# UNITED NUCLEAR CORPORATION

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FEB 25 2002

**CERTIFIED - RETURN RECEIPT REQUESTED**

February 19, 2002

Dwight Chamberlain, Chief
US Nuclear Regulatory Commission, Region IV
Division of Radiation Safety and Safeguards
611 Ryan Plaza Drive, Suite 400
Arlington, TX 76011-4351

Re: Semi-Annual Effluent and Environmental Monitoring
Reports from July to December, 2001

Dear Mr. Chamberlain:

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 July 01, 2001 through December 31, 2001. The data is also reported on the format required in Regulatory Guide 4.14.

Available monitoring data in this report are in the 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 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,

Max Chischilly Jr.

Max Chischilly, Jr.
Radiation Safety Officer

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

# ENVIRONMENTAL INSPECTION REPORTS

# ENVIRONMENTAL INSPECTION

DATE: 7-31-01 TIME START: 1315

INSPECTOR: Mark Chischilly Jr. TIME END: 1420

| TAILINGS AREA: | OKAY | | PROBLEM | COMMENTS |
|---|---|---|---|---|
| 1. Fences | ✓ | | | |
| 2. Air Monitors | — | NA | — | ONLY UNDER AN RWP |
| 3. Radiation Warning Signs | ✓ | | | |
| 4. Locked Gates | ✓ | | | |

ACTION TAKEN:

# ENVIRONMENTAL INSPECTION

DATE: 8-30-01 TIME START: 1300

INSPECTOR: Max Chischilly Jr. TIME END: 1440

| TAILINGS AREA: | OKAY | PROBLEM | COMMENTS |
|---|---|---|---|
| 1. Fences | ✓ | | SEE BELOW |
| 2. Air Monitors | - NA - | | ONLY UNDER AN RWP WHEN NEEDED |
| 3. Radiation Warning Signs | ✓ | | |
| 4. Locked Gates | ✓ | | |

ACTION TAKEN: OTHER COMMENT: APPROXIMATELY 80' OF DOWNED OR DAMAGED FENCELINE AND FENCE POST CAUSED BY FLOODING CONDITIONS ON 8-10-01 IS REPAIRED AND REPLACED DURING THE WEEK OF 8-20-01. THIS REPAIRED FENCELINE IS LOCATED AT THE BOTTOM OF THE ARROYO, NEXT TO 2 DRAINAGE CULVERTS AND NEAR THE MAIN NORTH ENTRANCE WAY OF THE RECLAIMED TAILINGS AREA.

# ENVIRONMENTAL INSPECTION

DATE: 9-25-01 TIME START: 1350

INSPECTOR: Max Chischilly Jr. TIME END: 1500

| TAILINGS AREA: | OKAY | PROBLEM | COMMENTS |
|---|---|---|---|
| 1. Fences | ✓ | | |
| 2. Air Monitors | — NA | — | ONLY UNDER AN RWP WHEN NEEDED |
| 3. Radiation Warning Signs | ✓ | | |
| 4. Locked Gates | ✓ | | |

ACTION TAKEN:

# ENVIRONMENTAL INSPECTION

DATE: 10-22-01 TIME START: 1050

INSPECTOR: Mark Chinchilly Jr. TIME END: 1200

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

ACTION TAKEN:

# ENVIRONMENTAL INSPECTION

DATE: 11-27-01 TIME START: 1035

INSPECTOR: Max Chadwell Jr. TIME END: 1200

| TAILINGS AREA: | OKAY | PROBLEM | COMMENTS |
|---|---|---|---|
| 1. Fences | ✓ | | |
| 2. Air Monitors | - | NA - | ONLY UNDER AN RWP WHEN NEEDED. |
| 3. Radiation Warning Signs | ✓ | | |
| 4. Locked Gates | ✓ | | |

ACTION TAKEN:

# ENVIRONMENTAL INSPECTION

DATE: 12-18-01 TIME START: 1100

INSPECTOR: Maj Chockelly Jr. TIME END: 1215

| TAILINGS AREA: | OKAY | PROBLEM | COMMENTS |
|---|---|---|---|
| 1. Fences | ✓ | | |
| 2. Air Monitors | - NA - | | ONLY UNDER AN RWP WHEN NECESSARY |
| 3. Radiation Warning Signs | ✓ | | |
| 4. Locked Gates | ✓ | | |

