

Preliminary Economic Assessment of Katodawa Creek Zone Cu-Pb-Zn-Ag Deposit, Mattagami Lake Area, Ontario

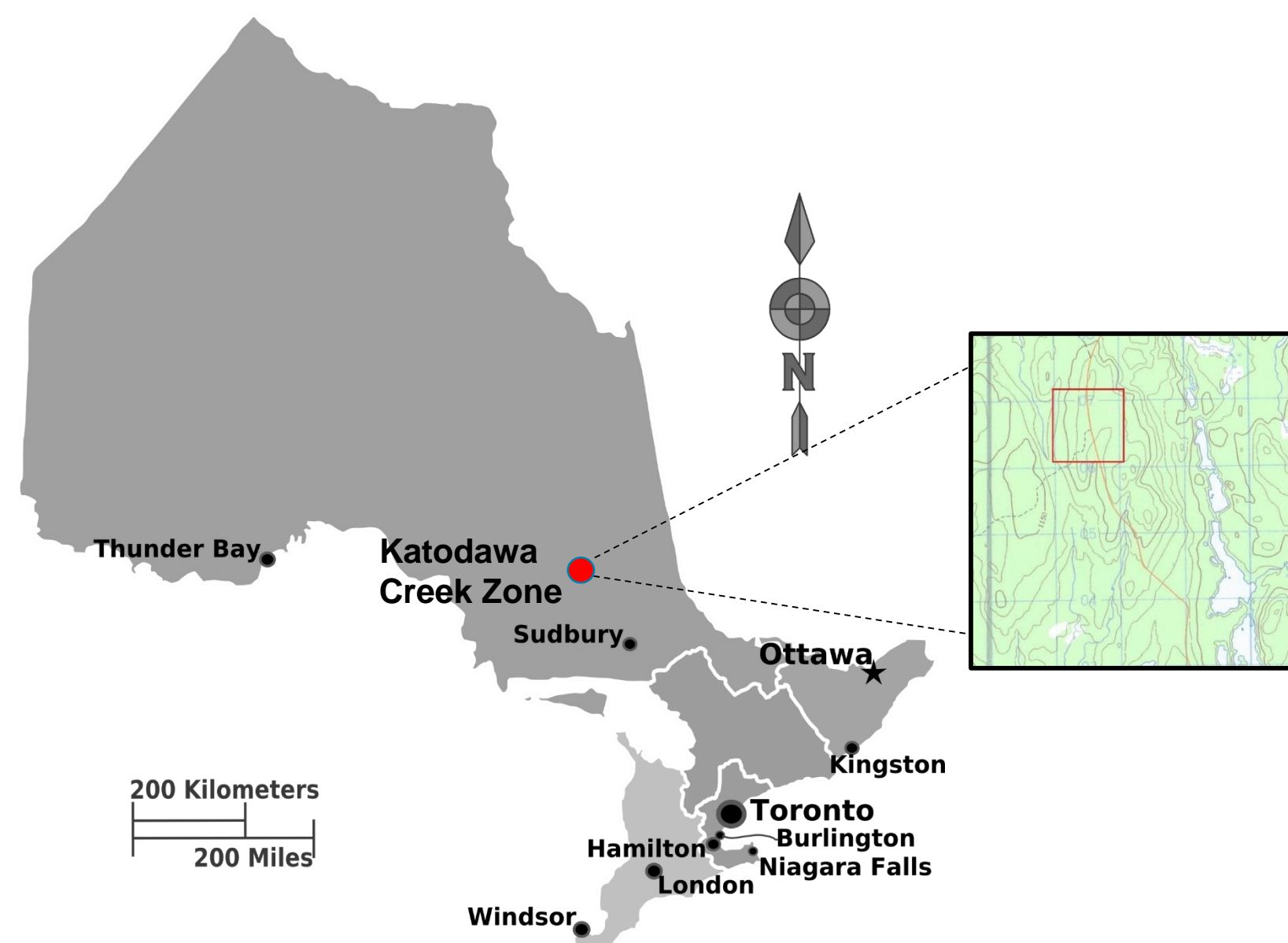
Department of Civil and Resource Engineering

