

Nevada Bureau of Air Pollution Control
 Calendar Year 2006 Actual Production/Emission Reporting Form Addendum for Mercury Emissions

Source: Cumulative NMCP Data Submittals

| | Pollutant ID | Production/Heat Rate | Production Units (eg. tons/yr) | Emissions Factor | Emissions Factor Units | HG Annual Emissions (lbs/yr) | Hours Operated | HG Co-Product (tons/yr) | Notes |
|---|--------------|----------------------|--------------------------------|------------------|------------------------|------------------------------|----------------|-------------------------|--|
| Source: Newmont Mining Corporation - Twin Creeks Mine: AP1041-0723.01 | | | | | | | | | |
| System Description: Juniper Mill Electric Induction Furnace (1 of 2 - only one operates at a time) - S2.001 | | | | | | | | | |
| | Hg | 41.90 | tpy | 0.0000853 | lbs/hr | 0.0358 | 420 | 0 | |
| System Description: Juniper Mill Electric Induction Furnace (1 of 2 - only one operates at a time) - S2.001.1 | | | | | | | | | |
| | Hg | 43.80 | tpy | 0.00208 | lbs/hr | 0.9027 | 434 | 0 | |
| System Description: Juniper Mill Carbon Kiln - S2.002 | | | | | | | | | |
| | Hg | 5,650.00 | tpy | 0.00313 | lbs/hr | 23.8850 | 7,631 | 0 | |
| System Description: Mercury Retort Circuit (A) - S2.004 | | | | | | | | | |
| | Hg | 18.78 | tpy | 0.000133 | lbs/hr | 0.4680 | 3,519 | 2.31 | |
| System Description: Mercury Retort Circuit (B) - S2.005 | | | | | | | | | |
| | Hg | 17.37 | tpy | 0.0000187 | lbs/hr | 0.0617 | 3,298 | 2.12 | |
| System Description: Mercury Retort Circuit (C) - S2.005.1 | | | | | | | | | |
| | Hg | 18.61 | tpy | 0.0000271 | lbs/hr | 0.0885 | 3,264 | 2.23 | |
| System Description: Mercury Retort Circuit (D) - S2.005.2 | | | | | | | | | |
| | Hg | 19.61 | tpy | 1.071E-06 | lbs/hr | 0.0038 | 3,519 | 2.25 | |
| System Description: Pinon Carbon Kiln - S2.021 | | | | | | | | | |
| | Hg | 0.00 | tpy | 0.171 | lbs/hr | 0.0000 | 0 | 0 | Unit did not operate in 2006. |
| System Description: Sage Mill Autoclave (Phase 1) - S2.023 | | | | | | | | | |
| | Hg | 1,673,331.00 | tpy | 0.018559 | lbs/hr | 153.4273 | 8,267 | 0 | Emissions factor based on October, 2006 test data. |
| System Description: Sage Mill Autoclave (Phase 2) - S2.024 | | | | | | | | | |
| | Hg | 1,624,170.00 | tpy | 0.00795 | lbs/hr | 64.0770 | 8,060 | 0 | |
| System Description: Electrowinning Cells (six cells ducted to common stack) | | | | | | | | | |
| | Hg | 800,000.00 | sol tons/yr | 0.00486 | lbs/hr | 42.5736 | 8,760 | 0 | |
| System Description: Juniper Mill Pregnant & Barren Tanks | | | | | | | | | |
| | Hg | 800,000.00 | sol tons/yr | 0.0163 | lbs/hr | 142.7880 | 8,760 | 0 | |
| System Description: Pinon Mill Pregnant Solution Tank | | | | | | | | | |
| | Hg | 800,000.00 | sol tons/yr | 0.000133 | lbs/hr | 1.1651 | 8,760 | 0 | |
| System Description: Pinon Mill Barren Solution Tank | | | | | | | | | |
| | Hg | 800,000.00 | sol tons/yr | 0.000133 | lbs/hr | 1.1651 | 8,760 | 0 | |
| System Description: Laboratory Sample Preparation Circuit (includes Drying Ovens) - S2.006 - S2.011 | | | | | | | | | |
| | Hg | 116.40 | tpy | | lbs/hr | 3.7300 | | 0 | Assumes 100% volatilization. |

| Source: Newmont Mining Corporation - Twin Creeks Mine: AP1041-0723.01 (continued) | | | | | | | | | |
|--|----|--------------|--------|------------|---------|----------|-------|----------|---|
| System Description: Laboratory Assay Furnaces - S2.012 - S2.016 | | | | | | | | | |
| | Hg | 6.90 | tpy | | lbs/hr | 0.0000 | | 0 | Assumes 100% volatilization. |
| System Description: Laboratory Leco Furnace | | | | | | | | | |
| | Hg | 3.00 | tpy | | lbs/hr | 0.0000 | | 0 | Assumes 100% volatilization. |
| Facility Total: | | | | | | 434.3715 | | 8.9100 | |
| Source: Queenstake Resources USA, Inc - Jerritt Canyon Mine: AP1041-0778 | | | | | | | | | |
| System Description: System 40: West Roaster Process - S2.036 & PF1.213 | | | | | | | | | |
| | Hg | 459,549.00 | tpy | 0.0004 | lbs/ton | 183.8196 | 6,837 | 1.39 | Estimate based on 2004 testing. |
| System Description: System 42: East Roaster Process - S2.041 & PF1.214 | | | | | | | | | |
| | Hg | 520,625.00 | tpy | 0.000114 | lbs/ton | 59.3513 | 6,551 | 1.57 | Estimate based on 2004 testing. |
| System Description: Carbon Bed Venturi Scrubber (System 49: Carbon Kiln - S2.041 & System 51: Retort - S2.051) | | | | | | | | | |
| | Hg | 47.00 | tpy | 0.02139 | lbs/ton | 1.0053 | 1,541 | See Note | Estimate based on 2006 testing, Hg co-product accounted for under roasters. |
| System Description: System 35: Ore Dryer - S2.026 | | | | | | | | | |
| | Hg | 974,738.00 | tpy | 0.00001403 | lbs/ton | 13.6756 | 4,958 | N/A | Based on March, 2007 testing, submitted to NDEP April, 2007. |
| System Description: Electrowinning Cells | | | | | | | | | |
| | Hg | N/A | | 0 | lbs/hr | 0.0000 | N/A | N/A | Based on February, 2001 testing. |
| System Description: System 50: Refining Process (S2.050) Induction Furnace | | | | | | | | | |
| | Hg | 10.51 | tpy | 130 | ppm Hg | 2.7000 | 831 | See Note | Based on 2006 sample of induction feed. Hg co-product accounted for under roasters. |
| System Description: Laboratory: Large Ore Drying Ovens (5 Units) | | | | | | | | | |
| | Hg | 1,094,530.00 | lbs/yr | 29.9 | ppm Hg | 32.7000 | N/A | N/A | Assumes 100% volatilization. |
| System Description: Other Lab Processes downstream of the Large Drying Ovens | | | | | | | | | |
| | Hg | 58,667.00 | lbs/yr | 0 | ppm Hg | 0.0000 | N/A | N/A | All Hg assumed to be volatilized in the Large Drying Ovens. |
| System Description: Laboratory Small Ore Dryer (1 Unit) | | | | | | | | | |
| | Hg | 6,652.00 | lbs/yr | 100 | ppm Hg | 0.6700 | N/A | N/A | Assumes 100% volatilization. |
| System Description: Other Lab Processes downstream of the Small Drying Oven | | | | | | | | | |
| | Hg | 423.00 | lbs/yr | 0 | ppm Hg | 0.0000 | N/A | N/A | All Hg assumed to be volatilized in the Small Drying Oven. |
| System Description: Laboratory Hot Plates (2 Units) | | | | | | | | | |
| | Hg | 977.80 | lbs/yr | 2.8 | ppm Hg | 0.0027 | N/A | N/A | Concentrations per WPCP Quarterly testing, max value. |
| Facility Total: | | | | | | 293.9245 | | 2.9600 | |

