

**This worksheet compares the 2013 Rev 1 estimate to the MMD-required 2020 updated cost estimate. It is for RGR internal use only. Expansion of the waste pile to 19.3 acres is expected but not yet approved. However, costs related to that expansion are included in this estimate.**

**COST ESTIMATE - MT TAYLOR MINE CLOSEOUT/ DP-61 CLOSURE**

**Rev. 8.2 3/25/2021**

| Item #       | Description  | 2013 Rev. 1 Estimate       |              |             |           |                  | 2020 Rev. 8.2 Estimate     |             |             |           |            | Section Rollups-2020 | COST DIFFERENCE                                 | Cost Reference  | Quantity Reference  |                                     |
|--------------|--|----------------------------|--------------|-------------|-----------|------------------|----------------------------|-------------|-------------|-----------|------------|----------------------|---|---|---|-------------------------------------|
|              |  | Material(s)                | Units        | \$/Unit     | Quantity  | Cost, \$         | Material(s)                | Units       | \$/Unit     | Quantity  | Cost, \$   |                      |   |   |   |                                     |
| <b>1</b>     | <b>Direct Reclamation Costs</b>  |                            |              |             |           |                  |                            |             |             |           |            |                      |   | RS Means references include assumptions of normal productivity, equipment and manpower                            |   |                                     |
| <b>1.1</b>   | <b>Shaft Closures</b>  |                            |              |             |           |                  |                            |             |             |           |            | \$ 599,034           |   |   |   |                                     |
| <b>1.1.1</b> | <b>Production/ Haulage (24 ft) Shaft Fittings and Equipment</b>                            |                            |              |             |           |                  |                            |             |             |           |            | \$ 26,070            |   |   |   |                                     |
|              | crane  | day                        | \$ 1,245     | 10          | \$ 12,450 | crane            | day                        | \$ 1,245    | 10          | \$ 12,450 |            | \$ -                 | RSM 01 54 19.50 0200                            | 25-ton crane with crew  |   |                                     |
|              | demo crew  | day                        | \$ 1,156     | 10          | \$ 11,560 | demo crew        | day                        | \$ 1,362    | 10          | \$ 13,620 |            | \$ 2,060             | RSM Crew B-1A                                   |   |   |                                     |
| <b>1.1.2</b> | <b>24 ft Shaft Headframe</b>   |                            |              |             |           |                  |                            |             |             |           |            | \$ 54,995            |   |   |   |                                     |
|              | 24 ft Production Shaft Headframe - drop using explosives, dozers - cranes, torches, shears | structural steel           | leg          | \$ 1,785    | 8         | \$ 14,280        | structural steel           | leg         | \$ 1,910    | 8         | \$ 15,280  |                      | \$ 1,000  | RSM 31 23 16.30; RSM 02 41 13.78 0800; WYDEQ, App. E  | Assume each leg of headframe is equivalent to one radio tower 120 ft high   |                                     |
|              | Cut and remove , 20 ft max lengths   | cut structural steel       | hour         | \$ 220.70   | 53        | \$ 11,697        | cut structural steel       | hour        | \$ 263.75   | 53        | \$ 13,979  |                      | \$ 2,282  | Piñon Ridge Mill Decommissioning and Reclamation Cost Estimate, Attachment G, item 8a2                            | http://www.structural-drafting-net-expert.com/steel-sections-i-beam-w-shape.html; estimated 10 cuts per hour by CAT 365 with hydraulic shear                    |                                     |
|              | Cut vent pipe, decking, stairs, railing, cable, sheet metal, etc. to size                  | fabricated metal materials | SF           | \$ 0.29     | 3750      | \$ 1,088         | fabricated metal materials | SF          | \$ 0.31     | 3750      | \$ 1,163   |                      | \$ 75   | RSM 02 41 16.13 0500  | Wheel skidder with grapple, same production as CAT 365  |                                     |
|              | Load, haul, dump   | steel, scrap               | hour         | \$ 59       | 40        | \$ 2,360         | steel, scrap               | hour        | \$ 132      | 40        | \$ 5,280   |                      | \$ 2,920  | Piñon Ridge Mill Decommissioning and Reclamation Cost Estimate, Attachment G: RSM 01 54 33 20 4896; 01 54 33 4760 | Wheel skidder with grapple, same production as CAT 365 haul with loader at \$132/hr   |                                     |
|              | Remove concrete from slab outside of collar, ore loading area                              | concrete                   | CY           | \$ 264.06   | 226.90    | \$ 59,916        | concrete                   | CY          | \$ 49.14    | 226.90    | \$ 11,150  |                      | \$ (48,766)                                     | RSM 02 41 16.17 0420  | AutoCad base dimensions; concrete re-cycled for erosion protection per 1.4.4  |                                     |
|              | Remove headframe foundations   | not included               |              |             |           |                  | concrete                   | CF          | \$ 37.70    | 216       | \$ 8,143   |                      | \$ 8,143  | RSM 02 41 19.16 1050  | Assume six foundations, 3' x 3' x 4', to grade. Depth of the foundations to be removed changed from 10 ft to 4 ft; concrete removed to just below ground level. |                                     |
| <b>1.1.3</b> | <b>24 ft Shaft and Vent Closure</b>  | <b>Plug and Backfill</b>   |              |             |           |                  |                            |             |             |           |            | \$ 316,992           |   |   |   |                                     |
|              | Backfill Slurry batch plant  |                            | mo           | \$ 4,600.00 | 3         | \$ 13,800        |                            | mo          | \$ 4,875.00 | 3         | \$ 14,625  |                      | \$ 825  | RSM 01 54 33 50 0300  |   |                                     |
|              | Set steel support  | crane                      | day          | \$ 1,245.00 | 5         | \$ 6,225         | crane                      | day         | \$ 1,245.00 | 5         | \$ 6,225   |                      | \$ -  | RSM 01 54 19.50 0200  | 12-ton crane with crew  |                                     |
|              | crew   | day                        | \$ 1,434.00  | 5           | \$ 7,170  | crew             | day                        | \$ 1,658.00 | 5           | \$ 8,290  |            | \$ 1,120             | RSM B-2 crew                                    |   |   |                                     |
|              | Cast Plug  | concrete                   | CY           | \$ 94.50    | 215       | \$ 20,318        | concrete                   | CY          | \$ 150.00   | 215       | \$ 32,250  |                      | \$ 11,933                                       | RSM 03 31 05.35 4350/ C&E Redi Mix delivered  | 1000 psi flowable; includes vent raise and tunnel to bulkhead   |                                     |
|              | placement  | CY                         | \$ 13.27     | 215         | \$ 2,853  | placement        | CY                         | \$ 6.00     | 215         | \$ 1,290  |            | \$ (1,563)           | RSM 03 31 05.70 3000/ RSM 2019 03 31 13.70 2900 |   |   |                                     |
|              | crane  | day                        | \$ 1,245     | 5           | \$ 6,225  | crane            | day                        | \$ 1,171    | 5           | \$ 5,855  |            | \$ (370)             | RSM 01 54 19.50 0100                            | 12-ton crane with crew  |   |                                     |
|              | Vent structure   | steel                      | not included |             |           |                  |                            | steel       | hour        | \$ 59.72  | 10         | \$ 597               |   | \$ 597  | RSM 01 54 33 20 0300, 0345  | 2 CY Excavator with hydraulic shear |
|              | concrete   | not included               |              |             |           |                  | concrete                   | CF          | 1.00        | 3030      | \$ 3,018   |                      | \$ 3,018  | RSM 02 41 16.17 0440, RSM 02 41 19.16 1400  |   |                                     |
|              | Backfill (Shaft above plug, tunnel and vent raise)   | mix                        | CY           | \$ 81.50    | 2847      | \$ 232,031       | mix - flowable fill        | CY          | \$ 80.00    | 2847      | \$ 227,760 |                      | \$ (4,271)                                      | RSM 03 31 13.35 4200/ mix on site   | Slurry of soil/cement/water. Includes vent raise and shaft tunnel to bulkhead at utility tunnel   |                                     |
|              | pumped placement   | CY                         | \$ 5.29      | 2847        | \$ 15,061 | pumped placement | CY                         | \$ 6.00     | 2847        | \$ 17,082 |            | \$ 2,021             | RSM 2019 03 31 13.70 2900                       |   |   |                                     |
| <b>1.1.4</b> | <b>Manway/ Ventilation (14 ft) Shaft Fittings and Equipment</b>                            |                            |              |             |           |                  |                            |             |             |           |            | \$ 13,035            |   |   |   |                                     |
|              | crane  | day                        | \$ 1,245     | 5           | \$ 6,225  | crane            | day                        | \$ 1,245    | 5           | \$ 6,225  |            | \$ -                 | RSM 01 54 19.50 0200                            | 12-ton crane with crew  |   |                                     |
|              | crew   | day                        | \$ 1,156     | 5           | \$ 5,780  | crew             | day                        | \$ 1,362    | 5           | \$ 6,810  |            | \$ 1,030             | RSM Crew B-1A                                   |   |   |                                     |

