

Homestake Mining Company of California

Jesse R. Toepfer Closure Manager

28 August 2014

Mr. David Mayerson New Mexico Environment Department Ground Water Pollution Prevention Section P.O. Box 26110 Santa Fe, NM 87502

RE: Q2 2014 Quarterly Report In Accordance With Requirements of Discharge Plan DP-725

Mr. Mayerson:

This report for the 2nd quarter 2014 is hereby submitted to the New Mexico Environment Department (NMED) as per the requirements of Homestake Mining Company of California's (HMC) Discharge Plan DP-725 at the Grants Reclamation Project.

Water quality data results, as attached, pertain to the lined lagoons (East Collection Pond, West Collection Pond, Evaporation Ponds 1,2, and 3, as well as monitoring wells X, DD, and DD2 which are utilized at the site for the ongoing groundwater remediation program. Tabular data is also included with respect to the leak detection recovery systems (LDRS) for the aforementioned Evaporation Ponds.

HMC placed 43.08 acre-feet of collected water and reverse osmosis (RO) plant brine water into the lined evaporation ponds during the period covered by this report.

The leak detection sumps in Evaporation Pond 2 (EP-2) leak detection / recovery system (LDRS) cells were operational during the quarter and within permit limits. The numbers reflected on the enclosed Leak Detection Recovery System (LDRS) spreadsheet for EP-2 reflect the meter readings for each of the five LDRS cells in the pond. The LDRS sumps were routinely pumped until no discharge flow is observed as specified by permit condition. At the present time, observed seepage rates are below the permit limit requirements that would require an investigation.

Also enclosed is spreadsheet monitoring data for Evaporation Pond 3 (EP-3) that includes monitoring data for the LDRS system. Cell A of EP-3 is LDRS monitored with ports A-1 through A-5 and Cell B is LDRS monitored with Ports B-1 through B-5; this information is reported on the attached spreadsheet. The LDRS sumps were routinely pumped until no discharge flow is observed. At the current time, observed seepage rates are below the permit limits that would require an investigation.

No significant repairs or modifications were made to the existing piping / plumbing system related to the waste water management systems during the quarter. During the quarter, no reportable spills occurred in relation to the waste water management system. Freeboard limits for all the evaporation ponds were maintained during the 2nd quarter 2014.

P.O. Box 98 / Hwy. 605 Grants, NM 87020 Tele: (505) 287-4456 Fax: (505) 287-9289

FSMEZO



Homestake Mining Company of California

Q2 2014 Quarterly Report IAW Req. DP-725

28 August 2014

Thank you very kindly for your time and attention. If you have any questions regarding the foregoing information, I can be reached at 505-287-4456 extension 34 or directly via cell phone at 505.290.3067.

Respectfully,

Jesse R. Toepfer

Closure Manager

HOMESTAKE MINING COMPANY OF CALIFORNIA

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Discharge Plan (DP-725) Water Quality Data 1st 2nd Quarters, 2014