ACTION TAKEN:

# GROUNDWATER RESULTS

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration uci/ml | Error Est. uci/ml | LLD uci/ml |
|---|---|---|---|---|---|---|---|
| 7/10/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.58E-08 | | 2.00E-10 |
| 3rd-Qr. | | Water Well | Th-230 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| (Quar. Sample) | | | Ra-266 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | <1.00E-09 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:
PH (STD. Units) = 6.87
Cond. (µ MHOS) = 5,070
Water Depth (Ft.) = 50.7
Temp. (°C) = 16.2

COMMENTS:

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration uci/ml | Error Est. uci/ml | LLD uci/ml |
|---|---|---|---|---|---|---|---|
| 8/7/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.81E-08 | | 2.00E-10 |
| 3rd-Qr. | | Water Well | Th-230 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| (Monthly Sample) | | | Ra-266 (dissolved) or total | | 4.00E-10 | 3.00 E-10 | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | <1.00 E-09 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:

| | |
|---|---|
| PH (STD. Units) = | 6.59 |
| Cond. (µ MHOS) = | 4,980 |
| Water Depth (Ft.) = | 50.68 |
| Temp. (°C) = | 14.9 |

COMMENTS:

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration uci/ml | Error Est. uci/ml | LLD uci/ml |
|---|---|---|---|---|---|---|---|
| 9/11/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.43E-08 | | 2.00E-10 |
| 3rd-Qr. | | Water Well | Th-230 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| (Monthly Sample) | | | Ra-266 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | <1.00E-9 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:

| | |
|---|---|
| PH (STD. Units) = | 6.65 |
| Cond. (µ MHOS) = | 4,880 |
| Water Depth (Ft.) = | 50.5 |
| Temp. (°C) = | 17.1 |

COMMENTS:

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration µci/ml | Error Est. µci/ml | LLD µci/ml |
|---|---|---|---|---|---|---|---|
| 10/02/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.37E-08 | | 2.00E-10 |
| 4th-Qr. | | Water Well | | | | | |
| | | | Th-230 (dissolved) or total | | < 2.00E-10 | | 2.00E-10 |
| Quartery Sample | | | | | | | |
| | | | Ra-266 (dissolved) or total | | 3.00E-10 | 2.00E-10 | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | < 1.00E-09 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:
PH (STD. Units) = 6.83
Cond. (µ MHOS) = 4,960
Water Depth (Ft.) = 50.45
Temp. (°C) = 15.1

COMMENTS:

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration µci/ml | Error Est. µci/ml | LLD µci/ml |
|---|---|---|---|---|---|---|---|
| 11/06/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.28E-08 | | 2.00E-10 |
| Monthly Sample | | Water Well | | | | | |
| | | | Th-230 (dissolved) or total | | <2.00E-10 | | 2.00E-10 |
| | | | Ra-266 (dissolved) or total | | 4.00E-10 | 2.00E-10 | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | <1.00E-09 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:
PH (STD. Units) = 6.79
Cond. (µ MHOS) = 4,990
Water Depth (Ft.) = 50.35
Temp. (°C) = 15.9

COMMENTS:

# QUARTERLY LIQUID SAMPLES

| Date/Qr. | Location | Type | Radionuclide | Concentration Mg/l | Concentration µci/ml | Error Est. µci/ml | LLD µci/ml |
|---|---|---|---|---|---|---|---|
| 12/04/01 | GW-3 | Ground | U-Nat (dissolved) or total | | 4.92E-08 | | 2.00E-10 |
| Monthly Sample | | Water Well | Th-230 (dissolved) or total | | < 2.00E-10 | | 2.00E-10 |
| | | | Ra-266 (dissolved) or total | | < 2.00E-10 | | 2.00E-10 |
| | | | Pb-210 (dissolved) or total | | < 1.00E-09 | | 1.00E-09 |
| | | | Po-210 (dissolved) or total | | | | 1.00E-09 |