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**COST ESTIMATE - MT TAYLOR MINE CLOSEOUT/ DP-61 CLOSURE**

**Rev. 8.2 3/25/2021**

|   |                                 |      |             |       |                     |   |          |           |          | \$         |                  |  |   |  |
|---|---------------------------------|------|-------------|-------|---------------------|---|----------|-----------|----------|------------|------------------|--|---|--|
| <b>1.1.5 14 ft Shaft Headframe</b>  |                                 |      |             |       |                     |   |          |           |          | \$         | <b>29,765</b>    |  |   |  |
| 14 ft Vent/ Manway Shaft Headframe - drop using cranes, torches, shears   | structural steel                | leg  | \$ 1,590    | 6     | \$ 9,540            | structural steel  | leg      | \$ 1,910  | 6        | \$ 11,460  |                  | \$ 1,920   | RSM 31 23 16.30; RSM 02 41 13.78 0700; WYDEQ, App. E  | Assume each leg of headframe is equivalent to one radio tower 60 ft high   |
| Cut and remove to shaft, 10 ft max lengths                                | structural steel                | hour | \$ 220.70   | 29    | \$ 6,400            | structural steel  | hour     | \$ 263.75 | 29       | \$ 7,649   |                  | \$ 1,249   | Piñon Ridge Mill Decommissioning and Reclamation Cost Estimate, Attachment G, item 8a2  | <a href="http://www.structural-drafting-net-expert.com/steel-sections-i-beam-w-shape.html">http://www.structural-drafting-net-expert.com/steel-sections-i-beam-w-shape.html</a> ; estimated 10 cuts per hour by CAT 365 with hydraulic shear |
| Cut vent pipe, decking, stairs, railing, cable, sheet metal, etc. to size | fabricated metal materials      | SF   | \$ 0.29     | 1215  | \$ 352              | fabricated metal materials  | SF       | \$ 0.31   | 1215     | \$ 377     |                  | \$ 24  | RSM 02 41 16.13 0500  | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support. Includes heater buildings.   |
| Load, haul, dump  | steel, scrap                    | hour | \$ 59       | 24    | \$ 1,416            | steel, scrap  | hour     | \$ 132    | 24       | \$ 3,168   |                  | \$ 1,752   | Piñon Ridge Mill Decommissioning and Reclamation Cost Estimate, Attachment G: RSM 01 54 33 20 4896  | Wheel skidder with grapple, same production as CAT 365 haul with loader at \$132/hr  |
| Remove concrete slab outside of collar                                    | concrete                        | CY   | \$ 264.06   | 29.64 | \$ 7,827            | concrete  | CY       | \$ 49.14  | 29.64    | \$ 1,456   |                  | \$ (6,370)   | RSM 02 41 16.17 0420  | AutoCad base dimensions; concrete re-cycled for erosion protection per 1.4.4   |
| Remove headframe foundations  | not included                    |      |             |       | Concrete            | CF  | \$ 37.70 | 150       | \$ 5,655 |            | \$ 5,655         | RSM 02 41 19.16 1050   | Assume six foundations, 3' x 3' x 4'  |  |
| <b>1.1.6 14 ft Shaft Closure</b>  |                                 |      |             |       |                     |   |          |           |          | \$         | <b>158,177</b>   |  |   |  |
| <b>Plug and Backfill</b>  |                                 |      |             |       |                     |   |          |           |          |            |                  |  |   |  |
| Backfill Slurry batch plant   | cost in 1.1.3 above             |      |             |       | cost in 1.1.3 above |   |          |           |          |            |                  |  |   |  |
| Set steel support   | crane                           | day  | \$ 1,245.00 | 4     | \$ 4,980            | crane   | day      | \$ 1,245  | 4        | \$ 4,980   |                  | \$ -   | RSM 01 54 19.50 0100  | 12-ton crane with crew   |
|   | crew                            | day  | \$ 1,434.00 | 4     | \$ 5,736            | crew  | day      | \$ 1,658  | 4        | \$ 6,632   |                  | \$ 896   | RSM B-2 crew  |  |
| Cast Plug   | concrete                        | CY   | \$ 94.50    | 153   | \$ 14,459           | concrete  | CY       | \$ 150    | 153      | \$ 22,950  |                  | \$ 8,492   | RSM 03 31 05.35 4350/ C&E Redi Mix delivered  | 1000 psi flowable  |
|   | placement                       | CY   | \$ 13.27    | 153   | \$ 2,030            | placement   | CY       | \$ 6.00   | 153      | \$ 918     |                  | \$ (1,112)   | RSM 03 31 05.70 3000/ RSM 2019 03 31 13.70 2900   |  |
|   | crane                           | day  | \$ 1,245.00 | 3     | \$ 3,735            | crane   | day      | \$ 1,171  | 3        | \$ 3,513   |                  | \$ (222)   | RSM 01 54 19.50 0100  | 12-ton crane with crew   |
| Backfill (Shaft above plug, vent raise and tunnel)                        | mix                             | CY   | \$ 81.50    | 764   | \$ 62,266           | mix   | CY       | \$ 150.00 | 764      | \$ 114,600 |                  | \$ 52,334  | RSM 03 31 05.35 4100/ C&E Redi-Mix delivered  | Slurry of ore/cement/water. Includes vent raise and shaft tunnel to bulkhead at utility tunnel   |
|   | pumped placement                | CY   | \$ 5.29     | 764   | \$ 4,042            | pumped placement  | CY       | \$ 6.00   | 764      | \$ 4,584   |                  | \$ 542   | RSM 2019 03 31 13.70 2900   |  |
| <b>1.1.7 Access/ Utility Tunnels Backfill</b>                             |                                 |      |             |       |                     |   |          |           |          | \$         | <b>-</b>         |  |   |  |
|   | mix                             | CY   | \$ 81.50    | 3480  | \$ 283,620          | to be retained for PMLU   |          |           |          |            | \$ (283,620)     | RSM 03 31 13.35 4200; 0305 13.30; 03 05 13.20 6000; NRMCA Guide Specification for Controlled Low Strength Materials (CLSM) | Slurry of ore/cement/water. Includes all tunnels except shaft tunnels   |  |
|   | pumped placement                | CY   | \$ 5.29     | 3480  | \$ 18,409           |   |          |           |          |            | \$ (18,409)      | RSM 03 31 13.70 2900   | direct placement by chute   |  |
| <b>1.2 Well and Conduit Plugging</b>                                      |                                 |      |             |       |                     |   |          |           |          | \$         | <b>811,305</b>   |  |   |  |
| <b>1.2.1 Mine Conduit</b>   |                                 |      |             |       |                     |   |          |           |          | \$         | <b>52,441</b>    |  |   |  |
| Conduits (2)  | 4 ;1 cement bentonite grout mix | LF   | \$ 6.60     | 6400  | \$ 42,226           | 4 ;1 cement bentonite grout mix   | LF       | \$ 8.19   | 6400     | \$ 52,441  |                  | \$ 10,216  | WYDEQ, App. L, 6.28*1.03^9  | 10.5 inch ID x 3200 ft; plugging per 19.27.4 NMAC  |
| <b>1.2.2 Well Abandonment</b>   |                                 |      |             |       |                     | Three wells in each of three aquifers will be retained for long-term monitoring |          |           |          | \$         | <b>758,863</b>   |  |   |  |
| Deep wells (21)   | 4 ;1 cement bentonite grout mix | LF   | \$ 6.60     | 67205 | \$ 443,403          | 4 ;1 cement bentonite grout mix, 17 wells                                       | LF       | 14.45     | 51958    | 750793.1   |                  | \$ 307,390   | RSM 02 41 13.76 1000; <a href="https://www.epa.gov/sites/production/files/2016-11/documents/appendixl.pdf">https://www.epa.gov/sites/production/files/2016-11/documents/appendixl.pdf</a> ; | 7 inch to 9 5/8 inch diameter casing grouted in all wells; plugging per 19.27.4 NMAC. PRESERVE Phase 1 wells   |
| Abatement monitoring wells (5)  | cement bentonite grout          | ft   | \$ 4.20     | 180   | \$ 756              | cement bentonite grout 13 wells   | ft       | 14.45     | 558.5    | 8070.325   |                  | \$ 7,314   | RSM 02 41 13.76 0200; WYDEQ, App. L   | 2 to 6 inch diameter casing  |
| <b>1.3 Surface Facilities Demolition</b>                                  |                                 |      |             |       |                     |   |          |           |          | \$         | <b>1,126,803</b> |  |   |  |
|   |                                 |      |             |       |                     |   |          |           |          |            |                  |  |   | Dispose of contaminated demolition debris in disposal cell expansion pits  |