| Source: Newmont Mining Corporation - Gold Quarry: AP1041-0793 | | | | | | | | | |
|--|----|--------------|----------|------------|---------|---------|-------|------|--|
| System Description: ROTP Dry-Grinding Static Separator | | | | | | | | | |
| | Hg | 3,156,763.00 | tpy | 1.8875E-07 | lbs/ton | 0.5958 | 7,519 | 0 | |
| System Description: ROTP Ore Preheaters | | | | | | | | | |
| | Hg | 3,073,402.00 | tpy | 0.006805 | lbs/hr | 51.9222 | 7,630 | 0 | |
| System Description: ROTP Ore Roasters | | | | | | | | | |
| | Hg | 3,073,402.00 | tpy | 0.000433 | lbs/hr | 3.3038 | 7,630 | 0.62 | |
| System Description: ROTP North Calcine Quench | | | | | | | | | |
| | Hg | 1,365,051.00 | tpy | 0.011412 | lbs/hr | 86.9823 | 7,622 | 0 | |
| System Description: South Calcine Quench | | | | | | | | | |
| | Hg | 1,708,351.00 | tpy | 0.007024 | lbs/hr | 53.5931 | 7,630 | 0 | |
| System Description: AARL Carbon Kiln | | | | | | | | | |
| | Hg | 6,121.50 | tpy | 0.011673 | lbs/hr | 71.5438 | 6,129 | 0.01 | |
| System Description: AARL Carbon Kiln Combustion | | | | | | | | | |
| | Hg | 33,693.90 | MMBTU/yr | 0.000216 | lbs/hr | 1.3239 | 6,129 | 0 | |
| System Description: AARL Carbon Stripping (Pregnant) Tanks | | | | | | | | | |
| | Hg | 14,800.30 | tpy | 0.000418 | lbs/hr | 2.7458 | 6,569 | 0 | |
| System Description: Zadra Carbon Kiln | | | | | | | | | |
| | Hg | 7,064.50 | tpy | 0.002487 | lbs/hr | 17.2672 | 6,943 | 0.04 | |
| System Description: Zadra Carbon Kiln Combustion | | | | | | | | | |
| | Hg | 39,396.00 | MMBTU/yr | 0.000047 | lbs/hr | 0.3263 | 6,943 | 0 | |
| System Description: Refinery Retorts | | | | | | | | | |
| | Hg | 80.10 | tpy | 0.002846 | lbs/hr | 9.1983 | 3,232 | 2.05 | |
| System Description: Refinery Induction & Pour Furnaces | | | | | | | | | |
| | Hg | 114.00 | tpy | 0.00922 | lbs/hr | 6.1811 | 670 | 0 | |
| System Description: Refinery Barren Tank & Electrowinning (EW) Cells | | | | | | | | | |
| | Hg | | | 0.00067 | lbs/hr | 5.3801 | 8,030 | 0 | |
| System Description: Integrated Lab Fusing/Cupelling Furnaces #'s 1 - 7 | | | | | | | | | |
| | Hg | 4.80 | tpy | N/A | N/A | 0.1000 | N/A | 0 | Emission rate is based on volume of samples processed, average mercury concentration and sample size assuming 100% volatilization and release at the exhaust stacks. |
| System Description: Integrated Lab Grieve Drying Ovens | | | | | | | | | |
| | Hg | 3,769.90 | tpy | N/A | N/A | 0.1000 | N/A | 0 | Emission rate is based on volume of samples processed, average mercury concentration and sample size assuming 0.1% volatilization at operating temperatures and release at the exhaust stacks. |