Introduction

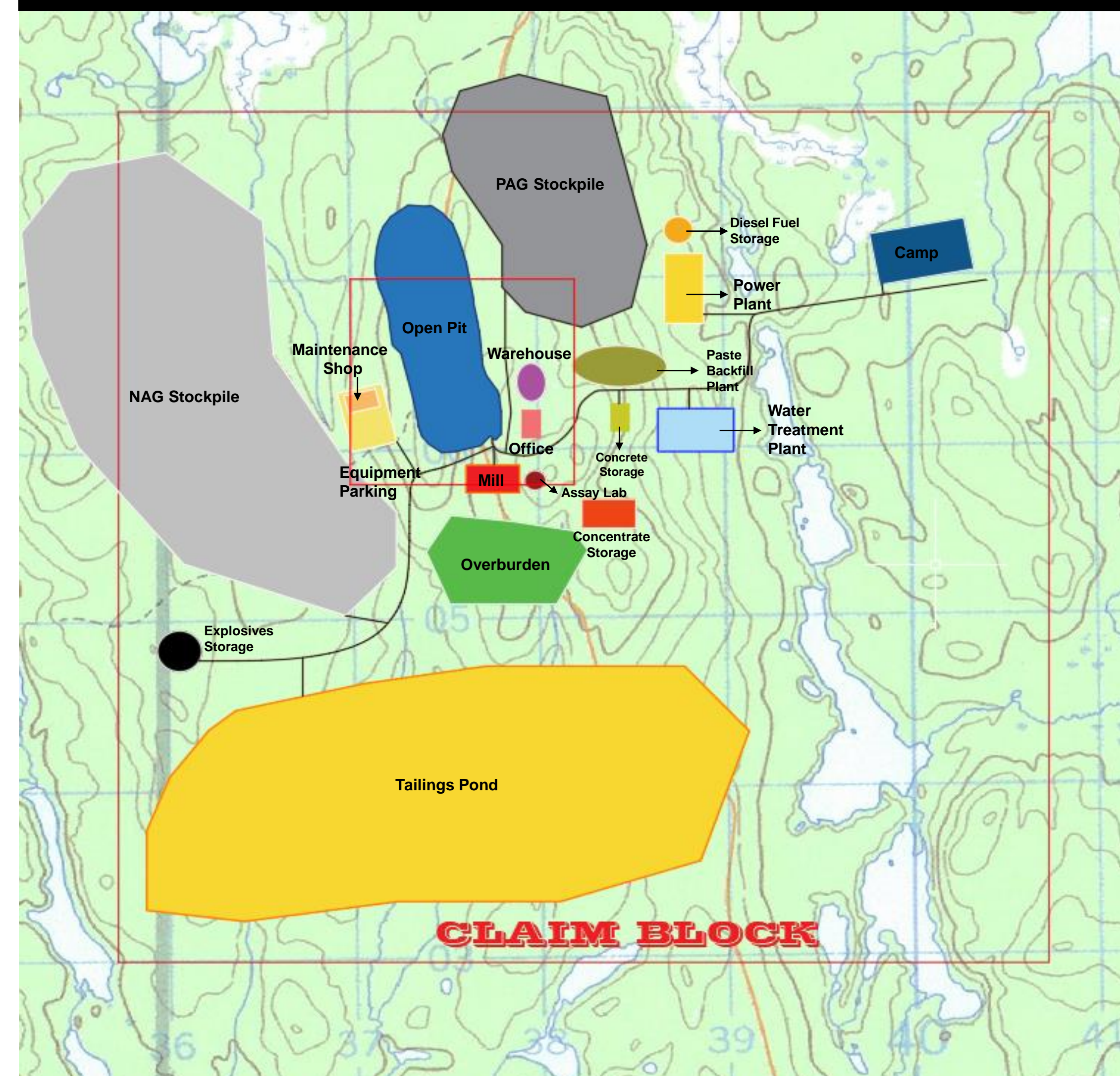
The preliminary feasibility study was conducted by the Huntress Mining company for a Cu-Pb-Zn-Ag deposit in the Katodawa Creek zone, Mattagami Lake, Ontario. This project includes mineral resource estimation, future work layout and schedule, economic assessment and future recommendations.

Project Location

The claim block, approximately 5 km by 5 km, is located in the Mattagami Lake area of Ontario's Sudbury district and is about 80 km southwest of Timmins and 205 km northwest of Sudbury.