UNC Field Data:
PH (STD. Units) = 6.95
Cond. (µ MHOS) = 4,910
Water Depth (Ft.) = 50.20
Temp. (°C) = 12.8

COMMENTS:

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

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

| | | | | |
|---|---|---|---|---|
| WELL ID: | GW-3 | GW-3 | GW-3 | GW-3 |
| LABORATORY ID: | C01080349-012 | C01090400-012 | C01110315-013 | C01120222-013 |
| SAMPLE DATE/TIME: | 08/07/2001 13:10 | 09/11/2001 11:10 | 11/06/2001 10:05 | 12/04/2001 13:00 |
| RECEIVED DATE/TIME: | 8/10/2001 10:30 | 09/14/2001 10:00 | 11/09/2001 10:00 | 12/07/2001 10:00 |
| REPORT DATE: | September 26, 2001 | October 15, 2001 | December 12, 2001 | December 29, 2001 |
| UNC SUBMITTAL #: | TE-12-8-2001 | TE-14-9-2001 | TE-17-11-2001 | TE-18-12-2001 |

| Major Ions | Method | Units | Reporting Limit | Results | Results | Results | Results |
|---|---|---|---|---|---|---|---|
| Calcium | EPA 200.7 | mg/L | 0.05 | 820 | 840 | 886 | 833 |
| Magnesium | EPA 200.7 | mg/L | 0.01 | 270 | 270 | 280 | 260 |
| Sodium | EPA 200.7 | mg/L | 0.05 | 210 | 233 | 229 | 201 |
| Potassium | EPA 200.7 | mg/L | 0.10 | 9.40 | 8.9 | 9.6 | 8.2 |
| Bicarbonate | SM 2320-B | mg/L | 0.10 | 1390 | 1400 | 1420 | 1440 |
| Sulfate | EPA 200.7 | mg/L | 1.0 | 1800 | 1810 | 2050 | 1720 |
| Chloride | EPA 200.7 | mg/L | 1.0 | 160 | 154 | 173 | 148 |
| Ammonia as N | SM 4500-NH3-G | mg/L | 0.05 | 0.11 | 0.10 | 0.08 | 0.11 |
| Nitrate + Nitrite as N | EPA 353.2 | mg/L | 0.10 | 90.5 | 104 | 88.0 | 91.0 |
| **Non-Metals** | | | | | | | |
| Total Dissolved Solids | SM 2540-C | mg/L | 1.0 | 5010 | 4980 | 5020 | 5020 |
| pH | SM 4500-H-B | std. units | 0.10 | 7.20 | 7.50 | 7.60 | 7.40 |
| **Trace Metals, dissolved** | | | | | | | |
| Aluminum | EPA 200.8 | mg/L | 0.10 | 0.10 | 0.13 | 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 | 2.00 | 1.99 | 1.91 | 1.93 |
| 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 | 0.0710 | 0.0655 | 0.0632 | 0.0726 |
| Radium 226 | EPA 903.0 | pCi/L | 0.2 | 0.4 | < 0.2 | 0.4 | < 0.2 |
| Radium Error Estimate ± | | | | 0.3 | - | 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 | | 71.3 | 72.4 | 77.1 | 70.1 |
| Cation | meq | | 73.0 | 75.0 | 77.9 | 72.4 |
| SM A/C Balance | % | -5 - +5 | 1.20 | 1.73 | 0.52 | 1.59 |
| Calc TDS | mg/L | | 4367 | 4479 | 4729 | 4295 |
| TDS A/C Balance | dec. % | 0.80 - 1.20 | 1.15 | 1.11 | 1.06 | 1.17 |