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|---|----|------------|-----|-----------|---------|----------|-------|--------|--|
| Source: Newmont Mining Corporation - Gold Quarry: AP1041-0793 (continued) | | | | | | | | | |
| System Description: Manual Lab Furnaces | | | | | | | | | |
| | Hg | 5.88 | tpy | N/A | N/A | 0.1300 | N/A | 0 | Emission rate is based on volume of samples processed, average mercury concentration and sample size assuming 100% volatilization and release at the exhaust stacks. |
| Facility Total: | | | | | | 310.6937 | | 2.7200 | |
| Source: Newmont Mining Corporation - Midas Operations: AP1041-0766.01 | | | | | | | | | |
| System Description: Refinery Furnaces #1 & #2 - S2.035 & S2.036 | | | | | | | | | |
| | Hg | | | 0.018 | lbs/hr | 16.4700 | 915 | 0 | Emissions factor from 2001 stack testing. |
| System Description: Retort A - S2.037 | | | | | | | | | |
| | Hg | | | 0.0000303 | lbs/hr | 0.0939 | 3,100 | 0 | Emissions factor from 2003 stack testing. Throughput not reported, only heat rate. Calculations and test results on file. |
| System Description: Retort B - S2.038 | | | | | | | | | |
| | Hg | | | 0.000245 | lbs/hr | 0.6162 | 2,515 | 0 | Emissions factor from 2003 stack testing. Throughput not reported, only heat rate. Calculations and test results on file. |
| Facility Total: | | | | | | 17.1801 | | 0.0000 | |
| Source: Bald Mountain Mine Properties - Huntington Valley: AP1041-1362 | | | | | | | | | |
| System Description: Carbon Reactivation Kiln | | | | | | | | | |
| | Hg | 532.50 | tpy | 0.179 | lbs/ton | 95.3175 | 4,899 | 0 | Default factor from permit limits. Alternative emissions rate based on 2005 testing = 34.29 lbs/yr (.007 lbs/hr * 4,899). |
| System Description: Electrowinning Cells | | | | | | | | | |
| | Hg | 127,504.00 | tpy | | | | 7,167 | 0 | Emissions factor to be determined during 2007 testing. |
| System Description: Retort Furnace | | | | | | | | | |
| | Hg | 13.82 | tpy | 0.02 | lbs/ton | 0.2764 | 1,637 | 2.94 | Default factor from permit limits. |
| System Description: Bullion Furnace | | | | | | | | | |
| | Hg | 10.87 | tpy | 10 | lbs/ton | 108.6900 | 453 | 0 | Default factor from permit limits. Alternative emissions rate based on 2005 testing = 174.7 lbs/yr (.486 lbs/hr * 359.5). |

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| Source: Bald Mountain Mine Properties - Huntington Valley: AP1041-1362 (continued) | | | | | | | | | | |
| System Description: Fire Assay Lab (4 Drying Ovens) | | | | | | | | | | |
| | Hg | | | | | | | 0 | Assay Lab reported as one De Minimis Unit assuming 100% volatilization of mercury based on the following formula: Samples/Yr * Weight (g)/1 * Avg. Hg Content (ppmw) * 1/(1.00E+06) = Hg Emitted/Yr. Actual values are: 141,154 samples * 30g * 2ppmw / 1.00E-06 = 8.47g/yr / 448 g/lb. = .0186 lbs/yr. | |
| System Description: Fire Assay Lab (2 Fire Assay Furnaces) | | | | | | | | | | |
| | Hg | | | | | 0.0186 | | 0 | | |
| System Description: Fire Assay Lab (6 Hot Plates) | | | | | | | | | | |
| | Hg | | | | | | | 0 | | |
| System Description: Fire Assay Lab (1 Atomic Adsorption Analytical Instrument) | | | | | | | | | | |
| | Hg | | | | | | | 0 | | |
| | | | | | Facility Total: | 204.3025 | | 2.9400 | | |
| Source: Kennecott Rawhide Mining Company - Denton-Rawhide Mine: AP1041-1116.02 | | | | | | | | | | |
| System Description: Carbon Regeneration Kiln | | | | | | | | | | |
| | Hg | 0.00 | tpy | 0.53534 | lbs/ton | 0.0000 | 0 | | Kiln inoperable during 2006. | |
| System Description: Electrowinning Circuit | | | | | | | | | | |
| | Hg | 12,249.80 | tpy | 0.00779 | lbs/ton | 95.4259 | 1,632 | 0.0477 | | |
| System Description: System 1 - Mercury Retort | | | | | | | | | | |
| | Hg | 21.21 | tpy | 0.08 | lbs/ton | 1.6968 | 3,606 | | | |
| System Description: System 2 - Refinery Furnace Baghouse | | | | | | | | | | |
| | Hg | 44.00 | tpy | 0.616 | lbs/hr | 254.4696 | 413 | 0.01442 | | |
| System Description: Fire Assay Lab Furnace Baghouse | | | | | | | | | | |
| | Hg | 0.05 | tpy | 0.01 | lbs/ton | 0.0005 | 416 | <0.00001 | | |
| | | | | | Facility Total: | 351.5928 | | 0.0621 | | |
| Source: Hycroft Resources & Development, Inc. - Crofoot/Lewis Project: AP1041-0334.02 | | | | | | | | | | |
| System Description: Mercury Retort #1 | | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. | |
| System Description: Mercury Retort #2 | | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. | |
| System Description: Mercury Retort #3 | | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. | |
| System Description: Furnace #1 | | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. | |
| System Description: Furnace #2 | | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. | |

