



Rio Algom Mining LLC

July 10, 2003

40-8905

Mr. Kevin Myers
Groundwater Section
New Mexico Environment Department
P.O. Box 26110
Santa Fe, NM 87502

Re: **Discharge Plan - 362**
Old Stope Leaching

Dear Mr. Myers,

Attached is the groundwater monitoring report for the 1st and 2nd quarters of 2003 as required by discharge Plan - 362. This report presents the mine extraction and injection rates as well as analytical results.

If you have any questions or need additional information, please call me at 287-8851.

Regards,

QUIVIRA MINING COMPANY

Peter Luthiger
Supervisor, Radiation Safety
and Environmental Affairs

Attachments: As stated

xc: T. Fletcher
P. Goranson
NRC-MD (License SUA-1473, Docket 40-8905)
file

NMSS01

QUIVIRA MINING COMPANY
Discharge Plan DP-362
Monitoring Report - 1st Quarter 2003

| Mine | Mine Water Extraction (gpm) | | | | Mine Water Injection (gpm) | | |
|----------------|--------------------------------|--------|--------|--|-------------------------------|--------|--------|
| | Jan-03 | Feb-03 | Mar-03 | | Jan-03 | Feb-03 | Mar-03 |
| Section 17 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Section 19 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Section 22 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Section 24 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Section 30/30W | 369 | 300 | 374 | | 0 | 0 | 0 |
| Section 33 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Section 35 | 0 | 0 | 0 | | 0 | 0 | 0 |
| Totals | 369 | 300 | 374 | | 0 | 0 | 0 |

QUIVIRA MINING COMPANY
Discharge Plan DP-362
Monitoring Report - 1st Quarter 2003

| Parameter | Sampling Location | | | | | | | |
|-----------|-------------------|---------|---------|---------|-------------|---------|---------|-----------|
| | Sec. 17 | Sec. 19 | Sec. 22 | Sec. 24 | Sec. 30/30W | Sec. 33 | Sec. 35 | Reservoir |
| Date | | | | | 3/3/03 | | | 3/3/03 |
| pH | | | | | 7.24 | | | 7.91 |
| Ca | | | | | 416 | | | 431 |
| K | | | | | 14.8 | | | 14.8 |
| Mg | | | | | 198 | | | 159 |
| Na | | | | | 341 | | | 332 |
| SO4 | | | | | 1950 | | | 1800 |
| Cl | | | | | 286 | | | 374 |
| CO3 | | | | | < 2 | | | < 2 |
| HCO3 | | | | | 319 | | | 232 |
| TDS | | | | | 3540 | | | 3310 |
| Pb | | | | | < 0.0005 | | | < 0.0005 |
| Se | | | | | 0.046 | | | 0.044 |
| Ag | | | | | < 0.01 | | | < 0.01 |
| Fe | | | | | < 0.02 | | | < 0.02 |
| Mo | | | | | 0.44 | | | 0.28 |
| U | | | | | 6.31 | | | 1.69 |
| Ra-226 | | | | | 95.4 | | | 1.45 |
| Ra-228 | | | | | 1.35 | | | 0.6 |

Notes: All values in milligrams per liter except Ra-226 and Ra-228 which is in picocuries per liter and pH which is in standard units.
Section 30/30West was only location with activity during 1st quarter 2003.

QUIVIRA MINING COMPANY
Discharge Plan DP-362
Monitoring Report - 2nd Quarter 2003

| Parameter | Sampling Location | | | | | | |
|-----------|-------------------|---------|---------|---------|-------------|---------|---------|
| | Sec. 17 | Sec. 19 | Sec. 22 | Sec. 24 | Sec. 30/30W | Sec. 33 | Sec. 35 |
| Date | | | | | 6/10/03 | | 6/10/03 |
| pH | | | | | 7.14 | | 7.81 |
| Ca | | | | | 436 | | 421 |
| K | | | | | 17.6 | | 18.6 |
| Mg | | | | | 167 | | 182 |
| Na | | | | | 384 | | 424 |
| SO4 | | | | | 1750 | | 1910 |
| Cl | | | | | 320 | | 410 |
| CO3 | | | | | < 2 | | < 2 |
| HCO3 | | | | | 310 | | 193 |
| TDS | | | | | 3520 | | 3630 |
| Pb | | | | | < 0.002 | | 0.002 |
| Se | | | | | 0.032 | | 0.02 |
| Ag | | | | | < 0.005 | | < 0.005 |
| Fe | | | | | < 0.02 | | < 0.02 |
| Mo | | | | | 0.36 | | 0.32 |
| U | | | | | 5.55 | | 1.8 |
| Ra-226 | | | | | 97.1 | | 2.88 |
| Ra-228 | | | | | 1.61 | | 0.2 |

Notes: All values in milligrams per liter except Ra-226 and Ra-228 which is in picocuries per liter and pH which is in standard units.
Section 30/30West was only location with activity during 2nd quarter 2003.