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|---|--------------------------|----|-------------|--------|------------|---|----|--------------|--------|-----------|--|--------------|--|--|
| 1.3.1 Compressor Building                               | Steel Frame (2)          | CF | \$ 0.145    | 25921  | \$ 3,759   | Steel Frame (2)                         | CF | \$ 0.217     | 25921  | \$ 5,625  |  | \$ 1,866     | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 1620   | \$ 2,527   | equipment, various                      | CF | \$ 1.75      | 1620   | \$ 2,835  |  | \$ 308       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab, removed   | SF | \$ 4.89     | 1620   | \$ 7,922   | concrete slab, break up, leave in place | SF | \$ 0.81      | 1620   | \$ 1,312  |  | \$ (6,610)   | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.2 York Chiller Refrigeration Equipment and Building | Steel Frame (2)          | CF | \$ 0.145    | 150000 | \$ 21,750  | Steel Frame (2)                         | CF | \$ 0.217     | 150000 | \$ 32,550 |  | \$ 10,800    | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 5000   | \$ 7,800   | equipment, various                      | CF | \$ 1.75      | 5000   | \$ 8,750  |  | \$ 950       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab, removed   | SF | \$ 4.89     | 5000   | \$ 24,450  | concrete slab, break up, leave in place | SF | \$ 0.81      | 5000   | \$ 4,050  |  | \$ (20,400)  | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.3 Pump Building (Chill Water Pump House)            | Steel Frame (2)          | CF | \$ 0.145    | 15360  | \$ 2,227   | Steel Frame (2)                         | CF | \$ 0.217     | 15360  | \$ 3,333  |  | \$ 1,106     | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 960    | \$ 1,498   | equipment, various                      | CF | \$ 1.75      | 960    | \$ 1,680  |  | \$ 182       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab, removed   | SF | \$ 4.89     | 960    | \$ 4,694   | concrete slab, break up, leave in place | SF | \$ 0.81      | 960    | \$ 778    |  | \$ (3,917)   | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.4 Shaft Heating Building                            | Steel Frame (2)          | CF | \$ 0.145    | 24000  | \$ 3,480   | Steel Frame (2)                         | CF | \$ 0.217     | 24000  | \$ 5,208  |  | \$ 1,728     | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 1500   | \$ 2,340   | equipment, various                      | CF | \$ 1.75      | 1500   | \$ 2,625  |  | \$ 285       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab            | SF | \$ 4.89     | 1500   | \$ 7,335   | concrete slab, break up, leave in place | SF | \$ 0.81      | 1500   | \$ 1,215  |  | \$ (6,120)   | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.5 Hoist House                                       | Steel Frame (2)          | CF | \$ 0.145    | 24000  | \$ 3,480   | to be retained for PMLU                 |    |              |        |           |  | \$ (3,480)   | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 1500   | \$ 2,340   |   |    |              |        |           |  | \$ (2,340)   | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete hoist pedestals | CY | \$ 207.50   | 148    | \$ 30,741  |   |    |              |        |           |  | \$ (30,741)  | RSM 03 05 05.10 0070                                   | Excavator with hydraulic hammer; two heavily reinforced concrete pedestals 20' x 10' x 10' |
|   | concrete slab, removed   | SF | \$ 4.89     | 1500   | \$ 7,335   |   |    |              |        |           |  | \$ (7,335)   | RSM 02 41 16.17 0440, 4200                             | assume 0.5 ft thickness  |
| 1.3.6 Service Building (Office and Warehouse)           | Steel Frame (2)          | CF | \$ 0.145    | 642528 | \$ 93,167  | to be retained for PMLU                 |    |              |        |           |  | \$ (93,167)  | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 53544  | \$ 83,529  |   |    |              |        |           |  | \$ (83,529)  | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab, removed   | SF | \$ 4.89     | 53544  | \$ 261,830 |   |    |              |        |           |  | \$ (261,830) | RSM 02 41 16.17 0440, 4200                             | assume 0.5 ft thickness  |
| 1.3.7 Electrical Building                               | Steel Frame (2)          | CF | \$ 0.145    | 29760  | \$ 4,315   | to be retained for PMLU                 |    |              |        |           |  | \$ (4,315)   | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 1860   | \$ 2,902   |   |    |              |        |           |  | \$ (2,902)   | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab, removed   | SF | \$ 4.89     | 1860   | \$ 9,095   |   |    |              |        |           |  | \$ (9,095)   | RSM 02 41 16.17 0440; G1030 150 1000; 31 23 23.20 0014 | assume 0.5 ft thickness  |
| 1.3.8 Water Treatment and Boiler Building               | Steel Frame (2)          | CF | \$ 0.145    | 49600  | \$ 7,192   | Steel Frame (2)                         | CF | \$ 0.217     | 49600  | \$ 10,763 |  | \$ 3,571     | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | SF | \$ 1.56     | 3100   | \$ 4,836   | equipment, various                      | SF | \$ 1.75      | 3100   | \$ 5,425  |  | \$ 589       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab            | SF | \$ 4.89     | 3100   | \$ 15,159  | concrete slab, break up, leave in place | SF | \$ 0.81      | 3100   | \$ 2,511  |  | \$ (12,648)  | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.9 Fuel Storage Tanks                                | Steel tanks at surface   | EA | \$ 1,000.00 | 7      | \$ 7,000   | Steel tanks at surface                  | LS | \$ 29,866.00 | 1      | \$ 29,886 |  | \$ 22,886    | Actual contract cost                                   | 7 tanks @30' x 8'  |
| 1.3.10 Storage Building                                 | Steel Frame (2)          | CF | \$ 0.145    | 13440  | \$ 1,949   | Steel Frame (2)                         | CF | \$ 0.217     | 13440  | \$ 2,916  |  | \$ 968       | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 840    | \$ 1,310   | equipment, various                      | CF | \$ 1.75      | 840    | \$ 1,470  |  | \$ 160       | Note 3   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support       |
|   | concrete slab            | SF | \$ 4.89     | 840    | \$ 4,108   | concrete slab, break up, leave in place | SF | \$ 0.81      | 840    | \$ 680    |  | \$ (3,427)   | RSM 02 41 16.17 0440                                   | assume 0.5 ft thickness  |
| 1.3.11 Glycol Heat Exchanger                            | Steel Frame (2)          | CF | \$ 0.145    | 24000  | \$ 3,480   | Steel Frame (2)                         | CF | \$ 0.217     | 24000  | \$ 5,208  |  | \$ 1,728     | RSM 02 41 16.13 0500, 5000                             |  |
|   | equipment, various       | CF | \$ 1.56     | 1500   | \$ 2,340   | equipment, various                      | CF | \$ 1.75      | 1500   | \$ 2,625  |  | \$ 285       | Note 3   | assume 1 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area                            |
|   | concrete slab, removed   | SF | \$ 4.89     | 1500   | \$ 7,335   | concrete slab, break up, leave in place | SF | \$ 0.81      | 1500   | \$ 1,215  |  | \$ (6,120)   | RSM 02 41 16.17 0440, 5000                             | assume 0.5 ft thickness  |

