

Previously Mined Areas. A certified map showing the location of previously mined areas within the permit and adjacent areas is provided as Plates 3-9 and 3-10.

3.2.1 Site Selection and Preparation

Roads and pads that will be constructed in support of the mine will be constructed with a cut and fill technique. Topsoil resources will be conserved as outlined in Chapter 8. The surface facilities will be on privately owned surface.

3.2.2 Mine Portals

See Section 3.3.1.2 for mine portal descriptions. Portal locations are noted on Plate 3-1.

3.2.3 Surface Buildings and Structures

Locations of proposed surface buildings and structures are shown on Plate 3-1. Upon termination of mining operations, all structures will be removed and the area reclaimed as outlined in Section 3.5.

Surface Facilities. Plate 3-1 shows the locations of the following surface facilities:

- Buildings, utility corridors, and facilities to be used, including:
 - Mine Water Tank - one metal tank on concrete portal.
 - Culinary Water Tank - one metal tank on concrete pad,
 - Wastewater Tank - one fiberglass tank, backfilled,
 - Fuel Tank - metal tank and containment structure with fueling equipment,
 - Storage Building - portable building, to be used above ground or underground,
 - Transformer - portable, to be used above ground or underground,
 - Portals - see Section 3.3.1.2,
 - Conveyor - see subsequent portions of this Section,
 - Fan - metal structure containing a fan,
 - Substation (2) - metal structure sitting on gravel and concrete pad,
 - Roads - see Section 3.2.3.300,
 - Sedimentation Pond - see Chapter 7,
 - Temporary Office Trailer - mobile trailer,
 - Temporary Bath House Trailer - mobile trailer,
 - Parking Areas - soil pads,
 - Storage Areas - soil pads,
 - Crusher and Screen - metal structure on concrete pad/footings,
 - Emergency Escapeway - corrugated metal,
 - Dumpster(s) - metal, contractor owned,
- The area of disturbance at the mine mouth,
- Coal storage and loading facilities, and
- The explosive storage and handling facility, which includes approved explosive magazine(s).

Once every five years, during the low-flow season of the year (i.e., late summer or early autumn), each monitored spring and mine-inflow point will be sampled for baseline parameters. This list of parameters is the same as that provided in Table 7-2 plus the following:

Acidity	Molybdenum (dissolved)
Aluminum (dissolved)	Ammonia
Arsenic (dissolved)	Nitrate
Boron (dissolved)	Nitrite
Cadmium (dissolved)	Phosphate (ortho)
Copper (dissolved)	Selenium (dissolved)
Lead (dissolved)	Zinc (dissolved)

By the end of each month following each calendar quarter (i.e., April 30, August 31, October 31, and January 31), a report will be submitted to the Division summarizing monitoring activities during the previous quarter. Annual reports summarizing monitoring activity will also be submitted to the UDOGM. Quarterly reports will include field measurements, observations, and analytical results received during the previous quarter. Annual reports will include field measurements, observations, and analytical results received during the entire year. If any data indicate non-compliance with permit conditions, Hidden Splendor Resources will promptly notify the Division and take appropriate actions as provided for in R645-300-145 and R645-301-731.

7.1.6 Mitigation and Control Plan

As noted in Section 7.3 of this permit application, Horizon does not foresee any significant impacts to groundwater as a result of mining in the permit area. Inflows to the mine are anticipated to be small. A more complete discussion of potential groundwater impacts and mitigation measures is provided in Sections 7.3 and 3.4.8.2. Should a perennial or intermittent water resource be impacted by mining activities, both UDOGM and Water Rights will be contacted. Approval for a site-specific mitigation plan will be received from UDOGM and Water Rights prior to implementation of the plan.

Continued monitoring by the mine of the surface waters and seeps and springs flows in the permit and adjacent areas have shown no major impacts due to mining activities. It is the operators position that the water consumed in operating the Horizon Mine is not depleting surface water sources. In fact, there is an overall net gain to local river systems discharging to the Colorado River as a result of the mine's discharge.

The Permittee will replace the water supply of any land owner if such a water supply proves to be contaminated, diminished or interrupted as a result of the mining operations. First, a determination will be made by the Division in accordance with R645-301-731.800 as to whether or not the water supply in question has been contaminated, diminished, or interrupted as determined from baseline hydrologic and geologic information. Then, in accordance with Regulation R645-301-525.510, Horizon Mine will correct any material damage resulting from subsidence caused to surface lands (which includes water rights), to the extent technologically and economically feasible, by restoring the land to a condition capable of maintaining the value and reasonably foreseeable uses that it was capable of supporting before subsidence damage. Negotiations will be held with the water right holders to determine the best plan of action and implementation of water replacement.

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