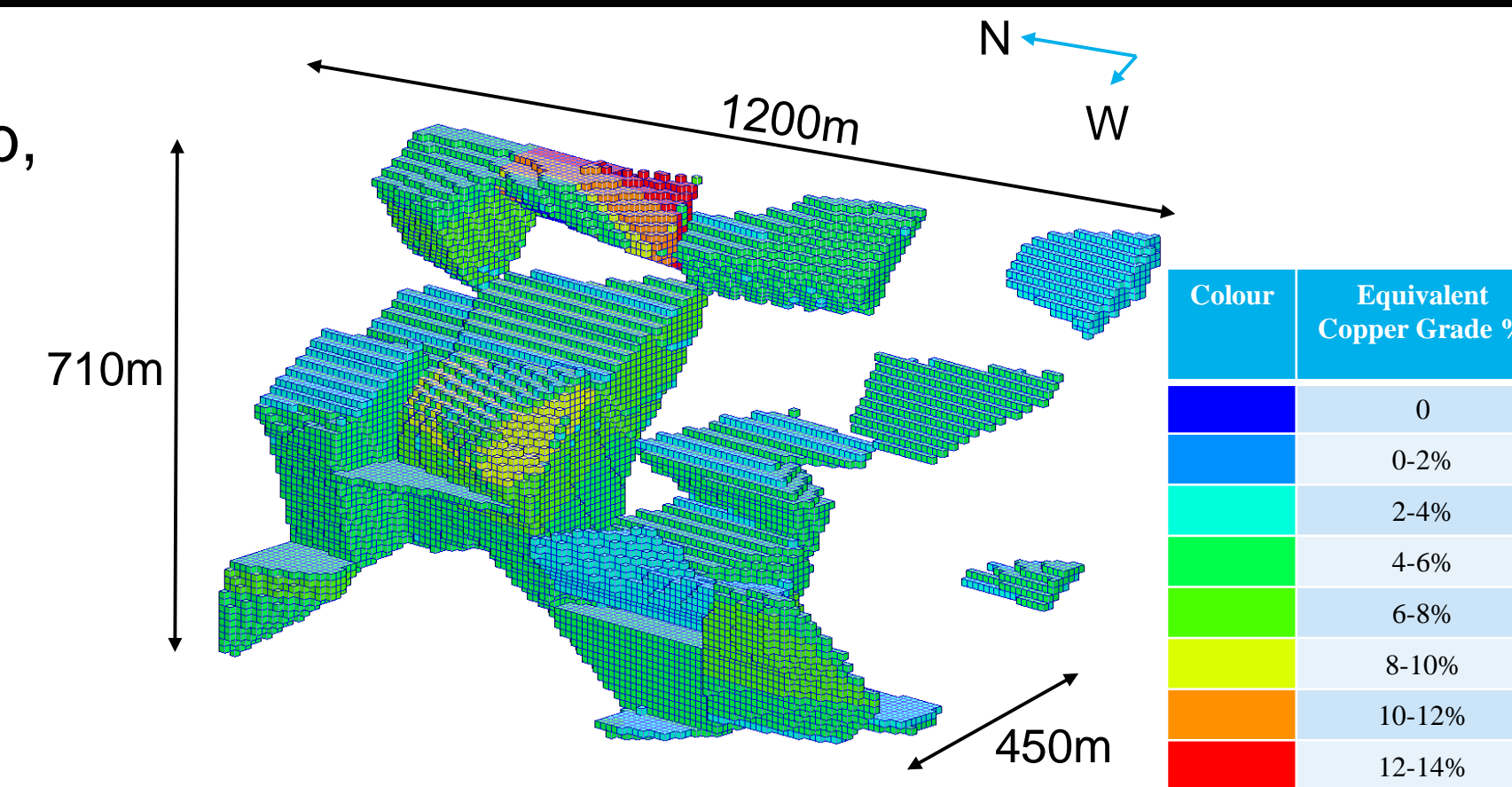


Surface Infrastructure



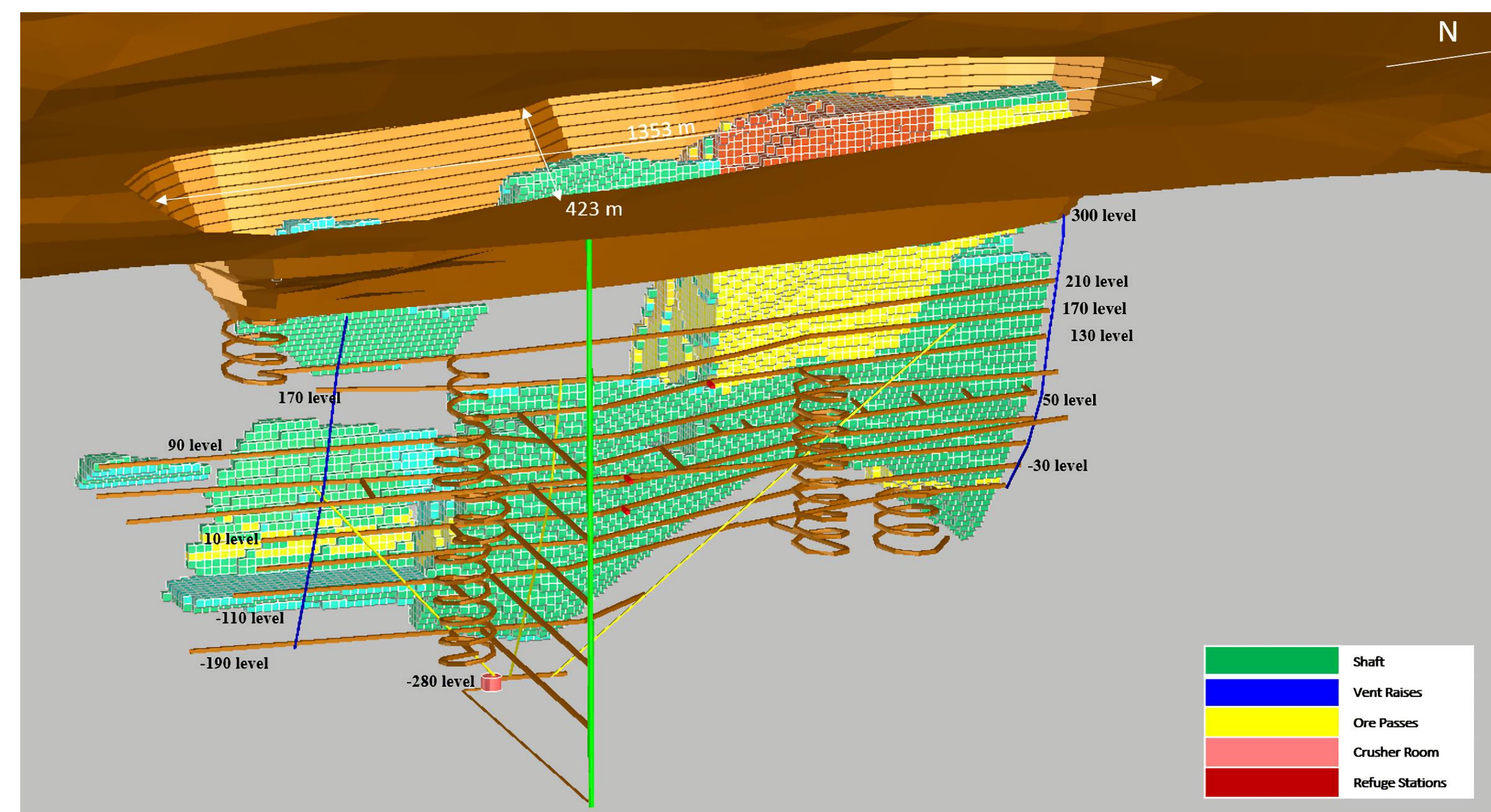
Mineral Resource Estimation

- Average Grades: 2.94% Cu, 3.03% Pb, 3.35% Zn, 91.34 g/t Ag
- Cutoff Grade: 3.71% eqCu
- Total Tonnage: 157 Million Tonnes