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|---|----|-----------|-----|----------|--------|---------|-------|---------|---------------------------------|
| Source: Hycroft Resources & Development, Inc. - Crofoot/Lewis Project: AP1041-0334.02 | | | | | | | | | |
| System Description: Furnace #3 | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. |
| Facility Total: | | | | | | 0.0000 | | 0.0000 | |
| Source: Metallic Ventures, Inc.: AP1041-1202 | | | | | | | | | |
| System Description: Dore Furnace | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. |
| System Description: Carbon Reactivation Kiln | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. |
| Facility Total: | | | | | | 0.0000 | | 0.0000 | |
| Source: Coeur D'Alene Mining Corporation - Coeur Rochester Mine: AP1044-0063.02 | | | | | | | | | |
| System Description: Refinery Furnace | | | | | | | | | |
| | Hg | 250.26 | tpy | 0.0059 | lbs/hr | 2.8792 | 488 | 0 | |
| System Description: Retort | | | | | | | | | |
| | Hg | 250.26 | tpy | 2.85E-10 | lbs/hr | 0.0000 | 6,376 | 16.1 | |
| System Description: Assay Lab (Cumulative total for all units listed below) | | | | | | | | | |
| | Hg | 8.30 | tpy | | | 0.0080 | 9,704 | 0 | |
| System Description: Assay Lab - Grieve Sample Drying Oven (4 Units) | | | | | | | | | |
| | Hg | 7.22 | tpy | | | 0.0000 | 1,726 | 0 | |
| System Description: Assay Lab - Assay Furnaces (4 Units) | | | | | | | | | |
| | Hg | 1.08 | tpy | | | 0.0000 | 484 | 0 | |
| System Description: Assay Lab - Atomic Adsorption Analyzers (2 Units) | | | | | | | | | |
| | Hg | 0.00 | | | | 0.0000 | 3,288 | 0 | |
| System Description: Assay Lab - LECO Furnace (1 Unit) | | | | | | | | | |
| | Hg | 0.00 | | | | 0.0000 | 520 | 0 | |
| System Description: Assay Lab - Wet Lab Hot Plates (2 Units) | | | | | | | | | |
| | Hg | 0.00 | | | | 0.0000 | 3,650 | 0 | |
| System Description: Assay Lab - Metallurgy Lab Hot Plate (1 Units) | | | | | | | | | |
| | Hg | 0.00 | | | | 0.0000 | 36 | 0 | |
| Facility Total: | | | | | | 2.8872 | | 16.1000 | |
| Source: Newmont Mining Corporation - Lone Tree Mine: AP1041-0059 | | | | | | | | | |
| System Description: Autoclave, electrically fired | | | | | | | | | |
| | Hg | 27,592.00 | tpy | 0.00539 | lbs/hr | 35.1590 | 6,523 | 0 | Based on 2006 source test data. |

| Source: Newmont Mining Corporation - Lone Tree Mine: AP1041-0059 (continued) | | | | | | | | | |
|---|----|-----------|---------|----------|--------|----------|-------|--------|--|
| System Description: Carbon Kiln, electric induction | | | | | | | | | |
| | Hg | 611.00 | tpy | 0.205222 | lbs/hr | 572.1589 | 2,788 | 0 | Based on 2006 source test data. |
| System Description: Electrowinning Cells | | | | | | | | | |
| | Hg | 3.00 | tpy | 0.001442 | lbs/hr | 11.2822 | 7,824 | 0 | Based on 2006 source test data. |
| System Description: Pregnant and Barren Solution Tanks | | | | | | | | | |
| | Hg | N/A | N/A | 0.00012 | lbs/hr | 1.0512 | 8,760 | 0 | |
| System Description: Drying Ovens | | | | | | | | | |
| | Hg | 645.00 | tpy | | | 2.4500 | | 0 | Based on a mass balance multiplying pounds of sample processed and the average Hg concentration (1.94 ppm), assuming 100 volatilization. |
| System Description: Lone Tree Mine Laboratory | | | | | | | | | |
| | Hg | | | | | | | 0 | |
| System Description: Lone Tree Mine Laboratory - Fire Assay Furnaces | | | | | | | | | |
| | Hg | | | | | | | 0 | |
| System Description: Lone Tree Mine Laboratory - Cress Furnaces | | | | | | | | | |
| | Hg | | | | | | | 0 | |
| Facility Total: | | | | | | 622.1013 | | 0.0000 | |
| Source: Cortez Gold Mines - Pipeline Mining Operation: AP1041-0619.01 | | | | | | | | | |
| System Description: Refinery Induction Furnaces #1 & 2 | | | | | | | | | |
| | Hg | 51.66 | tpy | 0.11 | lbs/hr | 56.4300 | 513 | 0 | Tier 1 stack test conducted 03/06. |
| System Description: Electric Carbon Reactivation Kiln #1 (S2.006) & #2 (S2.007) | | | | | | | | | |
| | Hg | 4,420.00 | tpy | 0.025 | lbs/hr | 92.4500 | 3,698 | 0.12 | Tier 1 stack test conducted 03/06 with both kilns online. |
| System Description: Electrowinning Cells (Train #1 - 3 cells) | | | | | | | | | |
| | Hg | 50.00 | gal/min | 0.00061 | lbs/hr | 5.3436 | 8,760 | 0 | Tier 1 stack test conducted 04/06. |
| System Description: Electrowinning Cells (Train #2 - 3 cells) | | | | | | | | | |
| | Hg | 50.00 | gal/min | 0.000154 | lbs/hr | 1.3490 | 8,760 | 0 | Tier 1 stack test conducted 04/06. |
| System Description: Assay Laboratory Furnace Baghouse | | | | | | | | | |
| | Hg | 0.01 | tpy | 0.000609 | lbs/hr | 4.8903 | 8,030 | 0 | Tier 2. |
| System Description: Gold Sludge Drying Oven | | | | | | | | | |
| | Hg | 51.66 | tpy | 0.002 | lbs/hr | 3.0000 | 1,500 | 0 | Based on engineering calculations & other design criteria. Tier 2 stack test scheduled for June 2007. |
| System Description: Assay Laboratory, Leco Induction Furnaces | | | | | | | | | |
| | Hg | 40,000.00 | lbs/yr | 1 | ppm Hg | 0.0000 | | 0 | |
| System Description: Assay Laboratory, Graphite Furnace | | | | | | | | | |
| | Hg | 99.00 | lbs/yr | 0.3 | ppm Hg | 0.0000 | | 0 | |