| Sample Point Name | Date | WL (feet) | Temp (deg.C) | pH (f) (std. units) | Cond (calc.) (micromh os/cm) | CO3 (mg/l) | Ca (mg/l) | CI (mg/l) | HCO3 (mg/l) | Mg (mg/l) | K (mg/l) | Na (mg/l) | SO4 (mg/l) | TDS (mg/l) | NO3 (mg/l) | Mn(t) (mg/l) |
|-----------------------------|---------|--------------|-----------------|---------------------------|---------------------------------------|---------------|--------------|--------------|----------------|--------------|-------------|--------------|---------------|---------------|---|-----------------|
| Parameter Code | | 13 | 12 | 109 | 51 | 6 | 1 | 7 | 5 | 2 | 3 | 4 | 8 | 10 | 39 | 134 |
| Site Standard Qal aquifer** | | | | | | | | 250 | | | | | 1500 | 2734 | 12 | |
| DD | 2/11/14 | 48.65 | 10.40 | 7.17 | 3537 | (13.00) | 2000 | 67 | 21 | | | 90.000 | 1790 | 3020 | | |
| | 5/14/14 | 48.50 | 14.30 | 7.26 | 34.61 | <5 | 424 | 71 | 358 | 101 | 6.7 | 356 | 1840 | 3060 | 5.5 | |
| DD2 | 2/18/14 | 47.23 | 13.40 | 7.06 | 2868 | | | | | | | | | | | |
| DUZ | 5/14/14 | 47.30 | 15.70 | 7.20 | 2808 | <5 | 308 | 65 | 362 | 78.4 | 5.6 | 296 | 1430 | 2400 | <.1 | |
| | 2/10/14 | | 7.70 | 9.47 | 6402 | | | 326 | | | | | 2410 | 4750 | | 0.00 |
| E Coll Pond | 4/8/14 | | 16.40 | 9.55 | 6940 | | | 378 | | | | | 2730 | 5130 | | 0.00 |
| telli tel aarsi | 5/5/14 | | 18.60 | 9.52 | 10020 | | | 545 | | * 3 1 1 | 87.01 | | 4500 | 7900 | | 0.00 |
| | 2/10/14 | | 7.20 | 9.54 | 41310 | | | 3620 | | | | | 16700 | 39800 | | 0.01 |
| Evap Pond 1 | 4/8/14 | | 16.30 | 9.54 | 52130 | | | 5560 | | | | | 23400 | 52500 | | 0.01 |
| | 5/5/14 | | 16.20 | 9.45 | 55940 | | # 18 | 6040 | | | | | 25000 | 61500 | | <0.0 |
| | 2/10/14 | | 4.70 | 9.37 | 20630 | | | 1070 | | | | | 8850 | 18300 | | 0.01 |
| Evap Pond 2 | 4/8/14 | 4 | 17.10 | 9.34 | 20230 | * | | 1200 | | | 7.1 | | 9470 | 17800 | | 0.01 |
| | 5/5/14 | | 14.30 | 9.59 | 20450 | | | 1330 | | | | | 9820 | 18000 | | 0.01 |
| | 2/10/14 | | 8.80 | 9.39 | 90970 | | | 21800 | an an quant | | | | 19800 | 105000 | | 0.0 |
| Evap Pond 3-A | 4/8/14 | | 16.00 | 9.31 | 110900 | | | 30100 | | | | | 35000 | 153000 | | 0.01 |
| | 5/5/14 | 11. 19.7 | 16.10 | 9.41 | 114500 | | | 35600 | 4 | | | | 25900 | 159000 | | <0.0 |
| | 2/10/14 | | 7.90 | 9.51 | 59470 | | | 8200 | | | | | 22100 | 62000 | | 0.01 |
| Evap Pond 3-B | 4/8/14 | | 15.30 | 9.43 | 77520 | | | 10600 | | 111 | | | 39900 | 89200 | | 0.01 |
| | 5/5/14 | | 16.20 | 9.48 | 86030 | | | 12400 | | | | | 34000 | 108000 | | <0.0 |
| | 2/10/14 | | 8.00 | 9.67 | 6121 | 11 11 | | 288 | | 227.2 | | | 2220 | 4470 | | 0.00 |
| W Coll Pond | 4/8/14 | | 15.70 | 9.71 | 6768 | | | 386 | | | | | 2770 | 4740 | | 0.00 |
| | 5/5/14 | | 15.80 | 9.53 | 10230 | 3.20 | 11, | 542 | | | 19. | | 4490 | 7910 | 200000000000000000000000000000000000000 | 0.00 |
| v | 2/11/14 | | 16.00 | 7.33 | 1412 | | | 96 | | | | | 298 | 920 | | |
| . X 111. | 4/21/14 | 24.10 | 18.80 | 6.93 | 1352 | | | 105 | | A | | | 295 | 910 | 44. | |

Concentrations greater than site standards are in **bold**.