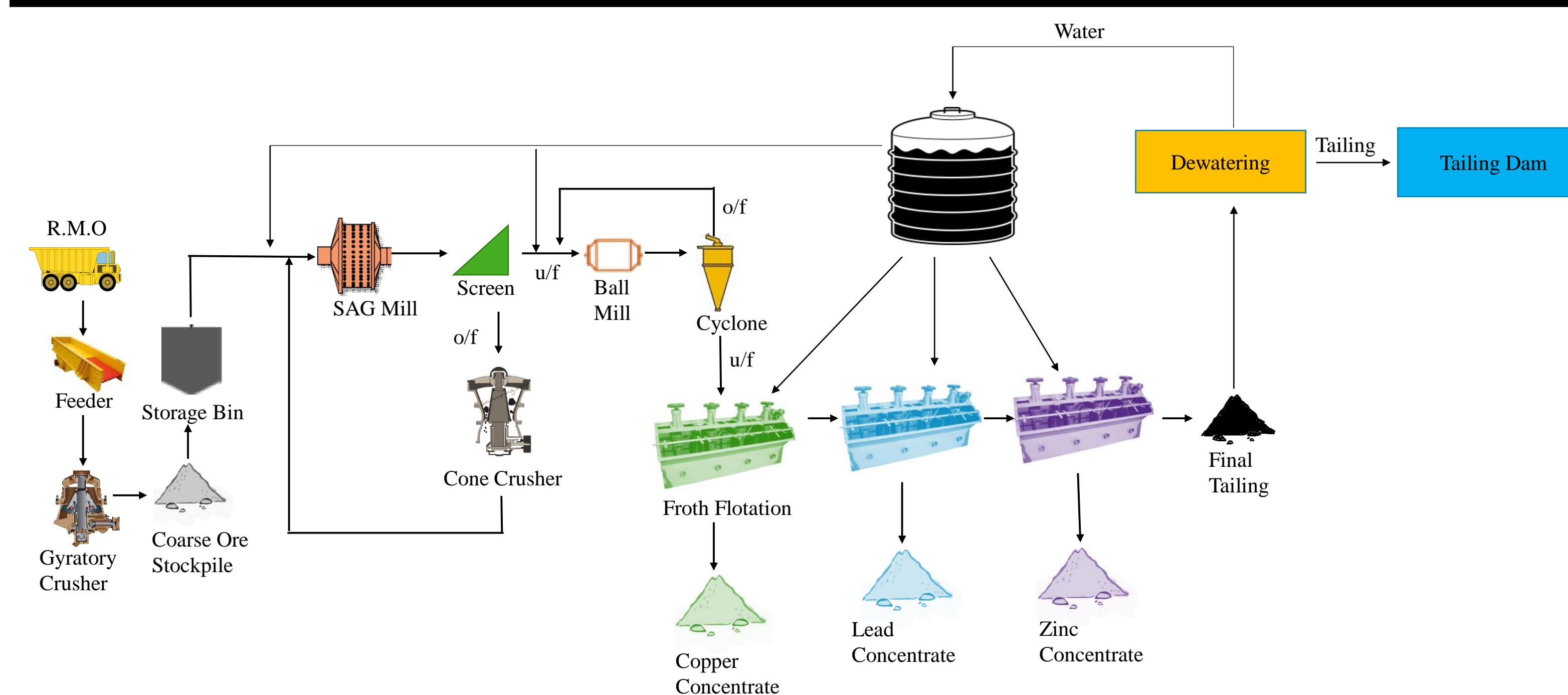


Project Layout

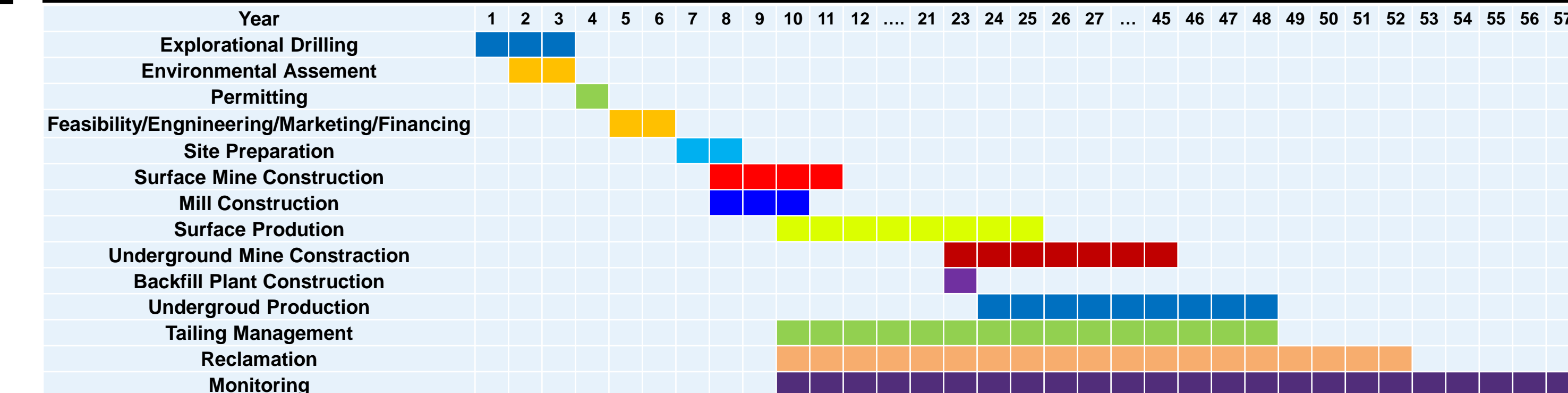
- Surface Mine Stripping Ratio: 4.3:1
- Underground Mining Method: Long-Hole Open Stope Mining with Backfill
- Production Rate: 12,000 tpd
- Mine Life: 57 years