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|---|----|--------------|---------------|----------|--------|----------|-------|-------------|---|
| Source: Cortez Gold Mines - Pipeline Mining Operation: AP1041-0619.01 (continued) | | | | | | | | | |
| System Description: Assay Laboratory, Atomic Absorption Spectrometers | | | | | | | | | |
| | Hg | 4,365.00 | lbs/yr | 0.3 | ppm Hg | 0.0013 | | 0 | |
| System Description: Assay Laboratory, Drying Oven (Walk through Grieve) | | | | | | | | | |
| | Hg | 2,936,557.00 | lbs/yr | 1 | ppm Hg | 2.9366 | | 0 | |
| System Description: Assay Laboratory, Drying Oven (Small Grieve) | | | | | | | | | |
| | Hg | 277,782.00 | lbs/yr | 1 | ppm Hg | 0.2778 | | 0 | |
| System Description: Assay Laboratory, Drying Oven (Back-up Small Grieve) | | | | | | | | | |
| | Hg | 4,762.00 | lbs/yr | 1 | ppm Hg | 0.0048 | | 0 | |
| System Description: Assay Laboratory, Fusing/Cupelling Furnaces (DFC Electric) | | | | | | | | | |
| | Hg | 12,699.00 | lbs/yr | 1 | ppm Hg | 0.0127 | | 0 | |
| System Description: Assay Laboratory, Annealing Furnace | | | | | | | | | |
| | Hg | 159.00 | lbs/yr | 1 | ppm Hg | 0.0002 | | 0 | |
| System Description: Assay Laboratory, Hotplates | | | | | | | | | |
| | Hg | 1,587.00 | lbs/yr | 1 | ppm Hg | 0.0016 | | 0 | |
| System Description: Assay Laboratory, Roasting Oven | | | | | | | | | |
| | Hg | 5.00 | lbs/yr | 1 | ppm Hg | 0.0000 | | 0 | |
| System Description: Met Laboratory, Hot Plate | | | | | | | | | |
| | Hg | 5.00 | lbs/yr | 1 | ppm Hg | 0.0000 | | 0 | |
| System Description: Met Laboratory, Benchtop Autoclaves | | | | | | | | | |
| | Hg | 5.00 | lbs/yr | 1 | ppm Hg | 0.0000 | | 0 | |
| System Description: Met Laboratory Drying Oven | | | | | | | | | |
| | Hg | 7,937.00 | lbs/yr | 1 | ppm Hg | 0.0079 | | 0 | |
| System Description: Strip Circuit Area, AA Machine | | | | | | | | | |
| | Hg | 198.00 | lbs/yr | 0.3 | ppm Hg | 0.0001 | | 0 | |
| Facility Total: | | | | | | 166.7059 | | 0.1200 | |
| Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: AP1041-0106.02 | | | | | | | | | |
| System Description: Mercurt Retorts | | | | | | | | | |
| | Hg | 23,863.00 | lb/yr | 0.000042 | lbs/lb | 1.0022 | 1,030 | 0.000501123 | Retort emissions factor calculated from 1993 stack test results; throughput for retorts and electrowinning circuits are the same. |
| System Description: Assay Lab | | | | | | | | | |
| | Hg | 4,302.00 | sample lbs/yr | 0.000002 | lbs/lb | 0.0086 | | 0.000004302 | Emissions factor from De Minimis Determination Title V Inventory for Lab. Assay lab emissions calculated from Hg concentration in samples & annual throughput assuming all Hg in samples was emitted (volatized). |

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| Source: Florida Canyon Mining, Inc. - Florida Canyon Mine: AP1041-0106.02 (continued) | | | | | | | | | |
| System Description: Summit Valley Electrowinning Cell Model #75EC18 | | | | | | | | | |
| | Hg | 23,863.00 | lbs/yr | 0.0011 | lbs/lb | 26.2493 | | 0.01312465 | Emissions factor from industrial source with similar equipment; throughput for retorts and electrowinning circuits are the same. |
| System Description: Combustion Air International Carbon Kiln Model #WCC250DX-2 | | | | | | | | | |
| | Hg | 2,238.00 | tpy | 0.162 | lbs/ton | 362.5560 | | 0.181278 | Emissions factor from industrial source with similar equipment. |
| System Description: Inductotherm Dore Furnace | | | | | | | | | |
| | Hg | 22,632.00 | lbs/yr | 0.00225 | lbs/lb | 50.9220 | 272 | 0.025461 | Emissions factor comes from Title V Inventory. |
| System Description: Pregnant Tank | | | | | | | | | |
| | Hg | 23,863.00 | lbs/yr | 0.0011 | lbs/hr | | | 0.002996 | Emissions factor from industrial source with similar equipment, however, hours not reported. |
| System Description: Barren Tank | | | | | | | | | |
| | Hg | 23,863.00 | lbs/yr | 0.0011 | lbs/hr | | | 0.002996 | Emissions factor from industrial source with similar equipment, however, hours not reported. |
| Facility Total: | | | | | | 440.7382 | | 0.2264 | |
| Source: Round Mountain Gold Corporation - Smoky Valley Common Operation: AP1041-0444.01 | | | | | | | | | |
| System Description: Carbon Regeneration Kiln: System 25 - S2.121 | | | | | | | | | |
| | Hg | 3,618.00 | tpy | 0.0091 | lbs/ton | 32.9238 | 8,675 | | Based on Hg mass balance. |
| System Description: Electric Induction Furnace: System 24 - S2.130 | | | | | | | | | |
| | Hg | 44.30 | tpy | 0.23 | lbs/ton | 10.1890 | 767 | 0.0085 | Emissions estimate based on Hg mass balance. |
| System Description: Refinery Electrowinning Vent - NP1.005 | | | | | | | | | |
| | Hg | | | 0.00159 | lbs/hr | 13.9284 | 8,760 | | Based on limited vent sampling data. |
| System Description: Assay Lab (4 Drying Ovens) | | | | | | | | | |
| | Hg | | | | | | | | Mass balance approach, emissions are for all twelve Assay Lab units. |
| System Description: Assay Lab (8 Assay Furnaces) | | | | | | | | | |
| | Hg | 365,000.00 | lbs/yr | 3.8E-08 | lbs/lb | 0.0139 | 8,760 | | |
| System Description: High Grade Area (1 Drying Oven) | | | | | | | | | |
| | Hg | 482.81 | lbs/yr | 0.000002 | lbs/lb | 0.0010 | 8,760 | | Mass balance approach, emissions are for all three High Grade Area units. |
| System Description: High Grade Area (2 Assay Fusion Furnaces) | | | | | | | | | |
| | Hg | 63,875.00 | lbs/yr | 3.8E-08 | lbs/lb | 0.0024 | 8,760 | | |
| Facility Total: | | | | | | 57.0585 | | 0.0085 | |

