



Ground Improvement and Specialty Piling Contractors

# Project Summary

KLG Macassa Tailings Dam  
Kirkland Lake, Ontario

*The Premier Design-Build Geotechnical Contractor™*

## Design – Build, Deep Soil Mixing (DSM)



### Project Description:

AGI was contracted to improve the settlement performance and mitigate the potential for slope instability of a new proposed tailings dam for a gold mine in Kirkland Lake, Ontario. Access for the project required significant clearing and grading out to the remote site to transport the large drilling equipment and cement deliveries to the site. AGI design and constructed a DSM key to meet the performance criteria for the project.

### Application:

- ❖ Limit settlement of the proposed dam
- ❖ Provide shear resistance at the dam toe to improve factor of safety against slope instability

### Geotechnical Conditions:

- ❖ Layer of surficial peat
- ❖ Soft silts and clays to 55'
- ❖ Bedrock materials below 55'

### Design-Build Contractor:

AGI Foundation Contractors (AGI)

### Owner:

Kirkland Lake Gold

### General Contractor:

Dube Excavation

### Geotechnical Engineer:

Wood Environment and Infrastructure