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|   |                                     |                       |          |          |            |   |                       |             |         |            |          |             |  |   |  |
|---|-------------------------------------|-----------------------|----------|----------|------------|---|-----------------------|-------------|---------|------------|----------|-------------|--|---|--|
| 1.3.12 Chlorine Building  | concrete block                      | CF                    | \$ 0.145 | 6120     | \$ 887     | concrete block  | CF                    | \$ 0.210    | 6120    | \$ 1,285   |          | \$ 398      | RSM 02 41 16.13 0080   |   |  |
|   | equipment, various                  | CF                    | \$ 1.56  | 360      | \$ 562     | equipment, various  | CF                    | \$ 1.75     | 360     | \$ 630     |          | \$ 68       | Note 3   | assume 1 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area   |  |
|   | concrete slab                       | SF                    | \$ 4.89  | 360      | \$ 1,760   | concrete slab, break up, leave in place                     | SF                    | \$ 0.81     | 360     | \$ 292     |          | \$ (1,469)  | RSM 02 41 16.17 0440, 5000   | assume 0.5 ft thickness   |  |
| 1.3.13 Flocculant Treatment Building  | Steel Frame (2)                     | CF                    | \$ 0.145 | 8280     | \$ 1,201   | Steel Frame (2)   | CF                    | \$ 0.217    | 8280    | \$ 1,797   |          | \$ 596      | RSM 02 41 16.13 0500, 5000   |   |  |
|   | equipment, various                  | CF                    | \$ 1.56  | 690      | \$ 1,076   | equipment, various  | CF                    | \$ 1.75     | 690     | \$ 1,208   |          | \$ 131      | Note 3   | assume 1 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area   |  |
|   | concrete slab, removed              | SF                    | \$ 4.89  | 690      | \$ 3,374   | concrete slab, break up, leave in place                     | SF                    | \$ 0.81     | 690     | \$ 559     |          | \$ (2,815)  | RSM 02 41 16.17 0440, 5000   | assume 0.5 ft thickness   |  |
| 1.3.14 Barium Chloride Treatment Facility   | Steel Frame (2)                     | CF                    | \$ 0.145 | 16000    | \$ 2,320   | Steel Frame (2)   | CF                    | \$ 0.217    | 16000   | \$ 3,472   |          | \$ 1,152    | RSM 02 41 16.13 0500, 5000   |   |  |
|   | equipment, various                  | CF                    | \$ 1.56  | 1000     | \$ 1,560   | equipment, various  | CF                    | \$ 1.75     | 1000    | \$ 1,750   |          | \$ 190      | Note 3   | assume 1 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area   |  |
|   | concrete slab, removed              | SF                    | \$ 4.89  | 1000     | \$ 4,890   | concrete slab, break up, leave in place                     | SF                    | \$ 0.81     | 1000    | \$ 810     |          | \$ (4,080)  | RSM 02 41 16.17 0440, 5000   | assume 0.5 ft thickness   |  |
| 1.3.15a Ion Exchange Building   | Steel Frame and siding              | CF                    | \$ 0.145 | 392000   | \$ 56,840  | Steel Frame and siding                                      | CF                    | \$ 0.217    | 392000  | \$ 85,064  |          | \$ 28,224   | RSM 02 41 16.13 0500, 5000   |   |  |
|   | IX equipment                        | not included          |          |          |            | IX equipment - hydraulic shear and removal to disposal cell | days                  | \$ 2,040.00 | 10      | \$ 20,400  |          | \$ 20,400   | RSM 01 54 33 0330, Crew B3   | Minimal radiological D&D for disposal on site. Assume no salvage or re-sale value; equipment volume is 20% of building space. |  |
|   | concrete slab                       | SF                    | \$ 4.89  | 9800     | \$ 47,922  | concrete slab - break up, remove to disposal cell           | SF                    | \$ 9.68     | 9800    | \$ 94,864  |          | \$ 46,942   | RSM 02 41 16.17 0440, 4200   | assume 0.5 ft. thickness  |  |
| 1.3.15b Mo/Se Treatment Building  | Steel Frame (2)                     | CF                    | \$ 0.145 | 655760   | \$ 95,085  | not constructed   |                       |             |         |            |          | \$ (95,085) | RSM 02 41 16.13 0500, 5000   | LNV Design Drawings, O & M Manual   |  |
|   | equipment, various                  | CF                    | \$ 1.56  | 16394    | \$ 25,575  |   |                       |             |         |            |          | \$ (25,575) | Note 3   | assume 1 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area   |  |
|   | concrete slab, removed              | SF                    | \$ 4.89  | 16394    | \$ 80,167  |   |                       |             |         |            |          | \$ (80,167) | RSM 02 41 16.17 0440, 5000   | LNV Design Drawings, O & M Manual; assume slab 0.5 ft thick   |  |
| 1.3.16 Mine Water Treatment Pond Hydraulic Structures   | concrete                            | CY                    | \$ 69.45 | 80       | \$ 5,556   | concrete  | CY                    | \$ 78.80    | 80      | \$ 6,304   |          | \$ 748      | RSM 03 05 05.10 0050   | Disposed in pond basins   |  |
| 1.3.17 Mine Car Rails   | 90 lb steel rail                    | lineal ft             | \$ 8.76  | 8787     | \$ 76,974  | 90 lb steel rail  | lineal ft             | \$ 9.36     | 8787    | \$ 82,246  |          | \$ 5,272    | WYDEQ, App. K; RSM 02 41 13.33 3500  | Dwg C-159, -160, F-119; field survey "Rail Footage"; assume 4 lineal ft = 1 ft <sup>3</sup> volume                            |  |
|   | Concrete base for rail              | low strength concrete | SF       | \$ 4.89  | 8569       | \$ 41,903   | low strength concrete | SF          | \$ 0.29 | 8569       | \$ 2,485 |             | \$ (39,418)  | RSM 02 41 16.17 0420  | assume 0.5 ft thickness  |
| 1.3.18 Shaft Exhaust Fans and Vents   | light structural steel, sheet metal | CF                    | \$ 0.145 | 18750    | \$ 2,719   | light structural steel, sheet metal                         | CF                    | \$ 0.310    | 18750   | \$ 5,813   |          | \$ 3,094    | RSM 02 41 16.13 0500   |   |  |
| 1.3.19 Cooling Towers   | Steel frame and plate               | CF                    | \$ 0.145 | 46875    | \$ 6,797   | Steel frame and plate                                       | CF                    | \$ 0.217    | 46875   | \$ 10,172  |          | \$ 3,375    | RSM 02 41 16.13 0500, 5001   |   |  |
|   | equipment, various                  | CF                    | \$ 1.56  | 5625     | \$ 8,775   | equipment, various  | CF                    | \$ 1.75     | 5625    | \$ 9,844   |          | \$ 1,069    | RSM 02 41 19.21 1000   | assume 3 ft <sup>3</sup> volume per ft <sup>2</sup> gutted area   |  |
|   | concrete slab, removed              | SF                    | \$ 4.89  | 1875     | \$ 9,169   | concrete slab, break up, leave in place                     | SF                    | \$ 0.81     | 1875    | \$ 1,519   |          | \$ (7,650)  | RSM 02 41 16.17 0440, 5000   | assume 0.5 ft thickness   |  |
| 1.3.20 Mine Water Discharge Pipes   | 12in. Sch 40 PVC                    | LF                    | \$ 3.18  | 3000     | \$ 9,540   | 12in. Sch 40 steel  | LF                    | \$ 1.93     | 3000    | \$ 5,790   |          | \$ (3,750)  | RSM 02 41 13.40 0150   | Remove only the portions of pipes extending beyond the tunnel. 0.1 ft <sup>3</sup> /ft volume                                 |  |
| 1.3.21 Treated Water Discharge Pipeline   | steel, 24 inch diameter, re-cycled  | LF                    | \$ 23.96 | 23000    | \$ 551,080 | steel, 24 inch diameter, no re-cycle                        | LF                    | \$ 27.02    | 22757   | \$ 614,889 |          | \$ 63,809   | RSM 22 05 05.10 2155; <a href="http://www.engineeringtoolbox.com/ansi-steel-pipes-d_305.html">http://www.engineeringtoolbox.com/ansi-steel-pipes-d_305.html</a> ; RSM 22 05 05.10 2220 | no scrap value. Pipe contaminated. Bury on mine site.   |  |
| 1.3.22 Truck Wash   | plumbing, frame, siding, roof (2)   | SF                    | \$ 1.55  | 10295    | \$ 15,957  | not constructed   |                       |             |         |            |          | \$ (15,957) | Piñon Ridge Mill Decommissioning and Reclamation Cost Estimate, Attachment G, item 8a2 x 12.55% of 2009 Unit \$; RSM Crew B-1A   | Estimated 200 SF per hour cutting with CAT 365 with hydraulic shear and crew support  |  |
|   | concrete slab                       | SF                    | \$ 4.89  | 14875    | \$ 72,739  |   |                       |             |         |            |          | \$ (72,739) | RSM 02 41 16.17 0420, 5000   | assume 0.5 ft thickness   |  |
| 1.3.23 Manholes and culverts  | Remove manholes and catch basins    | steel, concrete       | ea       | \$ 186   | 2          | \$ 371  | not constructed       |             |         |            |          |             | \$ (371)   | RSM 02 41 13.33 0030  | Remove only above final grade in ore pad and truck wash areas. Backfill below grade with soil/cement slurry. |
|   | Remove culverts                     |                       | LF       | \$ 23.00 | 1220       | \$ 28,060   |                       |             |         |            |          |             | \$ (28,060)  | RSM 02 41 13.33 2960  | Trench to remove, then backfill  |
|   | Backfill trench                     |                       | CY       | \$ 2.04  | 1084       | \$ 2,212  |                       |             |         |            |          |             | \$ (2,212)   | RSM 31 23 16.13 3020  |  |
| 1.3.24 Non-contaminated debris hauling and dumping/ stacking for salvage or disposal in pond basins | various                             | CY                    | \$ 2.78  | 3897     | \$ 10,834  | various   | CY                    | \$ 2.90     | 3897    | \$ 11,301  |          | \$ 468      | RSM 31 23 23.20 5130   | Assume 1 cf debris per 1sf of building floor area. 2000 ft average cycle distance   |  |