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|---|----|--------|-----|----------|-----------------|----------|-------|--------|---|
| Source: Homestake Mining Company - Ruby Hill Project: AP1041-0713.01 | | | | | | | | | |
| System Description: Electric Carbon Kiln (S2.019) | | | | | | | | | |
| | Hg | 11.80 | tpy | 0.03 | lbs/hr | 9.3900 | 313 | 0 | See attached calculations. |
| System Description: Electric Mercury Retort (S2.022) | | | | | | | | | |
| | Hg | 0.46 | tpy | 0.001 | lbs/ton | 0.0005 | 216 | 0.5 | Default emissions factor from permit. |
| System Description: Electric Refinery Induction Furnace (S2.013) | | | | | | | | | |
| | Hg | 0.07 | tpy | 5 | lbs/ton | 0.3600 | 6 | 0 | Default emissions factor from permit. |
| System Description: Electrowinning Cells 1 & 2 (IA1.005) | | | | | | | | | |
| | Hg | | | 0.0026 | lbs/hr | 19.0320 | 7,320 | 0 | See attached calculations. |
| System Description: Assay Lab | | | | | | | | | |
| | Hg | | | | | | | | System did not operate in 2006. |
| | | | | | Facility Total: | 28.7825 | | 0.5000 | |
| Source: Glamis Marigold Mine - Marigold Mine: AP1041-0158.02 | | | | | | | | | |
| System Description: Carbon Kiln (existing drum without controls from January 1, 2006 - October 17, 2006) | | | | | | | | | |
| | Hg | 743.46 | tpy | 0.162 | lbs/hr | 893.6244 | 5,516 | 0 | Emissions factor from January 17, 2006 source test. |
| System Description: Carbon Kiln (existing drum with controls from October 18, 2006 - December 31, 2006) | | | | | | | | | |
| | Hg | 132.10 | tpy | 0.00016 | lbs/hr | 0.2011 | 1,257 | 0 | Emissions factor from January 17, 2006 source test multiplied by 99.9% control efficiency. |
| System Description: Carbon Kiln (under construction) | | | | | | | | | |
| | Hg | | | | | | | 0 | System did not operate in 2006. |
| System Description: Electrowinning Circuit (3 cells without controls from January 1, 2006 - October 17, 2006) | | | | | | | | | |
| | Hg | | | 0.0011 | lbs/hr | 7.2072 | 6,552 | 0 | Emissions factor from January 18, 2006 source test. |
| System Description: Electrowinning Circuit (3 cells with controls from October 18, 2006 - December 31, 2006) | | | | | | | | | |
| | Hg | N/A | N/A | 0.000001 | lbs/hr | 0.0022 | 2,208 | 0 | Emissions factor from January 18, 2006 source test. multiplied by 99.9% control efficiency. |
| System Description: Retort (current configuration) | | | | | | | | | |
| | Hg | 7.71 | tpy | 0.000834 | lbs/hr | 0.7564 | 907 | 0.1165 | Emissions factor from December 19, 2005 source test. |
| | | | | | | | | 0.051 | 0.051 tpy misc. clean-up. |
| System Description: Retort (future configuration) | | | | | | | | | |
| | Hg | | | | | | | | System not modified as of December 31, 2006. |
| System Description: Smelting Furnace (current configuration) | | | | | | | | | |
| | Hg | 5.98 | tpy | 0.0089 | lbs/hr | 1.8939 | 213 | 0 | Emissions factor from September 21, 2005 source test. |
| System Description: Smelting Furnace (future configuration) | | | | | | | | | |
| | Hg | | | | | | | | System not modified as of December 31, 2006. |

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|---|----|-----------|----------|----------|--------|----------|-------|--------|--|--|
| Source: Glamis Marigold Mine - Marigold Mine: AP1041-0158.02 (continued) | | | | | | | | | | |
| System Description: Pregnant Tank | | | | | | | | | | |
| | Hg | | | 0.0011 | lbs/hr | 2.1858 | 1,987 | 0 | Common stack w/kiln - no data for barren tank alone. | |
| System Description: Barren Tank | | | | | | | | | | |
| | Hg | | | 0.0011 | lbs/hr | 2.1858 | 1,987 | 0 | Common stack w/kiln - no data for barren tank alone. | |
| System Description: Assay Lab (2 Drying Ovens) | | | | | | | | | | |
| | Hg | | | | | 0.0022 | | 0 | Mass balance approach, 100% volatilization assumed for total of 83,051 samples processed during 2006. The volatilization rates used were: Drying Ovens - 5%, AA Instrument - 100%, Assay Furnaces - 99%, Cupellation Furnace - 33% of remaining 1% from assay furn., Hot Plates - 33% of remaining 1% from assay furnaces, Annealing Oven - 33% of remaining 1% from assay furnaces. See hard copy submittal for detailed discussion of emission calculations. | |
| System Description: Assay Lab (1 Atomic Adsorption Analytical Instrument) | | | | | | | | | | |
| | Hg | | | | | 0.0005 | | 0 | | |
| System Description: Assay Lab (2 Assay Furnaces) | | | | | | | | | | |
| | Hg | | | | | 0.0015 | | 0 | | |
| System Description: Assay Lab (Cupellation Furnace) | | | | | | | | | | |
| | Hg | | | | | 0.0000 | | 0 | | |
| System Description: Assay Lab (2 Hot Plates) | | | | | | | | | | |
| | Hg | | | | | 0.0000 | | 0 | | |
| System Description: Assay Lab (1 Annealing Oven) | | | | | | | | | | |
| | Hg | | | | | 0.0000 | | 0 | | |
| Facility Total: | | | | | | 908.0610 | | 0.1675 | | |
| Source: Borealis Mining Company: AP1041-2125 | | | | | | | | | | |
| System Description: No Submittal | | | | | | | | | | |
| | Hg | | | | | | | | Mine not yet operational, project on indefinite hold. | |
| Facility Total: | | | | | | 0.0000 | | 0.0000 | | |
| Source: Placer Turquoise Ridge, Inc. - Getchell Mine: AP1041-0292.01 | | | | | | | | | | |
| System Description: Lab Fire Assay/Cupellation Furnaces (4 Units - System 5: S2.008 & S2.009) | | | | | | | | | | |
| | Hg | | | 0.000229 | lbs/hr | 0.3506 | 1,531 | | Stack test results on file, test performed 09/12/06. | |
| System Description: Leco Induction Furnaces (2 Units) | | | | | | | | | | |
| | Hg | 2,726.00 | assays | | | 0.0000 | | | | |
| System Description: Graphite Furnace (1 Unit) | | | | | | | | | | |
| | Hg | 6,830.00 | analyses | | | 0.0000 | | | | |
| System Description: Atomic Absorption Spectrometers (2 Units) | | | | | | | | | | |
| | Hg | 6,830.00 | analyses | | | 0.0000 | | | | |
| System Description: Drying Room (1 Unit) | | | | | | | | | | |
| | Hg | 16,293.00 | samples | | | 8.0461 | | | | |
| System Description: Drying Ovens (3 Units - Carl Mauer) | | | | | | | | | | |
| | Hg | 5,431.00 | samples | | | 2.2682 | | | | |