Mineral Processing



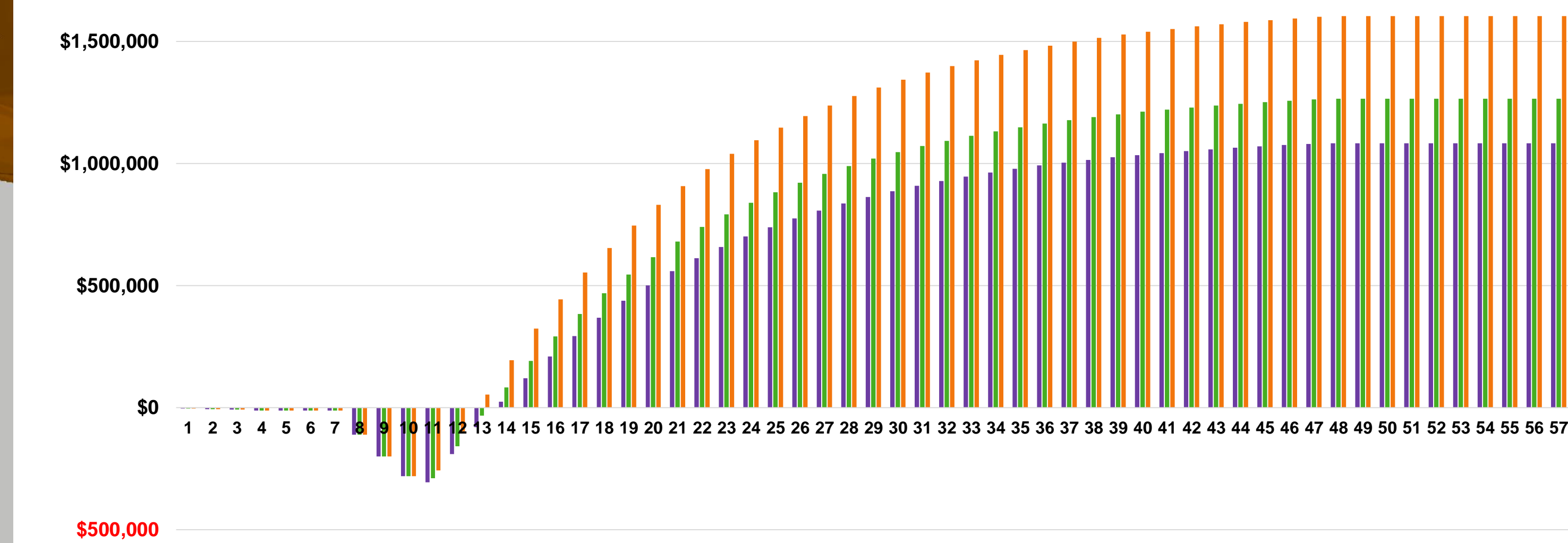
Project Schedule



Economic Assessment

- Cu - \$5900/t, Pb - \$1950/t, Zn - \$2450/t, Ag - \$14/troy.oz
- Net Present Value(NPV): 1.08 billions
- IRR: 30%
- Discounted Payback Period: 14 years

Cumulative Discounted Cash Flow
Low Price Middle Price High Price



Reclamation and Closure

- Wet cover for tailing dam
- Site revegetation
- Open pit backfilled with waste rock
- Sealing of all drill holes and surface openings
- Water management systems

Recommendations

- More exploratory drillings
- More geotechnical drillings
- Hydrogeological studies
- Site investigations
- More land claims
- Metallurgical tests

References

Vergne, J. d. (2014). *Hard Rock Miner's Handbook*. Edmonton: STANTEC CONSULTING.
Wetherelt, A., & Wielen, K. P. (2011). Introduction to Open-Pit Mining. In P. Darling, *SME Mining Engineering Handbook* (pp. 857-876). Society for Mining, Metallurgy, and Exploration, Inc.