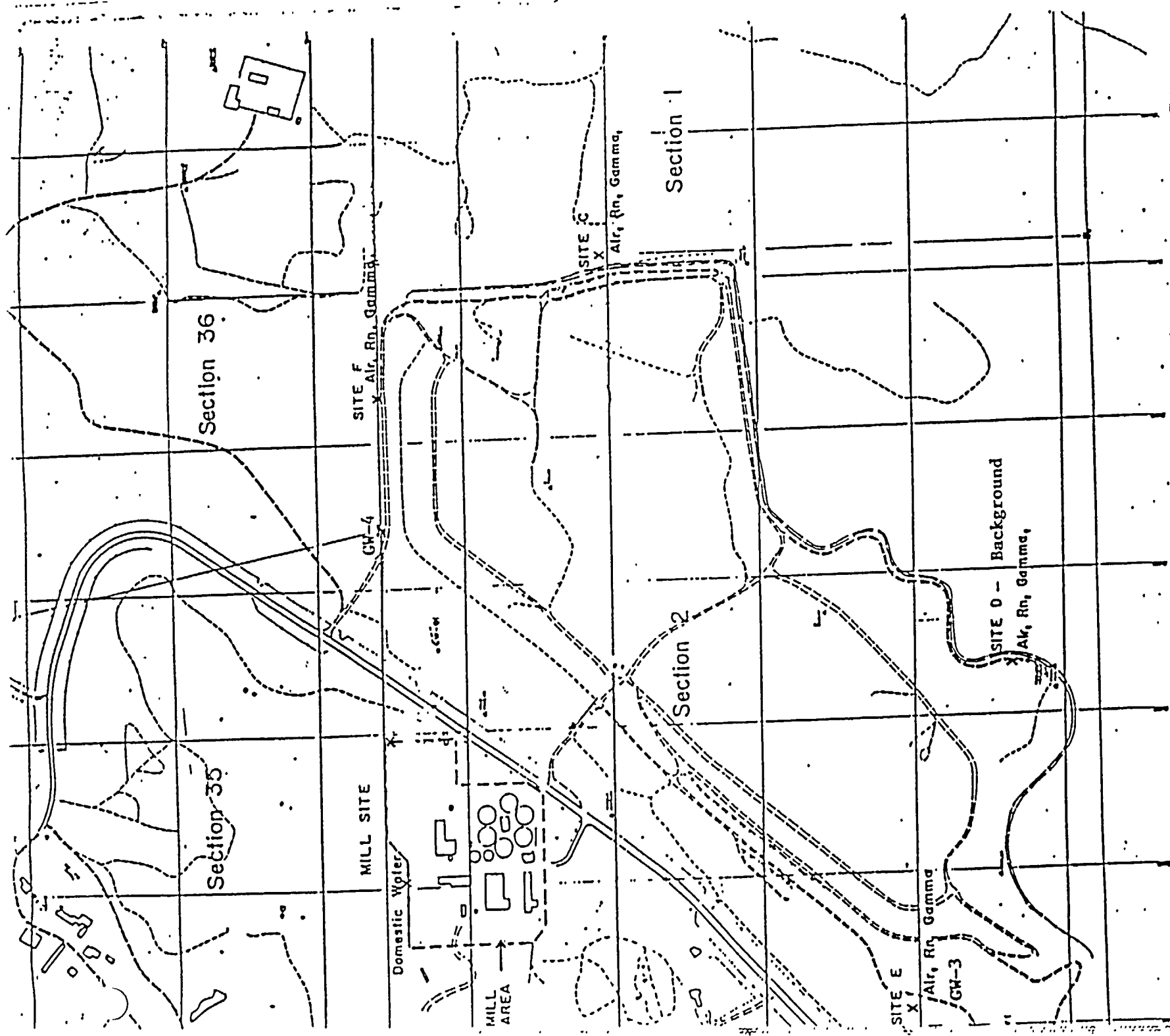


FIGURE 2



UNITED PACIFIC CORPORATION	
PLANNING DIVISION	
SACRAMENTO, CALIFORNIA	
DATE: 11/1/61	
BY: J. L. ...	