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

| | | | | |
|---|---|---|---|---|
| WELL ID: | GW-3 | GW-3 | GW-3 | GW-3 |
| LABORATORY ID: | 01-30299-10 | 01-32151-6 | 01-34456-12 | C01100228-013 |
| SAMPLE DATE/TIME: | 01/09/2001 09:35 | 04/10/2001 09:55 | 07/10/2001 10:40 | 10/02/2001 09:45 |
| DATE/TIME RECEIVED: | 01/12/2001 10:20 | 04/13/2001 10:00 | 07/13/2001 10:30 | 10/05/2001 10:00 |
| REPORT DATE: | February 12, 2001 | May 15, 2001 | August 8, 2001 | October 22, 2001 |
| QUARTER REPRESENTED: | First 2001 | Second 2001 | Third 2001 | Fourth 2001 |
| UNC SUBMITTAL #: | TE-1-1-2001 | TE-7-4-2001 | TE-10-7-2001 | TE-15-10-2001 |

| Major Ions | Method | Units | Reporting Limit | Results | Results | Results | Results |
|---|---|---|---|---|---|---|---|
| Calcium | EPA 200.7 | mg/L | 1.0 | 830 | 945 | 888 | 810 |
| Magnesium | EPA 200.7 | mg/L | 1.0 | 265 | 287 | 288 | 260 |
| Sodium | EPA 200.7 | mg/L | 1.0 | 207 | 207 | 244 | 224 |
| Potassium | EPA 200.7 | mg/L | 1.0 | 8.5 | 9.1 | 9.0 | 8.5 |
| Bicarbonate | SM 2320-B | mg/L | 0.10 | 1210 | 1250 | 1350 | 1450 |
| Sulfate | EPA 200.7 | mg/L | 1.0 | 1850 | 2070 | 1880 | 1950 |
| Chloride | EPA 200.7 | mg/L | 1.0 | 125 | 128 | 125 | 169 |
| Ammonia as N | SM 4500-NH3-G | mg/L | 0.05 | < 0.05 | 0.14 | 0.11 | 0.15 |
| Nitrate + Nitrite as N | EPA 353.2 | mg/L | 0.10 | 115 | 108 | 98.0 | 92.0 |
| **Non-Metals** | | | | | | | |
| Total Dissolved Solids | SM 2540-C | mg/L | 1.0 | 4660 | 4680 | 4980 | 5010 |
| pH | SM 4500-H-B | std. units | 0.10 | 7.62 | 7.20 | 7.10 | 7.40 |
| **Trace Metals** | | | | | | | |
| 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 | 1.90 | 1.91 | 2.22 | 1.78 |
| 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 | EPA 200.8 | mg/L | 0.0003 | 0.0560 | 0.0570 | 0.0676 | 0.0646 |
| Radium 226 | EPA 903.0 | pCi/L | 0.2 | < 0.2 | < 0.2 | < 0.2 | 0.3 |
| Radium Error Estimate ± | | | | | | - | 0.2 |
| Radium 228 | EPA 904.0 | pCi/L | 1.0 | 3.6 | 2.4 | < 1.0 | < 1.0 |
| Radium Error Estimate ± | | | | 1.2 | 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 | 1.3 | < 1.0 | < 1.0 |
| G. Alpha Error Estimate ± | | | | | 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 | | 70.1 | 74.9 | 71.8 | 75.7 |
| Cation | meq | | 72.9 | 80.5 | 79.4 | 72.2 |
| SM A/C Balance | % | -5 - +5 | 1.95 | 3.59 | 4.99 | -2.36 |
| Calc TDS | mg/L | | 4402 | 4752 | 4545 | 4556 |
| TDS A/C Balance | dec. % | 0.80 - 1.20 | 1.06 | 0.98 | 1.10 | 1.10 |

