



Greenstone Gold Mines (GGM) is a 50/50 partnership between Centerra Gold Inc. and Premier Gold Mines Limited for the joint ownership and development of the Hardrock, Brookbank and Viper properties. GGM is equipped with an experienced Management Team possessing 20-30 years of mine development and operations experience.

GGM's objective is to become an environmentally and socially responsible gold producer.

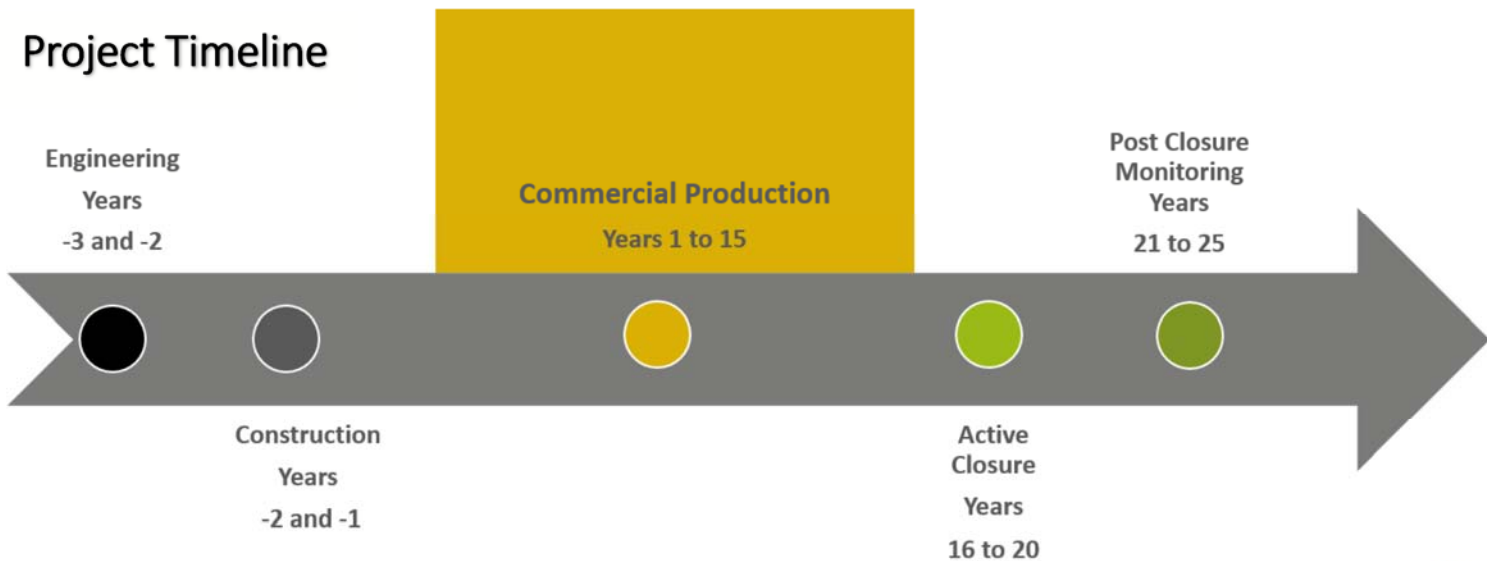
- Open Pit Life of Mine—14.5 years
- Gold production—4.2 million ounces at 1.02 g Au/t
- Gold price assumption—US\$1,250/oz (exchange rate \$1.30 CAD/US \$1.00)
- Mill throughput design — 27,000/t of ore per day with the possibility to extend up to 30,000/t per day
- Initial capital cost of \$1.25 billion
- After-tax payback period of 4.5 years
- Average of 450 employees over the life of mine

## Hardrock Project Site



The Hardrock Gold Deposit is located approximately 275 kilometres northeast of Thunder Bay, Ontario. It is situated in the Ward of Geraldton part of the amalgamated Municipality of Greenstone. The Project is located on a site that was actively mined in the 1930-1970s.

## Project Timeline



# Construction Phase 2 Years

GGM is committed to continuous improvement in health and safety practices, programs and training.

Construction will be performed by qualified contractors.

- 3,400,000 hours of work, with a peak construction and pre-production labour force of ~975 people.
- Local suppliers and contractors will be utilized wherever possible based on quality, schedule, cost-effectiveness, aboriginal participation and proximity to site.
- A contractor operated temporary construction camp will house construction workers.
- Construction is planned on a 7 day 10-hour schedule.