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|--|----|-----------|---------|------------|--------|---------|-------|--------|--|
| Source: Placer Turquoise Ridge, Inc. - Getchell Mine: AP1041-0292.01 (continued) | | | | | | | | | |
| System Description: Annealing Furnace (1 Unit) | | | | | | | | | |
| | Hg | 37,884.00 | samples | | | 0.0009 | | | |
| System Description: Hotplates (3 Units) | | | | | | | | | |
| | Hg | 37,884.00 | samples | | | 0.0094 | | | |
| System Description: Roasting Oven (1 Unit) | | | | | | | | | |
| | Hg | 2,726.00 | samples | | | 0.0000 | | | |
| System Description: Digestion Blocks (1 Unit) | | | | | | | | | |
| | Hg | 0.00 | samples | | | 0.0000 | | | |
| System Description: Benchtop Autoclave (1 Unit) | | | | | | | | | |
| | Hg | 0.00 | tests | | | 0.0000 | | | |
| System Description: Drying Ovens (1 Unit) | | | | | | | | | |
| | Hg | 0.00 | samples | | | 0.0000 | | | |
| Facility Total: | | | | | | 10.6752 | | 0.0000 | |
| Source: Battle Mountain Gold Company - Reona & Phoenix Projects: AP1041-0220.02 | | | | | | | | | |
| System Description: Electric Carbon Kiln (S2.002) | | | | | | | | | |
| | Hg | 3,727.00 | tpy | 0.000366 | lbs/hr | 2.2736 | 6,212 | 0 | |
| System Description: Electrowinning Cells | | | | | | | | | |
| | Hg | | | 0.00000466 | lbs/hr | 0.0308 | 6,600 | 0 | |
| System Description: Pregnant & Barren Solution Vent System | | | | | | | | | |
| | Hg | | | 2.65E-07 | lbs/hr | 0.0017 | 6,600 | 0 | |
| System Description: Retort (S2.014) | | | | | | | | | |
| | Hg | 2.80 | tpy | 0 | | 0.0000 | 112 | 0 | |
| Facility Total: | | | | | | 2.3061 | | 0.0000 | |
| Source: Golden Phoenix Minerals, Inc.: AP1041-0694.01 | | | | | | | | | |
| System Description: Dore Furnace | | | | | | | | | |
| | Hg | | | | | | | | Facility in temporary closure, system did not operate in 2006. |
| System Description: WET Scrubber | | | | | | | | | |
| | Hg | | | | | | | | Facility in temporary closure, system did not operate in 2006. |
| System Description: Electrowinning Cell | | | | | | | | | |
| | Hg | | | | | | | | Facility in temporary closure, system did not operate in 2006. |
| System Description: Electrowinning Cell | | | | | | | | | |
| | Hg | | | | | | | | Facility in temporary closure, system did not operate in 2006. |

| Source: Golden Phoenix Minerals, Inc.: AP1041-0694.01 (continued) | | | | | | | | | |
|---|----|--------------|--------|------------|-----------------|----------|--------|--------|--|
| System Description: Sludge Dryer | | | | | | | | | |
| | Hg | | | | | | | | Facility in temporary closure, system did not operate in 2006. |
| | | | | | Facility Total: | 0.0000 | | 0.0000 | |
| Source: Barrick Goldstrike Mines, Inc.: AP1041-0739.01 | | | | | | | | | |
| System Description: Roasters #1 & #2: System 18 - S2.209 | | | | | | | | | |
| | Hg | 5,858,384.00 | tpy | 0.00003996 | lbs/ton | 234.1010 | 8,573 | 98.55 | Facility-wide Elemental and Calomel. |
| System Description: Carbon Kiln #2 Drum: System 61 - S2.004.1 | | | | | | | | | |
| | Hg | 10,153.00 | tpy | 0.024452 | lbs/ton | 248.2612 | 7,361 | 0 | See Table C for emissions factor rationale. |
| System Description: Autoclave #1: System 66 - S2.015 | | | | | | | | | |
| | Hg | 833,725.00 | tpy | 0.0000128 | lbs/ton | 10.6717 | 8,149 | 0 | See Table C for emissions factor rationale. |
| System Description: Autoclaves #2 & #3: System 66 - S2.016 & S2.017 | | | | | | | | | |
| | Hg | 2,189,423.00 | tpy | 0.0000128 | lbs/ton | 28.0246 | 16,267 | 0 | See Table C for emissions factor rationale. |
| System Description: Autoclave #4: System 66 - S2.018 | | | | | | | | | |
| | Hg | 1,134,601.00 | tpy | 0.0000128 | lbs/ton | 14.5229 | 8,025 | 0 | See Table C for emissions factor rationale. |
| System Description: Autoclaves #5 & #6: System 66 - S2.019 & S2.020 | | | | | | | | | |
| | Hg | 2,404,369.00 | tpy | 0.0000128 | lbs/ton | 30.7759 | 16,796 | 0 | See Table C for emissions factor rationale. |
| System Description: Mercury Retorts #1 - #3: System 67 - S2.009 - S2.011 | | | | | | | | | |
| | Hg | | | 0.000423 | lbs/hr | 3.3713 | 7,970 | 0 | See Table C for emissions factor rationale. |
| System Description: West & East Melting Furnaces & Electrowinning Cells Combined (vented through a common carbon filter): System 68 - S2.013 & S2.014 | | | | | | | | | |
| | Hg | 100.80 | tpy | 0.0916 | lbs/ton | 9.2333 | 1,019 | 0 | See Table C for emissions factor rationale. |
| System Description: Electrowinning Cells only: System 68 | | | | | | | | | |
| | Hg | | | 0.00282 | lbs/hr | 20.8144 | 7,381 | 0 | See Table C for emissions factor rationale. |
| System Description: Mill #1 Air Pre-Heater and Dry Grinding Process: System 15 - S2.204 & S2.205.01 - S2.205.12 | | | | | | | | | |
| | Hg | 2,732,156.00 | tpy | TBD | TBD | TBD | 7,969 | 0 | Emissions to be determined based on source testing scheduled for July, 2007. |
| System Description: Mill #2 Air Pre-Heater and Dry Grinding Process: System 16 - S2.206 & S2.207.01 - S2.207.12 | | | | | | | | | |
| | Hg | 2,648,982.00 | tpy | TBD | TBD | TBD | 7,907 | 0 | |
| System Description: Assay Laboratories Furnaces: System 70 - S2.051 | | | | | | | | | |
| | Hg | 45.35 | tpy | 0.36 | lbs/ton | 16.3260 | 8,760 | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Leco Induction Furnaces | | | | | | | | | |
| | Hg | 11.00 | lbs/yr | 25.79 | ppm Hg | 0.0003 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Graphite Furnace | | | | | | | | | |
| | Hg | 6.60 | lbs/yr | 25.79 | ppm Hg | 0.0002 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Atomic Absorption Spectrometers | | | | | | | | | |
| | Hg | 6,613.90 | lbs.yr | 25.79 | ppm Hg | 0.2000 | | 0 | See attached calculations for Assay Lab equipment. |