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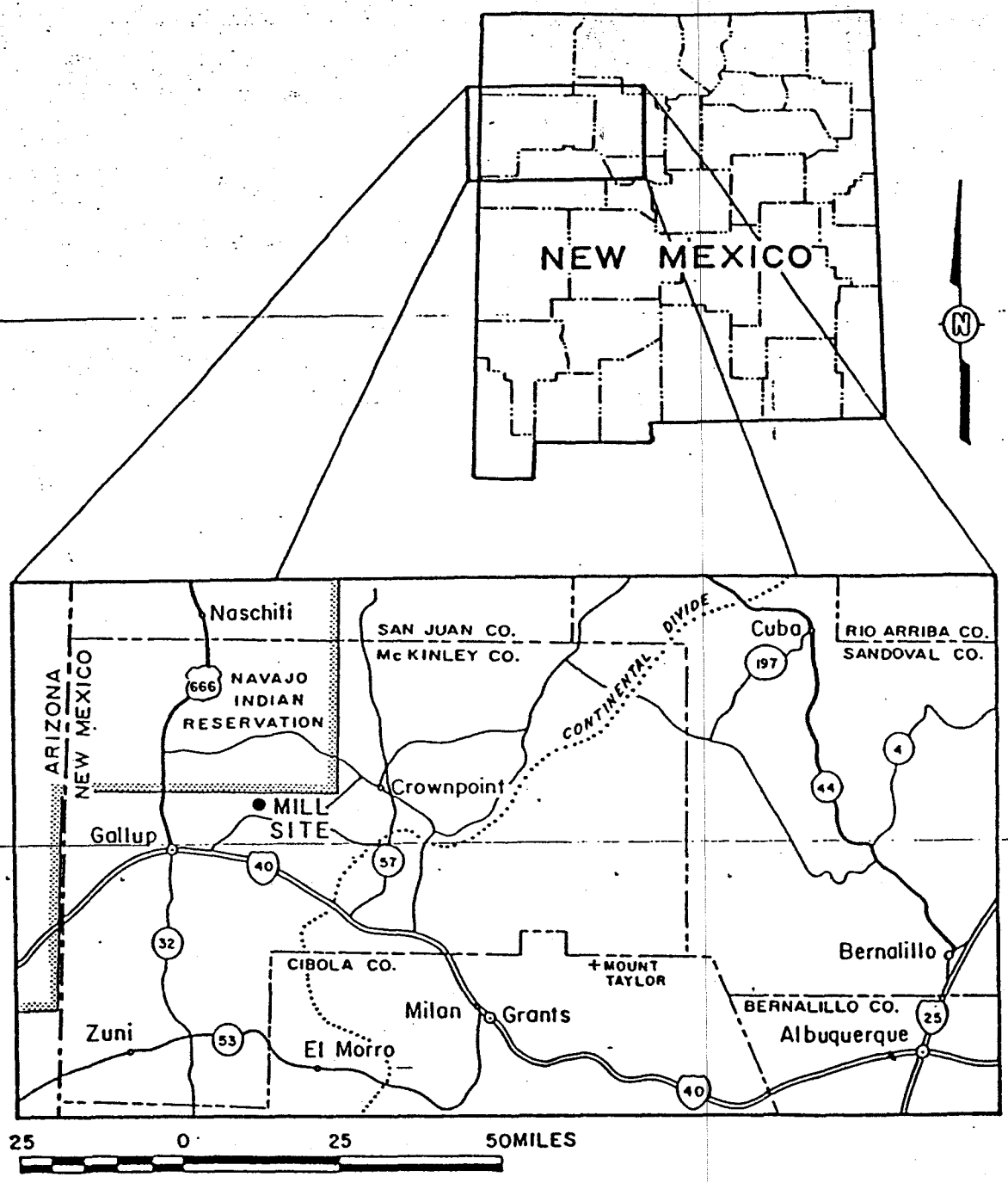
# SAMPLING LOCATION MAPS