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**Rev. 8.2 3/25/2021**

|  |                                   |     |              |       |            |   |     |          |        |            |                     |  |   |
|--|-----------------------------------|-----|--------------|-------|------------|---|-----|----------|--------|------------|---------------------|--|---|
| 1.3.25 Fire Equipment Building                             | was to be retained for PMLU       |     |              |       |            | Steel frame, siding                     | CF  | \$ 0.217 | 10368  | \$ 2,250   | \$ 2,250            | RSM 02 41 16.13 0500, 5000                               |   |
|  |                                   |     |              |       |            | concrete slab, break up, leave in place | SF  | \$ 0.81  | 648    | \$ 525     | \$ 525              | RSM 02 41 16.17 0440, 5000                               | assume 0.5 ft thickness   |
| 1.3.26 Carpenter Shop                                      | was to be retained for PMLU       |     |              |       |            | Steel frame, siding                     | CF  | \$ 0.217 | 17,280 | \$ 3,750   | \$ 3,750            | RSM 02 41 16.13 0500, 5000                               |   |
|  |                                   |     |              |       |            | concrete slab, break up, leave in place | SF  | \$ 0.81  | 1,080  | \$ 875     | \$ 875              | RSM 02 41 16.17 0440, 5000                               | assume 0.5 ft thickness   |
| 1.3.27 Core Storage Building                               | was to be retained for PMLU       |     |              |       |            | Steel frame, siding                     | CF  | \$ 0.217 | 60800  | \$ 13,194  | \$ 13,194           | RSM 02 41 16.13 0500, 5000                               |   |
|  |                                   |     |              |       |            | concrete slab, break up, leave in place | SF  | \$ 0.81  | 3800   | \$ 3,078   | \$ 3,078            | RSM 02 41 16.17 0440, 5000                               | assume 0.5 ft thickness   |
| 1.3.28 Fan Shop  | was to be retained for PMLU       |     |              |       |            | Steel frame, siding                     | CF  | \$ 0.217 | 14400  | \$ 3,125   | \$ 3,125            | RSM 02 41 16.13 0500, 5000                               |   |
|  |                                   |     |              |       |            | concrete slab, break up, leave in place | SF  | \$ 0.81  | 1200   | \$ 972     | \$ 972              | RSM 02 41 16.17 0440, 5000                               | assume 0.5 ft thickness   |
| 1.3.29 Fuel Pump House                                     | was to be retained for PMLU       |     |              |       |            | Steel frame, siding                     | CF  | \$ 0.217 | 1200   | \$ 260     | \$ 260              | RSM 02 41 16.13 0500, 5000                               |   |
|  |                                   |     |              |       |            | concrete slab, break up, leave in place | SF  | \$ 0.81  | 150    | \$ 122     | \$ 122              | RSM 02 41 16.17 0440, 5000                               | assume 0.5 ft thickness   |
| 1.3.30 Sanitary Treatment Plant                            | not included                      |     |              |       |            | Pipe and wooden shed                    | CF  | \$ 1.75  | 2000   | \$ 3,500   | \$ 3,500            | RSM 02 41 16.13 0500, 5000                               | Removed surface pipes and pump shed, disposed in subgrade tanks. Backfill concrete below-grade tanks during site regrading. |
| 1.3.31 Car (Maintenance) Shop                              | To be retained for PMLU           |     |              |       |            | To be retained for PMLU                 |     |          |        |            | \$ -                |  |   |
| 1.3.32 Guard House   | To be retained for PMLU           |     |              |       |            | To be retained for PMLU                 |     |          |        |            | \$ -                |  |   |
| 1.3.33 Septic Tank and Leach Field                         | To be retained for PMLU           |     |              |       |            | To be retained for PMLU                 |     |          |        |            | \$ -                |  |   |
| 1.3.34 Water Tank  | To be retained for PMLU           |     |              |       |            | To be retained for PMLU                 |     |          |        |            | \$ -                |  |   |
| <b>1.4 Earthwork</b>                                       |                                   |     |              |       |            |   |     |          |        |            | <b>\$ 2,688,255</b> | 15 % swell of BCY to LCY assumed                         |   |
| 1.4.1 Ore Pad  |                                   |     |              |       |            | after ore removal                       |     |          |        |            | <b>\$ 152,760</b>   | Updated-Closeout Volume EstimatesAKA-Review-200511       |   |
| Excavate, load, haul, dump contaminated soil               | contaminated soil only            | LCY | \$ 4.05      | 15906 | \$ 64,419  | contaminated soil only                  | LCY | \$ 3.65  | 30178  | \$ 110,150 | \$ 45,730           | RSM 31 23 16.432 5300; 31 23 23.20 0016                  | 4.5 cy excavator, 8 CY TRUCK; EL 120320   |
| Excavate, load, haul, dump ore pad pond sediment           | contaminated soil only            | LCY | not included |       |            | contaminated soil only                  | LCY | \$ 3.65  | 11674  | \$ 42,610  | \$ 42,610           | RSM 31 23 16.432 5300; 31 23 23.20 0017                  | EL 120320   |
| Remove catch basins and culverts, dispose in Pond #1 basin | upgraded ore pad                  | LF  | \$ 36.92     | 1220  | \$ 45,042  | not constructed                         |     |          |        |            | \$ (45,042)         | RSM G1030 805 1430; RSM 02 41 13.33 2960                 | Trench to remove, then backfill   |
| <b>1.4.2 Excavation and Disposal of Contaminated Soil</b>  | soil above 23 mR/hr, 6.8 pCi/g Ra |     |              |       |            | Based on 2020 ERG surveys               |     |          |        |            | <b>\$ 371,587</b>   | Place in Disposal Cell                                   |   |
| Mine Water Treatment Pond Area (less pond basins)          | total pond area less pond basins  | BCY | \$ 4.31      | 24943 | \$ 107,504 | total pond area less pond basins        | BCY | \$ 5.36  | 22648  | \$ 121,394 | \$ 13,890           | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0016 | D 10 DOZER, 8 CY TRUCK, 5 CY LOADER; area defined by ERG survey 2020  |
| Discharge pipeline corridor                                | not included                      |     |              |       |            | contaminated soil                       | BCY | \$ 5.98  | 6556   | \$ 39,205  | \$ 39,205           | RSM 31 23 16.42 1601; RSM 31 23 23 0020                  |   |
| County Road ROW  | gravel and soil                   | BCY | \$ 3.31      | 3791  | \$ 12,548  | gravel and soil                         | BCY | \$ 5.36  | 4852   | \$ 26,007  | \$ 13,459           | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0017 |   |
| Borrow Soil Area   |                                   | BCY | \$ 4.31      | 7395  | \$ 31,872  | Borrow Soil Area                        | BCY | \$ 6.37  | 7395   | \$ 47,106  | \$ 15,234           | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0018 | D 10 DOZER, 8 CY TRUCK, 5 CY LOADER; EL 120320  |
| North of Marquez Arroyo                                    |                                   | BCY | \$ 4.31      | 12707 | \$ 54,767  | wind-blown sediment                     | BCY | \$ 6.37  | 13889  | \$ 88,472  | \$ 33,705           | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0019 | D 10 DOZER, 8 CY TRUCK, 5 CY LOADER; EL 120321  |
| 24 ft Shaft area   |                                   | BCY | \$ 3.31      | 34104 | \$ 112,884 | contaminated soil                       | BCY | \$ 4.97  | 6296   | \$ 31,293  | \$ (81,592)         | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0014 | D 10 DOZER, 8 CY TRUCK, 5 CY LOADER   |
| South Storm Water Pond                                     |                                   | BCY | \$ 2.81      | 1514  | \$ 4,254   | contaminated soil                       | BCY | \$ 4.97  | 403    | \$ 2,005   | \$ (2,250)          | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0014 | assume one acre and 0.5 feet sediment   |