Hardrock Project—Planned Building Layout from our 3D Engineering Model

## What are we building for \$1.25 billion?

### PROCESS PLANT

Capability of processing up to 30,000 tonnes of ore per day

### POWER GENERATION

Providing 40 MW of power required for the Project

### TAILINGS AND WATER MANAGEMENT FACILITIES

A tailings management facility designed to collect runoff water for use in the process plant. Collection and treatment of runoff water from waste rock storage areas and the plant site

### SUPPORTING INFRASTRUCTURE

Infrastructure such as roads, maintenance facilities, warehouses and storage facilities, offices, recycling and sorting facility, potable water system, sewage system and fire water systems

### RELOCATION OF EXISTING FACILITIES

Highway 11, Hydro One Substation and the OPP Station

### FUTURE OPERATIONS TEAM

Training, systems and procedures

### MINING

Mining of ~ 42 million tonnes of ore during the pre-production period

# Operations Phase

## 15 Years

### MINING FLEET

- 30 Haul Trucks (200t)
- 2 Hydraulic Shovels (26m3)
- 1 Hydraulic Shovel (19m3)
- 2 Front Loaders (21m3)



GGM 3D table top model is available for viewing at the Community Relations office.

## Conventional Open Pit operation with hydraulic shovels and mining trucks

- Total tonnage mined at 691 million tonnes
- 68 million tonnes per year at peak production
- Approximately 4 tonnes of waste for every 1 tonne of ore

### MILLING & PROCESSING OPERATIONS

The Mill is planned to operate 24 hours/day for 365 days per year at 92% availability.



## TOP 5 MOST FREQUENTLY ASKED QUESTIONS

### 1. HOW MANY JOBS WILL BE CREATED?

Peak total operating workforce is approximately 550 employees with an overall average of ~450 employees over the life of mine.

### 2. WHAT KIND OF JOBS WILL BE AVAILABLE?

- Mine Operations  
400 employees
- Process Plant & Power Plant  
100 employees
- General & Administration  
50 employees

### 3. WILL THE LOCAL ECONOMY BENEFIT FROM PROJECT SPENDING?

Over the life of mine, GGM will spend approximately \$500 million on goods and services locally.

### 4. WHAT PRICE OF GOLD DOES GGM NEED TO REMAIN OPERATIONAL?

The Feasibility Study has estimated that GGM requires \$1,250 (US) per ounce in order to repay the capital expenses (CAPEX) of \$1.25 (CDN) billion dollars. It is estimated that it will take 4.5 years to repay. Once the CAPEX is repaid GGM will require \$750 (US) per ounce for sustaining costs in order to remain operational.

### 5. WHEN WILL GGM MAKE A DECISION ABOUT THE HARDROCK PROJECT?

The GGM Board will make a decision on the future of the Hardrock Project following regulatory approval.

# Active Closure 5 Years and Post Closure Monitoring 5 Years

Before mining operations can begin, MNDM requires that a Closure Plan with Financial Assurance be submitted under the Mining Act. GGM has developed a Conceptual Closure Plan as part of the EIS/EA providing an opportunity to discuss the closure approach and inform initial costing. After the closure activities have been carried out, a post-closure monitoring program will continue to verify that the closure objectives have been met.



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## What will Active Closure include?

- Removal of construction-related buildings, laydown areas and access roads;
- Stabilization and re-vegetation of Waste Rock Storage Areas;
- Rehabilitation of north cell of TMF after Year 7 consisting of a vegetated store and release cover with runoff from the cell directed to the south cell;
- Backfilling of the eastern portion of the open-pit and
- Removal of hazardous and non-hazardous waste materials from the site.

## Post-Closure Monitoring

Monitoring will assess the physical, chemical and biological stability of the Project and confirm that the Closure objectives have been met and the Project has reached a condition suitable for moving to closed out status as defined under the Mining Act.

Monitoring activities will include:

- Water quality (surface and groundwater) and
- Physical stability of embankments and the open pit slopes.

COMMUNITY RELATIONS  
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**GREENSTONE GOLD**  
MINES

The Community Relations office serves as a key location for community stakeholders to meet with the Community Relations team, receive updates and discuss issues of interest on the project.

Drop by and visit us. Your comments are important to us!

MONDAY TO FRIDAY

8:30 a.m. to 4:30 p.m.

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