

**MLR ANNUAL REPORT ADDENDUM**

**Sunnyside Mine and Mayflower Mill**

**File No. M-1977-378**

**April 2020 to March 2021**

**Sunnyside Gold Corporation ("SGC")  
San Juan County  
Silverton, Colorado**

**Submitted to:**

**Division of Reclamation, Mining and Safety  
Colorado Department of Natural Resources  
Denver, Colorado**

**ANNUAL REPORT FORM SUPPLEMENTAL INFORMATION FOR NUMBERED QUESTIONS**

8. As reported in the 2018 Annual Report, during 2018, three areas were released from the permit (Terry Tunnel, Sunnyside Basin and American Tunnel) reducing the permitted area to 64.23 acres (Tailings Pond No. 4). The remaining 64.23 acres has not been released, reclamation of the disturbed 60.81 acres has been completed in accordance with the approved reclamation plan and, therefore, the acres are no longer “affected lands.”

## **SITE RECLAMATION ACTIVITY**

**APRIL 2020 TO MARCH 2021**

### **TAILINGS POND No. 4** - (Map attached)

During the 2020 reporting year, no additional acreage was disturbed.

Activity at this site consisted of:

- 1) Monitoring and minor maintenance.
- 2) Conducting a study in accordance with an Administrative Settlement Agreement and Order on Consent with EPA of the Animas River from Arrastra Creek to the 14<sup>th</sup> Street Bridge in Silverton to determine what impact, if any, the Mayflower facilities may be having on water quality.
- 3) This work is discussed in the monitoring section. Monitoring the 23 monitoring wells placed on Tailings Pond No. 4 to characterize the tailings and depth to groundwater.
- 4) During 2020 Field Season, SGC constructed nine additional monitoring wells on Tailings Pond No. 4 to evaluate the facility further. These additional wells were approved by, Permit No. M-1977-378, Technical Revision Approval, Revision No. TR-32.

## **MONITORING** - Water Quality

Attached is water quality data for,

- 1) Mayflower Millsite area
  - a) Animas River above (AR3.5) and below (AR4) complex.

## **MONITORING** - Discussion of Water Quality Monitoring Results

### 1) Mayflower Millsite area

The Animas River monitoring results continue to exhibit higher downstream concentrations for manganese, while zinc concentrations are nearly identical between upstream and downstream monitoring points.

In accordance with an Administrative Settlement Agreement and Order on Consent with EPA, SGC implemented a study to assess what impact, if any, the Mayflower Area tailings ponds have on water quality in the segment of the Animas River between Arrastra Creek and the 14<sup>th</sup> Street Bridge in Silverton (A-68). The MLR monitoring points are within this segment.

The study included the following; continuation of the close spaced in-stream water quality samples, as well as sampling of visible inflow along the segment during high-flow and low-flow, in-stream sediment, pore water sampling, and the monitoring of the groundwater levels and water quality beneath the tailings ponds. Twenty-three of these monitoring wells are within SGC's MLR permit area on Tailings Pond No. 4 (refer to map).

The study results were similar to 2015 through 2019. In general, the highest concentration results in 2020 were during low flow. 2020 Field Season present unique challenges with the large drilling program. SGC elected Formation Environmental field specialist to collect permit samples during the season. ACZ Labs processed these water samples.