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**Rev. 8.2 3/25/2021**

|  |  |                         |              |         |   |   |                   |           |            |                     |  |  |  |
|--|--|-------------------------|--------------|---------|---|---|-------------------|-----------|------------|---------------------|--|--|--|
| Other areas including MWTU pond area   | not included   |                         |              |         | contaminated soil   | BCY   | \$ 4.97           | 3241      | \$ 16,106  |                     | \$ 16,106  | RSM 31 23 16 46 6006, 31 23 16 42 1650, 31 23 23 20 0014   | area from survey, assuming ave. 0.5 ft thick   |
| <b>1.4.3 HDPE-Liner Ponds -Water Treatment (MWTU) Ponds and Ore Runoff Retention Pond Backfill</b>                           |  |                         |              |         |   |   |                   |           |            | <b>\$ 684,680</b>   |  |  |  |
| Excavate, load, haul, dump sediment from Pond 2 and 3 liners on waste pile   | Contaminated pond sediments                            | BCY                     | \$ 7.33      | 7716    | \$ 56,558   | Vacuum pond sediments in ponds 2 and 3, discharge in disposal cell      | days              | \$ 1,301  | 2          | \$ 2,602            | \$ (53,956)  | crews B-6A,  | vacuum truck, small dozer  |
| Remove Ponds 2 and 3 HDPE liners from anchor trenches and tops of pond slopes  | Fold HPDE membrane into pond to 4 ft below final grade | SF                      | \$ 0.081     | 121778  | \$ 9,864  | Fold HPDE membrane into in ponds 2 and 3 pond to 4 ft below final grade | SF                | \$ 0.08   | 18360      | \$ 1,401            | \$ (8,463)   | RSM B-6, B-10T Crews   | laborers, operator, backhoe, truck, dozer for 2000 SF/hr;  |
| Remove hydraulic control structures above final grade  | concrete   | CY                      | not included |         |   | concrete  | CY                | \$ 118.70 | 180        | \$ 21,366           | \$ 21,366  | RSM 03 05 05.10 0060   | Excavator with hydraulic hammer  |
| Pond backfill by pond berm excavation and placement as backfill (MWTU Ponds 1, 2, 3, 4, 5, 6, 7, and 8 and the Ore Pad Pond) | large scale earthwork                                  | BCY                     | \$ 2.54      | 170,060 | \$ 431,952  | balanced cut and fill in MWTU and ore pad areas                         | BCY               | \$ 2.87   | 162,000    | \$ 464,940          | \$ 32,988  | RSM 31 23 16.46 6035; Caterpillar Performance Handbook   | CAT D11, < 200 ft push. REDUCTION FROM 2013 VOLUMES DUE TO LOWERING OF FINAL GRADED SURFACE.   |
| Mine Water Treatment Pond Area cut/fill  | total pond area less pond basins                       | BCY                     | \$ 3.31      | 58,195  | \$ 192,625  | total pond area less pond basins  | BCY               | \$ 3.34   | 58,195     | \$ 194,371          | \$ 1,746   | RSM 31 23 16.50 2420: Caterpillar Performance Handbook   |  |
| <b>1.4.4 Waste Pile Buildout Stabilization</b>   |  |                         |              |         |   |   |                   |           |            | <b>\$ 1,276,829</b> |  |  |  |
| Disposal Cell for contaminated sediments, soils, debris  | Assumes expansion of waste pile to 19.3 acres          |                         |              |         |   |   |                   |           |            |                     |  |  |  |
| Excavate below-grade pits 1 and 2  | Not included previously                                |                         |              |         | clean soil  | BCY   | \$ 1.27           | 36,192    | \$ 45,964  | \$ 45,964           | RSM 31 23 16.42 0305   | Drawings C-A01 and CC-01. Use excavated soil for disposal cell cover and general fill  |  |
| Place and compact disposal cell berms  | contaminated soil                                      | BCY                     | \$ 1.46      | 17,400  | \$ 25,404   | contaminated soil   | BCY               | \$ 1.85   | 17,400     | \$ 32,190           | \$ 11,374  | RSM 31 23 16.46 6010; Caterpillar Performance Handbook   | Cell and berm dimensions per MT13Drawing - dozer tread compaction on 50 ft haul. Construct with contaminated soil from site cleanup. |
| Excavate, load, and haul remaining liner soil for expansion to east limit, including below-grade pits                        | clean clayey soil                                      | BCY                     | \$ 4.31      | 2,489   | \$ 10,727   | clean clayey soil   | BCY               | \$ 4.09   | 8,991      | \$ 36,778           | \$ 14,178  | RSM 31 23 16.50 2430: Caterpillar Performance Handbook   |  |
| Place and compact remaining disposal cell and pits liner   | clean clayey soil                                      | LCY                     | \$ 2.43      | 2,862   | \$ 6,955  | clean clayey soil, 7.8 acres beyond original 11.5                       | LCY               | \$ 2.77   | 8,991      | \$ 24,905           | \$ 17,950  | RSM 31 23 16.46 6006 and 31 23 23 5620; Caterpillar Performance Handbook   | CAT D11, max. 50 ft push; 1.0 ft across cell surface; sheepsfoot compaction;   |
| Cover soil excavate, load, haul, and place   | clean soil   | BCY                     | \$ 4.31      | 34,905  | \$ 150,442  | Lines 144-147 replaced by lines 162-167                                 |                   |           |            |                     |  | \$ (150,442)   |  |
| Cover placement - disposal cell and top of pile  | stockpiled shaft muck, clean soil                      | LCY                     | \$ 1.46      | 40,141  | \$ 58,606   |   |                   |           |            |                     |  | \$ (58,606)  |  |
| Cover grading  | grade to design slope                                  | acre                    | \$ 936.54    | 8.30    | \$ 7,770  |   |                   |           |            |                     |  | \$ (7,770)   |  |
| Erosion control mat  | tobacco netting  | SY                      | \$ 0.50      | 26614   | \$ 13,307   |   |                   |           |            |                     |  | \$ (13,307)  |  |
| Flowable fill after treated water pipeline and debris placement  | Not included previously                                |                         |              |         | cementitious slurry with >50% soil, > 50 PSI to fill in and around pipe | CY  | \$ 80.00          | 9,940     | \$ 795,162 | \$ 795,162          | RSM 03 31 13.35 4200; 0305 13.30; 03 05 13.20 6000; NRMCA Guide Specification for Controlled Low Strength Materials (CLSM) | Stack pipe edge to edge in rows. Fill each pipe with debris when placing at tilt, then lowering. Assume 1/4 pipe interior volume is debris |  |
| Clay (radon barrier) soil excavation and haul, expansion area  | Not included previously                                |                         |              |         | Borrow from area A  | CY  | \$ 3.51           | 25168     | \$ 88,340  | \$ 88,340           | RSM 31 23 16.43 4700;  |  |  |
| Clay cover (radon barrier) placement and compaction, expansion area  | clean clayey soil                                      | Not included previously |              |         | clean clayey soil   | CY  | \$ 1.11           | 26030     | \$ 28,893  | \$ 28,893           | RSM 31 23 23.23 5620   | 6" lift, 3 passes; EL120320  |  |
| Loam cover soil - excavated from Pits 1 and 2, haul for 19.3 acres less south slope  | clean soil   | Not included previously |              |         | clean loam soil from below grade excavation of Pits 1 and 2             | BCY   | \$ 2.24           | 36192     | \$ 81,070  | \$ 81,070           | RSM 31 23 23.20 0014   | 3 1/2 cy excavator; TRUCK HAUL 1 MI RT AND PLACE   |  |
| Loam cover soil - excavate, load, haul from Borrow area A  | clean soil   | Not included previously |              |         | clean loam soil   | BCY   | \$ 4.09           | 7610      | \$ 31,129  | \$ 31,129           | RSM 31 23 16.50 2430: Caterpillar Performance Handbook   |  |  |
| Cover placement - loam soil for 19.3 acres less south slope  | stockpiled shaft muck, clean loam soil                 | Not included previously |              |         | clean loam soil, 1.5 ft thick   | LCY   | \$ 0.78           | 41621     | \$ 32,464  | \$ 32,464           | RSM 31 23 23.14 5010   | 3 1/2 cy excavator; TRUCK HAUL 1 MI RT AND PLACE   |  |
| Cover grading  | grade to design slope                                  | acre                    | \$ 936.54    | 8.30    | \$ 7,770  | grade to design slope   | see Section 1.4.6 |           |            |                     | \$ (7,770)   | RSM 31 22 16.10 3310   | AutoCAD measured   |
| South slope cut and fill   | shaft muck   | Not included previously |              |         | shaft muck  | CY  | \$ 5.07           | 600       | \$ 3,042   | \$ 3,042            | RSM G 1030 115 1000  |  |  |
| Riprap on drainage bench and south slope   | broken concrete, rock                                  | Not included previously |              |         | broken concrete, rock   | CY  | \$ 28.57          | 795       | \$ 22,713  | \$ 22,713           | RSM 31 37 13.10 0200   |  |  |
| Erosion control mat  | tobacco netting  | SY                      | \$ 0.50      | 26614   | \$ 13,307   | Biodegradable mesh  | SY                | \$ 0.58   | 93412      | \$ 54,179           | \$ 40,872  | RSM 31 25 14.16 0070   | Exposed slope during buildout, after reshaping for activation  |



