LITHOLOGY

Pleistocene

Massive Subglacial Diamicton (till)

Diamicton with minor variations in fine components, based on in-field descriptions and observations.

- CL — Red-brown (2.5 YR 4/4) silty clay with trace fine sand, trace to little fine gravel.
- CL/ML — Red-brown (2.5 YR 4/4) silty clay/clay silt with trace to little fine-coarse sand and trace to little fine-medium gravel.
- ML — Red-brown (2.5 YR 4/4) clayey to sandy silt with trace to little fine-coarse gravel and trace to fine-coarse sand.
- ML/SM — Red-brown (2.5 YR 4/4) silty fine sand to sandy silt with trace to little fine-medium gravel.

Subglacial Meltwater Deposits

- SM — Reddish-brown (2.5 YR 3.5/4) silty very fine sand with trace gravel and shale fragments
- SP/SM — Fine-coarse poorly to well sorted sand with gravel and little silt.

Middle Proterozoic

Oronto Group

- NONESUCH SHALE — Black, Gray, Green, and Brown lithic siltstone, shale and sandstone.
- (Sandstone) COPPER HARBOR CONGLOMERATE (Conglomerate) — Red lithic conglomerate and sandstone; mafic to felsic volcanic pebbles/cobbles/boulders; generally becomes finer grained upward.

LEGEND

- Water Surface Elevation
- Well Screen (Monitoring Well)
- Soil Sample-Grain Size Analysis
- CW-08-XX Boring Designation
- MW-08-XX Monitor Well Designation
- G = Glacial
- R = Rock
- S = Shallow

NOTES:

1. DIAMICTON = POORLY SORTED DEPOSITS COMPOSED OF GRAVEL CLAST WITHIN A FINER GRAINED MATRIX.
2. SOIL SYMBOLOGY FROM AMERICAN SOCIETY FOR TESTING MATERIALS, 1985, D 2487-83, "CLASSIFICATION OF SOILS FOR ENGINEERING PURPOSES. ANNUAL BOOK OF ASTM STANDARDS." VOL.04.08, PP. 395-408.
3. ROCK SYMBOLOGY FROM FEDERAL GEOGRAPHIC DATA COMMITTEE, 2006, FGDC STD-013-2006, "DIGITAL CARTOGRAPHIC STANDARD FOR GEOLOGIC MAP SYMBOLIZATION.
4. 2.5 YR 4/4 - MUNSELL SOIL COLOR CHARTS, YEAR 2000 REVISED WASHABLE EDITION.

VERTICAL SCALE 1"=50 FEET

HORIZONTAL SCALE 1"=200 FEET
VERTICAL EXAGGERATION 4X

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FIGURE 202.2.3-14d
GEOLOGIC CROSS SECTION
D-D'

ORVANA RESOURCES U.S. CORP.
COPPERWOOD PROJECT
GOGEBIC COUNTY, MICHIGAN

PROJECT NUMBER 60179066	SCALE: AS SHOWN