f = field measurement

t = analyte, total

^{** =} applies to Wells DD, DD2, and X

Discharge Plan (DP-725) Water Quality Data 1st 2nd Quarters, 2014

| Sample Point Name | Date | Se (mg/l) | Se (t) (mg/l) | Mo (mg/l) | Mo (t) (mg/l) | Unat (mg/l) | Unat (t) (mg/l) | Ra226 (pCi/l) | Ra228 (pCi/l) | Ra226+ Ra228 (pCi/l) | Th230 (pCi/I) | V (mg/l) |
|--|---------|--------------|------------------|--------------|------------------|----------------|--------------------|--|--|----------------------------|------------------|-------------|
| Parameter Code | | 40 | 140 | 36 | 136 | 15 | 115 | 45 | 57 | 372 | 48 | 42 |
| Site Standard Qal aquifer** | | 0.32 | 1 | 0.1 | | 0.16 | | 120 | | 5 | 0.3 | 0.02 |
| DD | 2/11/14 | 0.038 | 31.4 | <0.03 | | 0.142 | 2 | | 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1 | | | |
| | 5/14/14 | 0.053 | | <0.03 | | 0.157 | p Fan T | 0.08 | 0.9 | 0.98 | 0.03 | <0.01 |
| | 2/18/14 | <0.005 | | <0.03 | | 0.226 | | | | | | |
| DD2 | 5/14/14 | <0.005 | | <0.03 | | 0.228 | | 0.65 | 1 | 1.65 | 0.02 | <0.01 |
| S-1 | 2/10/14 | 0.388 | 0.421 | 13.2 | 15.2 | 8.46 | 8.9 | | | | | |
| E Coll Pond | 4/8/14 | 0.333 | 0.344 | 14 | 14.6 | 9.98 | 10.9 | | | | | |
| (1) (1) (1) (2) (1) (2) (1) (2) (1) (2) (2) (2) (2) (2) (2) (2) (2) (2) (2 | 5/5/14 | 0.655 | 0.657 | 21.5 | 21.7 | 16 | 16.4 | | 33 33 | | | *** |
| | 2/10/14 | 0.7 | 0.7 | 95 | 182 | 103 | 112 | | | | | |
| Evap Pond 1 | 4/8/14 | 0.46 | 0.44 | 152 | 180 | 129 | 129 | - | | | | |
| | 5/5/14 | 0.52 | 0.68 | 204 | 260 | 151 | 166 | | | | | |
| | 2/10/14 | 0.686 | 0.733 | 51.1 | 56.5 | 28.7 | 28.8 | | | | | |
| Evap Pond 2 | 4/8/14 | 0.629 | 0.67 | 46.9 | 50.4 | 26 | 28.6 | | | | | |
| | 5/5/14 | 0.646 | 6.94 | 45 | 49.7 | 22.7 | 24.7 | | | | | |
| | 2/10/14 | 0.67 | 0.62 | 448 | 920 | 561 | 616 | 77 B | | | | |
| Evap Pond 3-A | 4/8/14 | 0.55 | 0.59 | 638 | 1200 | 707 | 914 | 61 (01 (04 (04 (04 (04 (04 (04 (04 (04 (04 (04 | | | | |
| # 15 mm | 5/5/14 | 0.38 | 0.57 | 1310 | 1250 | 809 | 825 | | | | | |
| | 2/10/14 | 0.62 | 0.65 | 258 | 398 | 218 | 272 | £ | | | | |
| Evap Pond 3-B | 4/8/14 | 0.55 | 0.59 | 301 | 373 | 239 | 269 | | | | | |
| 7(488) | 5/5/14 | 0.722 | 0.91 | 450 | 514 | 295 | 324 | | | | | |
| W 42 | 2/10/14 | 0.423 | 0.432 | 14.1 | 15.4 | 9.4 | 9.33 | The same of | * | 1 | 1 | |
| W Coll Pond | 4/8/14 | 0.401 | 0.41 | 13.7 | 14.3 | 12.5 | 13.6 | | | | | |
| 137 | 5/5/14 | 0.593 | 0.648 | 19.7 | 21.3 | 15.3 | 16 | | | | | |
| V | 2/11/14 | 0.013 | | 0.07 | | 0.0496 | | #1: # a | | | | |
| X | 4/21/14 | 0.009 | | 0.07 | | 0.042 | | E | 2.20 | | | |

Concentrations greater than site standards are in **bold**.