| Source: Barrick Goldstrike Mines, Inc.: AP1041-0739.01 (continued) | | | | | | | | | |
|--|----|----------|--------|----------|------------|--------|--|---|--|
| System Description: Assay Laboratory: Mercury Analyzer | | | | | | | | | |
| | Hg | 1.50 | lbs/yr | 25.79 | ppm Hg | 0.0000 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Hot Plates | | | | | | | | | |
| | Hg | 1.30 | lbs/yr | 25.79 | ppm Hg | 0.0000 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Digestion Blocks | | | | | | | | | |
| | Hg | 80.50 | lbs/yr | 25.79 | ppm Hg | 0.0020 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Digestion Blocks | | | | | | | | | |
| | Hg | 5.50 | lbs/yr | 25.79 | ppm Hg | 0.0001 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay Laboratory: Microwave | | | | | | | | | |
| | Hg | 87.10 | lbs/yr | 25.79 | ppm Hg | 0.0020 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Met Laboratory: Laboratory Tube (bench-top) Roasters | | | | | | | | | |
| | Hg | 850.40 | lbs/yr | 25.79 | ppm Hg | 0.0200 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Met Laboratory: Hot Plate | | | | | | | | | |
| | Hg | 1.30 | lbs/yr | 25.79 | ppm Hg | 0.0000 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Met Laboratory: Inductively Coupled Plasma (ICP) | | | | | | | | | |
| | Hg | 160.90 | lbs/yr | 25.79 | ppm Hg | 0.0040 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Met Laboratory: Bench Top Autoclaves | | | | | | | | | |
| | Hg | 687.80 | lbs/yr | 25.79 | ppm Hg | 0.0200 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Met Laboratory: Semi-Continuous Autoclave | | | | | | | | | |
| | Hg | 4,960.40 | lbs/yr | 25.79 | ppm Hg | 0.1000 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Assay & Met Laboratory: Drying Ovens | | | | | | | | | |
| | Hg | 199.80 | tpy | 0.000119 | lbs Hg/ton | 0.0240 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Mill Met Laboratory: Drying Oven | | | | | | | | | |
| | Hg | 482.80 | lbs/yr | 25.79 | ppm Hg | 0.0100 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Mill Met Laboratory: Lecos | | | | | | | | | |
| | Hg | 17.70 | lbs/yr | 25.79 | ppm Hg | 0.0005 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Strip Circuit Area: AA Machine | | | | | | | | | |
| | Hg | 5,000.00 | lbs/yr | 25.79 | ppm Hg | 0.1300 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Autoclave Met Laboratory: Lecos | | | | | | | | | |
| | Hg | 17.70 | lbs/yr | 25.79 | ppm Hg | 0.0005 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Autoclave Met Laboratory: Drying Oven | | | | | | | | | |
| | Hg | 482.80 | lbs/yr | 25.79 | ppm Hg | 0.0100 | | 0 | See attached calculations for Assay Lab equipment. |
| System Description: Autoclave Met Laboratory: Hot Plate | | | | | | | | | |
| | Hg | 357.30 | lbs/yr | 25.79 | ppm Hg | 0.0090 | | 0 | See attached calculations for Assay Lab equipment. |

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|--|----|----------|--------|-------|--------|-----------------------|-------|----------------------|---|
| Source: Barrick Goldstrick Mines, Inc.: AP1041-0739.01 (continued) | | | | | | | | | |
| System Description: Roaster Pumphouse Laboratory: AA Machine | | | | | | | | | |
| | Hg | 5,000.00 | lbs/yr | 25.79 | ppm Hg | 0.1300 | | 0 | See attached calculations for Assay Lab equipment. |
| Facility Total: | | | | | | 616.7650 | | 98.5500 | |
| Source: The Plum Mining Company, LLC - Billy The Kid Mine: AP1041-0936 | | | | | | | | | |
| System Description: No Submittal | | | | | | | | | |
| | Hg | | | | | | | | |
| Facility Total: | | | | | | 0.0000 | | 0.0000 | |
| Source: Royal Standard Minerals, Inc. - Manhattan Mine: AP1041-1457 | | | | | | | | | |
| System Description: No Submittal | | | | | | | | | |
| | Hg | | | | | | | | Mine not yet operational, project on indefinite hold. |
| Facility Total: | | | | | | 0.0000 | | 0.0000 | |
| | | | | | | Cumulative lbs/yr. | Total | Cum. Co-Prod. tpy | |
| | | | | | | 4,468.15 | | 133.26 | |