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**COST ESTIMATE - MT TAYLOR MINE CLOSEOUT/ DP-61 CLOSURE**

**Rev. 8.2 3/25/2021**

|   |                              |                          |             |       |                     |  |       |             |       |                     |  |                     |  |   |  |
|---|------------------------------|--------------------------|-------------|-------|---------------------|--|-------|-------------|-------|---------------------|--|---------------------|--|---|--|
| <b>1.4.5 Riprap and Water Bars, including 19.3 acre expansion</b> |                              |                          |             |       |                     |  |       |             |       |                     |  |                     | <b>\$ 85,088</b>   |   | Placed as needed on waste pile and channels, using all recycled concrete from facilities demolition. |
| Concrete debris - crushing, loading                               | concrete, rock               | CY                       | \$ 1.67     | 2496  | \$ 4,178            | concrete, rock                         | CY    | \$ 9.11     | 2496  | \$ 22,736           |  | \$ 18,558           | RSM G1030 150 7000   | Concrete broken by hydraulic pulverizer during facility demolition; CAT 980 with 5 cy bucket, D250E truck   |  |
| Screening (all crushed rock for riprap)                           | concrete, rock               | day                      | \$ 532.20   | 14.26 | \$ 7,590            | concrete, rock                         | day   | \$ 610.35   | 20    | \$ 12,207           |  | \$ 4,617            | RSM 01 54 33 3710  | 150-200 CY/day  |  |
| Crushed rock and concrete hauling                                 | broken concrete, rock        | CY                       | \$ 8.22     | 2496  | \$ 20,514           | local rock                             | CY    | 2.63        | 3496  | \$ 9,194            |  | \$ (11,320)         | RSM 31 23 23.20 0016   |   |  |
| Placing channel riprap  | concrete, rock               | SY                       | \$ 28.50    | 889   | \$ 25,333           | concrete, rock                         | SY    | \$ 28.57    | 889   | \$ 25,396           |  | \$ 62               | RSM 31 37 13.10 0200   | 1500 CY machine placed, 2 ft thick  |  |
| Placing on waste pile slope                                       | concrete, rock               | CY                       | \$ 25.87    | 1607  | \$ 41,568           | concrete, rock mulch                   | SY    | \$ 9.68     | 1607  | \$ 15,556           |  | \$ (26,012)         | rsm 32 91 13.16 1200   | Placed on slope for rock mulch or spreading in finish grading   |  |
| <b>1.4.6 Finish grading</b>                                       |                              |                          |             |       |                     |  |       |             |       |                     |  |                     | <b>\$ 117,311</b>  |   | pond/ ore pad/ borrow area +surface facilities + waste pile  |
| Mine Water Treatment Pond area (less pond basins)                 |                              | acres                    | \$ 75.25    | 28.0  | \$ 2,107            |  | acres | \$ 774.40   | 28.0  | \$ 21,683           |  | \$ 19,576           | RSM 31 22 16.10 3300   | AutoCad measured  |  |
| County road ROW   |                              | acres                    | \$ 75.25    | 4.7   | \$ 354              |  | acres | \$ 774.40   | 4.7   | \$ 3,640            |  | \$ 3,286            | RSM 31 22 16.10 3300   | AutoCad measured  |  |
| Ore pad and pond and borrow soil area A                           |                              | acres                    | \$ 75.25    | 19.0  | \$ 1,430            |  | acres | \$ 774.40   | 19.0  | \$ 14,714           |  | \$ 13,284           | RSM 31 22 16.10 3300   | AutoCad measured  |  |
| Waste pile area   | waste pile and adjacent area | acres                    | \$ 75.27    | 14.7  | \$ 1,109            | waste pile and adjacent area           | acres | \$ 774.40   | 19.3  | \$ 14,946           |  | \$ 13,837           | RSM 31 22 16.10 3300   | AutoCad measured: calc MT12-08-B  |  |
| Pipeline corridor   |                              | acres                    | \$ 75.25    | 15.6  | \$ 1,177            |  | acres | \$ 774.40   | 15.6  | \$ 12,109           |  | \$ 10,932           | RSM 31 22 16.10 3300   | measure by Google Earth   |  |
| Bench wall slope reduction  |                              | BCY                      | \$ 2.78     | 1852  | \$ 5,148            | rock excavation                        | BCY   | \$ 2.31     | 1852  | \$ 4,272            |  | \$ (876)            | RSM 31 23 16.42 0300; RSM 01 54 33 20 0347; Caterpillar Performance Handbook Model 160 hammer in massive sandstone | Drag slope to flatten from vertical to 1H:1V, all rock. CAT 320 excavator with hydraulic hammer, 200 CY/day |  |
| North of Marquez Arroyo   |                              | acres                    | \$ 75.25    | 17.6  | \$ 1,326            |  | acres | \$ 774.40   | 20.0  | \$ 15,488           |  | \$ 14,162           | RSM 31 22 16.10 3300   | AutoCad measured  |  |
| Service and Support Area  |                              | acres                    | \$ 73.79    | 39.3  | \$ 2,902            |  | acres | \$ 774.40   | 39.3  | \$ 30,460           |  | \$ 27,557           | RSM 31 22 16.10 3300   | AutoCad measured  |  |
| <b>1.5 Revegetation</b>   |                              |                          |             |       |                     |  |       |             |       |                     |  |                     | <b>\$ 604,008</b>  |   |  |
| 1.5.1 Seeding   | seed and drilling            | acres                    | \$ 871.20   | 100   | \$ 107,158          | seed and drilling                      | acres | \$ 1,071.47 | 173   | \$ 185,082          |  | \$ 77,924           | RSM 32 92 19.14 5700; ROADS REVEGETATION COST ESTIMATING GUIDE, NPS, 2000; quote from Branum in 8/20               | finish-graded area  |  |
| 1.5.2 Mulching and Fertilizing                                    |                              | acres                    | \$ 1,933.63 | 100   | \$ 192,748          |  | acres | \$ 2,317.39 | 173   | \$ 400,299          |  | \$ 207,551          | RSM 32 91 13.16 0350, RSM 32 01 90.13 0  | finish-graded area  |  |
| 1.5.3 Fencing   |                              | LF                       | \$ 1.49     | 10000 | \$ 14,892           | additional fence                       | LF    | \$ 1.49     | 4450  | \$ 6,627            |  | \$ (8,265)          | WYDEQ, App. H  | Chain link fence around final pond and waste pile areas   |  |
| 1.5.2 Vegetation Mointoring                                       | yearly for 12 years          | Not separated previously |             |       |                     | yearly for 12 years                    | days  | \$ 1,000.00 | 12    | \$ 12,000           |  | \$ 12,000           |  |   |  |
| <b>1.6 Environmental Controls (temporary)</b>                     |                              |                          |             |       |                     |  |       |             |       |                     |  |                     | <b>\$ 554,690</b>  |   |  |
| 1.6.1 Dust control  | water truck                  | hours                    | \$ 89.15    | 1600  | \$ 142,640          | water truck                            | hours | 71.97       | 1,600 | \$ 115,152          |  | \$ (27,488)         | RSM 01 54 33 40 6950   | earthwork periods, 200 days   |  |
| 1.6.2 SWPPP implementation  | silt fence                   | LF                       | \$ 0.60     | 3000  | \$ 1,800            | silt fence                             | LS    | 1           | 5,000 | \$ 5,000            |  | \$ 3,200            | RSM 31 25 14.16 1000   |   |  |
| 1.6.3 Environmental Monitoring, Post Closure                      | Not included previously      |                          |             |       |                     | Consultant for Post-Closure Monitoring | hours | 1572        | 90    | \$ 141,480          |  | \$ 141,480          |  | Based on budgetary quote from Consultant  |  |
| 1.6.4 Post Closure Environmental Maintenance                      | Not included previously      |                          |             |       |                     | Consultant for Post-Closure Monitoring | hours | 960         | 200   | \$ 192,000          |  | \$ 192,000          |  | Based on budgetary quote from Consultant/Contractor   |  |
| 1.6.5 Radiation Surveys and Monitoring                            | Not included previously      |                          |             |       |                     | Consultant for Post-Closure Monitoring | hours | 521         | 194   | \$ 101,058          |  | \$ 101,058          |  | Based on budgetary quote from Consultant  |  |
| <b>Total Direct</b>   |                              |                          |             |       | <b>\$ 5,141,916</b> |  |       |             |       | <b>\$ 6,384,094</b> |  | <b>\$ 1,242,178</b> |  |   |  |