Evaporation Pond #2 LDRS Sump Collection Volumes**

| | No. | 1 | No | . 2 | No | . 3 | No | . 4 | No | . 5 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Date | Reading | Gallons |
| Previous Reading | 76200 | | 17410 | | 241920 | | 937450 | | 321320 | |
| 4/7 | 76200 | 0 | 22570 | 5160 | 241920 | 0 | 947030 | 9580 | 323320 | 2000 |
| 4/14 | 76200 | 0 | 24420 | 1850 | 241920 | 0 | 947040 | 10 | 323320 | 0 |
| 4/21 | 77250 | 1050 | 41350 | 16930 | 241920 | 0 | 947040 | 0 | 324910 | 1590 |
| 4/28 | 77250 | 0 | 44840 | 3490 | 241920 | 0 | 947040 | 0 | 324910 | 0 |
| 5/5 | 77250 | 0 | 99040 | 54200 | 241920 | 0 | 949360 | 2320 | 326580 | 1670 |
| 5/12 | 77250 | 0 | 138980 | 39940 | 241920 | 0 | 950570 | 1210 | 326580 | 0 |
| 5/19 | 77250 | 0 | 185690 | 46710 | 241920 | 0 | 950570 | 0 | 326580 | 0 |
| 5/26 | 77250 | 0 | 213500 | 27810 | 241920 | 0 | 950570 | 0 | 326580 | 0 |
| 6/2 | 77250 | 0 | 215040 | 1540 | 241920 | 0 | 950570 | 0 | 326580 | 0 |
| 6/9 | 78810 | 1560 | 254210 | 39170 | 241920 | 0 | 952330 | 1760 | 327940 | 1360 |
| 6/16 | 78810 | 0 | 258100 | 3890 | 241920 | 0 | 952420 | 90 | 328100 | 160 |
| 6/23 | 78860 | 50 | 260400 | 2300 | 241920 | 0 | 952620 | 200 | 328240 | 140 |
| 6/30 | 78860 | 0 | 260400 | 0 | 241920 | 0 | 952620 | 0 | 328240 | 0 |

^{**} LDRS sumps are pumped / purged until no flow observed

Leak Detection Sumps Evaporation Pond #3

| Call A Sumana | A-1 | | A | -2 | A- | 3 | A | 4 | A. | -5 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cell A Sumps | Reading | Gallons |
| Previous Reading | 106420 | | 126500 | | 126840 | | 21700 | | 275860 | |
| 4/7 | 106420 | 0 | 126820 | 320 | 126840 | 0 | 21700 | 0 | 276110 | 250 |
| 4/14 | 106420 | 0 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 4/21 | 106420 | 0 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 4/28 | 106420 | 0 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 5/5 | 106420 | 0 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 5/12 | 106420 | 0 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 5/19 | 106440 | 20 | 126820 | 0 | 126840 | 0 | 21700 | 0 | 276110 | 0 |
| 5/26 | 106450 | 10 | 127750 | 930 | 126840 | 0 | 21700 | 0 | 276130 | 20 |
| 6/2 | 106450 | 0 | 127750 | 0 | 126840 | 0 | 21700 | 0 | 276130 | 0 |
| 6/9 | 106450 | 0 | 127750 | 0 | 126840 | 0 | 21700 | 0 | 276130 | 0 |
| 6/16 | 106450 | 0 | 127750 | 0 | 126840 | 0 | 21700 | 0 | 276130 | - 0 |
| 6/23 | 106450 | 0 | 127750 | 0 | 126840 | 0 | 21700 | 0 | 276130 | 0 |
| 6/30 | 106450 | 0 | 127750 | 0 | 126840 | 0 | 21700 | 0 | 276130 | 0 |

| 0-40 0 | B-1 | | В- | -2 | B- | 3 | В | -4 | В | 5 |
|------------------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| Cell B Sumps | Reading | Gallons |
| Previous Reading | 135870 | | 187150 | | 419290 | | 166000 | | 129380 | |
| 4/7 | 135870 | 0 | 187150 | 0 | 426180 | 6890 | 166000 | 0 | 129380 | 0 |
| 4/14 | 135870 | 0 | 187150 | 0 | 429630 | 3450 | 166000 | 0 | 129380 | 0 |
| 4/21 | 135870 | 0 | 187150 | 0 | 440590 | 10960 | 166000 | 0 | 129380 | 0 |
| 4/28 | 135870 | 0 | 187150 | 0 | 446460 | 5870 | 166000 | 0 | 129380 | 0 |
| 5/5 | 135870 | 0 | 187150 | 0 | 446460 | 0 | 166000 | 0 | 129380 | 0 |
| 5/12 | 135870 | 0 | 187150 | 0 | 448090 | 1630 | 166000 | 0 | 129380 | 0 |
| 5/19 | 135870 | 0 | 187150 | 0 | 456540 | 8450 | 166000 | 0 | 129380 | 0 |
| 5/26 | 135870 | 0 | 187150 | 0 | 456630 | 90 | 166000 | 0 | 129380 | 0 |
| 6/2 | 135870 | 0 | 187150 | 0 | 461890 | 5260 | 166000 | 0 | 129380 | 0 |
| 6/9 | 135870 | 0 | 187150 | 0 | 461890 | 0 | 166000 | 0 | 129380 | 0 |
| 6/16 | 135870 | 0 | 187150 | 0 | 461890 | 0 | 166000 | 0 | 129380 | 0 |
| 6/23 | 135870 | 0 | 187150 | 0 | 461890 | 0 | 166000 | 0 | 129380 | 0 |
| 6/30 | 154670 | 18800 | 187150 | 0 | 462960 | 1070 | 183380 | 17380 | 130260 | 880 |