SOURCE:
URANIMIUM MILL LICENSE
RENEWAL APPLICATION-
ENVIRONMENTAL REPORT.
LICENSE NO. NM-UNC-ML.
JNC 1981

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

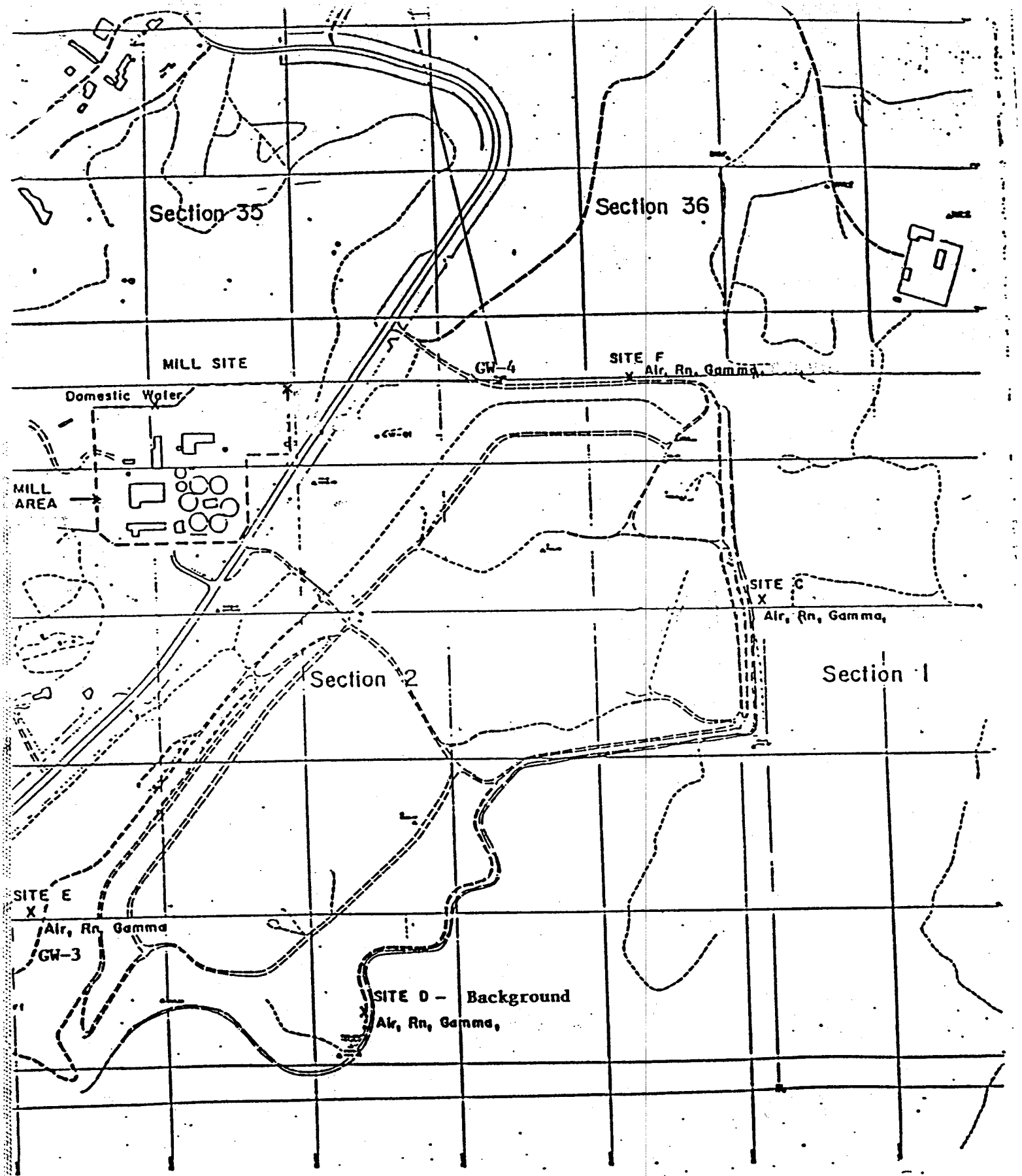
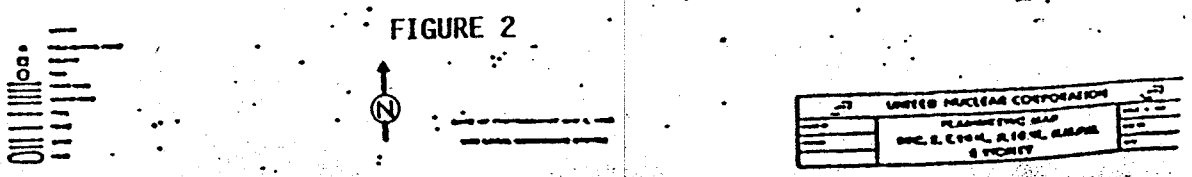

Section 35
Section 36
MILL SITE
GW-4
SITE F
Air, Rn, Gamma,
Domestic Water
MILL AREA
SITE C
Air, Rn, Gamma,
Section 2
Section 1
SITE E
Air, Rn, Gamma
GW-3
SITE D – Background
Air, Rn, Gamma,

FIGURE 2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