**This worksheet compares the 2013 Rev 1 estimate to the MMD-required 2020 updated cost estimate. It is for RGR internal use only. Expansion of the waste pile to 19.3 acres is expected but not yet approved. However, costs related to that expansion are included in this estimate.**

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| 2 Indirect Reclamation Costs |                                 | % of Direct Cost |  |  |  |                     |                                 |      |  |  |                     |                   |
|------------------------------|---------------------------------|------------------|--|--|--|---------------------|---------------------------------|------|--|--|---------------------|-------------------|
| 2.1                          | Mobilization and Demobilization | 2%               |  |  |  | \$ 102,715          | Mobilization and Demobilization | 4%   |  |  | \$ 255,363.77       | \$ 152,649        |
| 2.2                          | Contingencies                   | 10%              |  |  |  | \$ 513,575          | Contingencies                   | 15%  |  |  | \$ 957,614.12       | \$ 444,039        |
| 2.3                          | Redesign Costs                  | 6%               |  |  |  | \$ 308,145          | Redesign Costs                  | 3%   |  |  | \$ 191,522.82       | \$ (116,622)      |
| 2.4                          | Profit and Overhead             | 18%              |  |  |  | \$ 924,434          | Profit and Overhead             | 15%  |  |  | \$ 957,614.12       | \$ 33,180         |
| 2.5                          | Contract Management Fee         | 7%               |  |  |  | \$ 359,502          | Contract Management Fee         | 3%   |  |  | \$ 191,522.82       | \$ (167,979)      |
| 2.6                          | MMD Procurement Cost (2%-10%)   | 6%               |  |  |  | \$ 308,145          | MMD Procurement Cost (2%-10%)   | 3%   |  |  | \$ 191,522.82       | \$ (116,622)      |
| 2.7                          |                                 |                  |  |  |  |                     | Contract Administration         | 2%   |  |  | \$ 127,681.88       | \$ 127,682        |
| 2.8                          |                                 |                  |  |  |  |                     | Performance & Payment Bonds:    | 3%   |  |  | \$ 191,522.82       | \$ 191,523        |
| 2.9                          |                                 |                  |  |  |  |                     | Liability Insurance:            | 1.5% |  |  | \$ 95,761.41        | \$ 95,761         |
| <b>Total Indirect</b>        |                                 | 49%              |  |  |  | <b>\$ 2,516,515</b> |                                 | 50%  |  |  | <b>\$ 3,160,127</b> | <b>\$ 643,612</b> |

**NOTES:**  
 (1) RSM = RS Means Heavy Construction Cost Data 2019  
 (2) Cost includes loading and hauling 1 mi. RT  
 (3) Demolition cost per cubic foot = 2.5 cy excavator \$82.64/hr (RSM 01 54 33 20 0200) + Shear \$15.95/hr (RSM 01 54 33 20 0347) + two operators \$57.45/hr @ (RSM Crew A-3H) + labor crew \$84.1/hr (RSM Crew B-1) + Skid steer with grapple \$51.7/hr (RSM 01 54 33 4890), = \$349.29/hr, 200 cf/hr=\$1.75/cf. Volume base on 1 cf/sf of floor area.

|  |         |                     |         |                     |                     |
|--|---------|---------------------|---------|---------------------|---------------------|
| <b>Total Direct + Indirect</b>   |         | <b>\$ 7,652,260</b> |         | <b>\$ 9,544,221</b> | <b>\$ 1,891,961</b> |
| Location Cost Index - Cost adjustment to RS Means 2019 costs based on location versus national averages, |         | 0.879               |         | 0.877               |                     |
| <b>Total Direct + Indirect, Present Cost P, Location-adjusted</b>  |         | <b>\$ 6,726,337</b> |         | <b>\$ 8,370,282</b> | <b>\$ 1,643,945</b> |
| <b>New Mexico Gross Receipts Tax (NMGR)</b>  | 6.5625% | <b>\$ 441,416</b>   | 6.8125% | <b>\$ 570,225</b>   | <b>\$ 128,810</b>   |
| <b>Total Direct + Indirect, Present Cost P, Location-adjusted, with NMGR</b>                             |         | <b>\$ 7,167,753</b> |         | <b>\$ 8,940,507</b> | <b>\$ 1,772,754</b> |

**Escalation (Inflation)**

|                                      |                    |   |
|--------------------------------------|--------------------|---|
| Rate, i, per CPI-U, updated 4/2/2013 | 2.5%               | for all services except energy services, average of past 10 years, from <a href="https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category-line-chart.htm">https://www.bls.gov/charts/consumer-price-index/consumer-price-index-by-category-line-chart.htm</a> |
| Future cost, F=P*(1+i) <sup>n</sup>  | n, years from 2013 | <b>F, Future Cost</b>   |
| in 2020                              | 0                  | \$ 7,167,753  |
| in 2021                              | 1                  | \$ 7,346,947  |
| in 2022                              | 2                  | \$ 7,530,620  |

updated 11/30/20

|                    |                       |
|--------------------|-----------------------|
| 1.73%              |                       |
| n, years from 2020 | <b>F, Future Cost</b> |
| 0                  | \$ 8,940,507          |
| 1                  | \$ 9,095,178          |
| 2                  | \$ 9,252,524          |

The inflation rate is based on the year-to-year Consumer Price Index U. S. City Average for 2013 ( <ftp://ftp.bls.gov/pub/special.requests/cpi/cpi.txt>).  
 The average rate for the preceding five years (2008-2012) was 2.06, so 2% represents a reasonable estimate based on recent history as the basis for projection over the current standby permit period.

Based on average Consumer Price Index 2010-2019 ( <ftp://ftp.bls.gov/pub/special.requests/cpi/cpi.txt>).