Evaporation Pond Inflow Data

| April | |
|--------------------------------|------|
| R.O. Flow to Evaporation Pond | ds |
| Tailings Sumps | |
| Tailings Pile | |
| Total Gallons to Evaporation P | onds |

| Average | Interval | Acre |
|---------|-----------|------|
| GPM | Gallons | Feet |
| 0.16 | 7,056 | |
| 14.88 | 642,990 | |
| 31.89 | 1,377,700 | |
| 47 | 2,027,746 | 6.22 |

| | May |
|---------|------------------------------|
| R.O. F | low to Evaporation Ponds |
| Tailing | s Sumps s Pile |
| Tailing | s Pile |
| Total C | Sallons to Evaporation Ponds |

| Average | Interval | Acre |
|---------|-----------|-------|
| GPM | Gallons | Feet |
| 54.18 | 2,340,576 | |
| 15.75 | 680,370 | |
| 65.95 | 2,848,900 | |
| 136 | 5,869,846 | 18.02 |

| June |
|------------------------------------|
| R.O. Flow to Evaporation Ponds |
| Tailings Sumps |
| Tailings Pile |
| Total Gallons to Evaporation Ponds |

| Average | Interval | Acre |
|---------|-----------|-------|
| GPM | Gallons | Feet |
| 53.18 | 2,297,232 | |
| 18.31 | 791,130 | |
| 70.60 | 3,049,900 | |
| 142 | 6,138,262 | 18.84 |

| 2nd Quarter Totals |
|------------------------------------|
| R.O. Flow to Evaporation Ponds |
| Tailings Sumps |
| Tailings Pile |
| Total Gallons to Evaporation Ponds |

| Average | Interval | Acre |
|---------|------------|-------|
| GPM | Gallons | Feet |
| 35.84 | 4,644,864 | |
| 16.32 | 2,114,490 | |
| 56.15 | 7,276,500 | |
| 108 | 14,035,854 | 43.08 |

Evaporation Pond Storage Transfers

| April | |
|-----------------------|--|
| Transfer EP-2 to EP-1 | |
| Transfer EP-1 to EP-3 | |

| Interval | Acre | |
|----------|------|--|
| Gallons | Feet | |
| 0 | 0.00 | |
| 1,000 | 0.00 | |

| May | I Law Allie |
|-----------------------|-------------|
| Transfer EP-2 to EP-1 | |
| Transfer EP-1 to EP-3 | |

| Interval | Acre |
|-----------|-------|
| Gallons | Feet |
| 5,689,000 | 17.46 |
| 0 | 0.00 |

| June | de la lación de la companya de la co |
|-----------------------|--|
| Transfer EP-2 to EP-1 | 1.7 |
| Transfer EP-1 to EP-3 | 3 |

| Interval | Acre Feet | |
|-----------|--------------|--|
| Gallons | | |
| 6,138,000 | 18.84 | |
| 0 | 0.00 | |

| 2nd Quarter Totals | | |
|-----------------------|--|-----|
| Transfer EP-2 to EP-1 | | |
| Transfer EP-1 to EP-3 | | 107 |

| i i | Interval | Acre |
|--------|------------|-------|
| | Gallons | Feet |
| 1 | 11,827,000 | 36.30 |
| | 1,000 | 0.00 |
| _ | | |

Water Level Elevation (MSL)

| Well | Date | Baseline Water Level Elevation | Depth to Water | Current Water Level Elevation |
|------|-----------|---|-------------------|--|
| DD | 5/14/2014 | 6592.59 | 48.50 | 6544.09 |
| DD2 | 5/14/2014 | 6593.28 | 47.30 | 6545.98 |
| Х | 4/21/2014 | 6571.61 | 24.30 | 6547.31 |