

Engineering, Design, and Construction Services for the Marigold Mine

Valmy, Nevada

Client

SSR Mining Co.

Timeframe

1998-Present

Contract Amount

\$1,000,000+

Personnel

Monte Christie	Craig Kunkel
Jason Hefner	Basil Orechwa
Jake Russell	Bryan Fritzler
David Romo	Ben Dell-Era



The GLA project team has been providing services to the owners of the Marigold Mine for over 20 years.

GLA prepared the design for the septic system and a lateral extension of a waterline to the new Access Building for the mine. This work included coordinating the field percolation and mantle testing of the septic leach field, sizing of the septic tank and leach field, design layout of the septic and water systems, preparation of the construction documents, and permits as well as construction observation and preparation of the as-built report.

In addition, GLA has design two stormwater runoff diversion channels that route run-on from adjacent areas from the south side of the site towards the north. The south-western (Trout Creek) and south-eastern channels were designed as rip-rap lined trapezoidal channels that convey 1,860 cfs and 910 cfs, respectively.

Other services that the project team has provided include geotechnical characterization, the preparation of design and construction documents and CQA for multiple phases of construction of the heap leach facility totalling over 300 acres, process ponds design and CQA, as well as other engineering services including design, CQA, and closure of a tailings storage facility. GLA has worked with Marigold to optimize the leach pads depending upon their current needs and gold prices.

Project Highlights

- Large gold mine in rural Nevada
- GLA prepared septic system and lateral extension of waterline to new Access building
- Coordinated percolation and mantle testing, sizing of septic tank, and leach field
- Designed layout of septic and water systems
- Prepared construction-level documents and permits and provided construction observation
- Stormwater engineering includes the design of two stormwater run-off diversion channels
- Design as rip-rap lined trapezoidal channels
- Other services include geotechnical engineering, heap leach pad and tailings dam design and CQA, as well as other on-call engineering services