## DEPARTMENT OF NATURAL RESOURCES

## Minerals Exploration Plan on State Nonferrous Metallic Minerals Leases

Submitted by AngloGold Ashanti Minnesota on September 7, 2018 and summarized here by the DNR Division of Lands and Minerals

**Narrative:** AngloGold Ashanti Minnesota (AGAM) submitted a project plan to explore for metallic mineral deposits by drilling this fall and winter. AGAM plans to drill exploratory borings at 26 sites in northeastern Itasca County. The exploration areas are about 7 miles west and about 4 miles south of Togo, Minnesota (Figure 1-3). AGAM will use rotosonic drilling to drill exploratory borings. Rotosonic drilling uses high frequency vibration of the drill bit to advance and collect cores of soils, glacial sediments, and a short length of the underlying bedrock. The borings will end shortly after the top of bedrock is encountered. No drilling fluids are circulated during drilling, so sumps are unnecessary. AGAM plans to permanently seal each boring immediately after drilling is complete.

State nonferrous metallic mineral lease ids: Drilling is proposed on 16 leases: MLMB200062, MLMB200066, MLMB200067, MLMB200068, MLMB200071 through MLMB200075, MLMB200078, MLMB200101, MLMB200133 through MLMB200136, and MLMB200197.

**Public Land Survey location:** Sections 16, 20, 21, 22, 25, 26, 27, 28, 29, and 33 of T61N R22W; Section 6 of T61N R23W; Sections 28, 29, 30, and 31 of T62N R23W; and Section 36 of T62N R24W.

Types of exploration activity: Exploratory borings (rotosonic drilling).

**Expected time period of activity:** The proposed exploration program will begin this fall and conclude before spring breakup. No drilling will take place during the 2018 deer hunting season (11/3/18 to 11/18/18).

**Access:** AGAM will use existing public roads, state forest access roads, and other access trails to get to the drill sites. Mowing and brushing are anticipated at the boring sites. AGAM is not proposing new roads or trails.

**Surface ownership:** Pending DNR approval, which may include stipulations, AGAM will have the right to explore as described in the exploration plan on state-owned surface lands. AGAM will coordinate with the Itasca County Land Department, Molpus/Meriwether Minnesota Land, as well as any other affected private landowners for access to tax-forfeited and private lands.

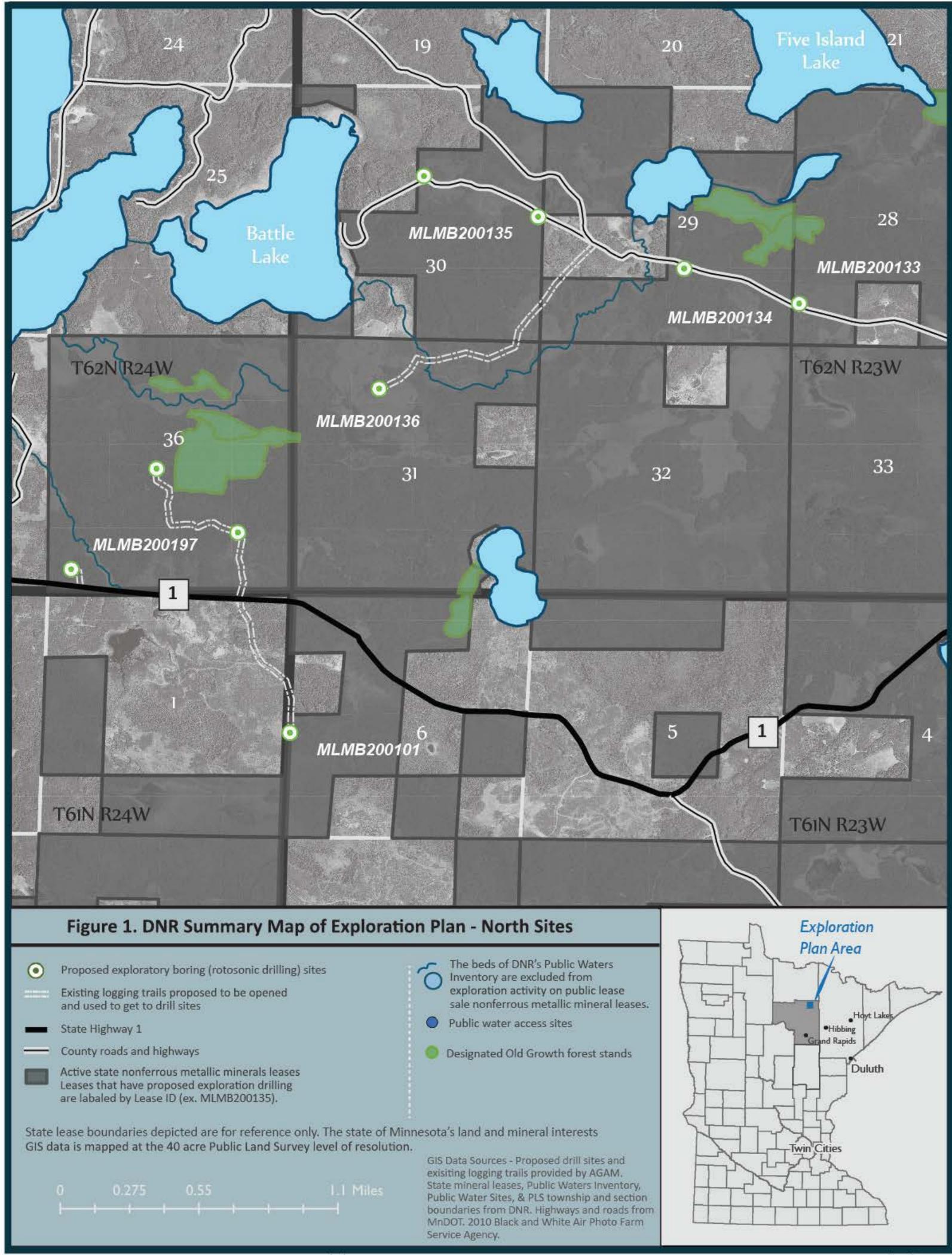
Explorer contact: Jonathan Gorman, (303) 889-1461 or jgorman@anglogoldashanti.com

DNR Summary Report for AngloGold Ashanti Minnesota, Exploration Plan Submitted on September 7, 2018 and Published by DNR's Lands and Minerals Division on September 13, 2018

This report is posted on the DNR's exploration plan webpage.

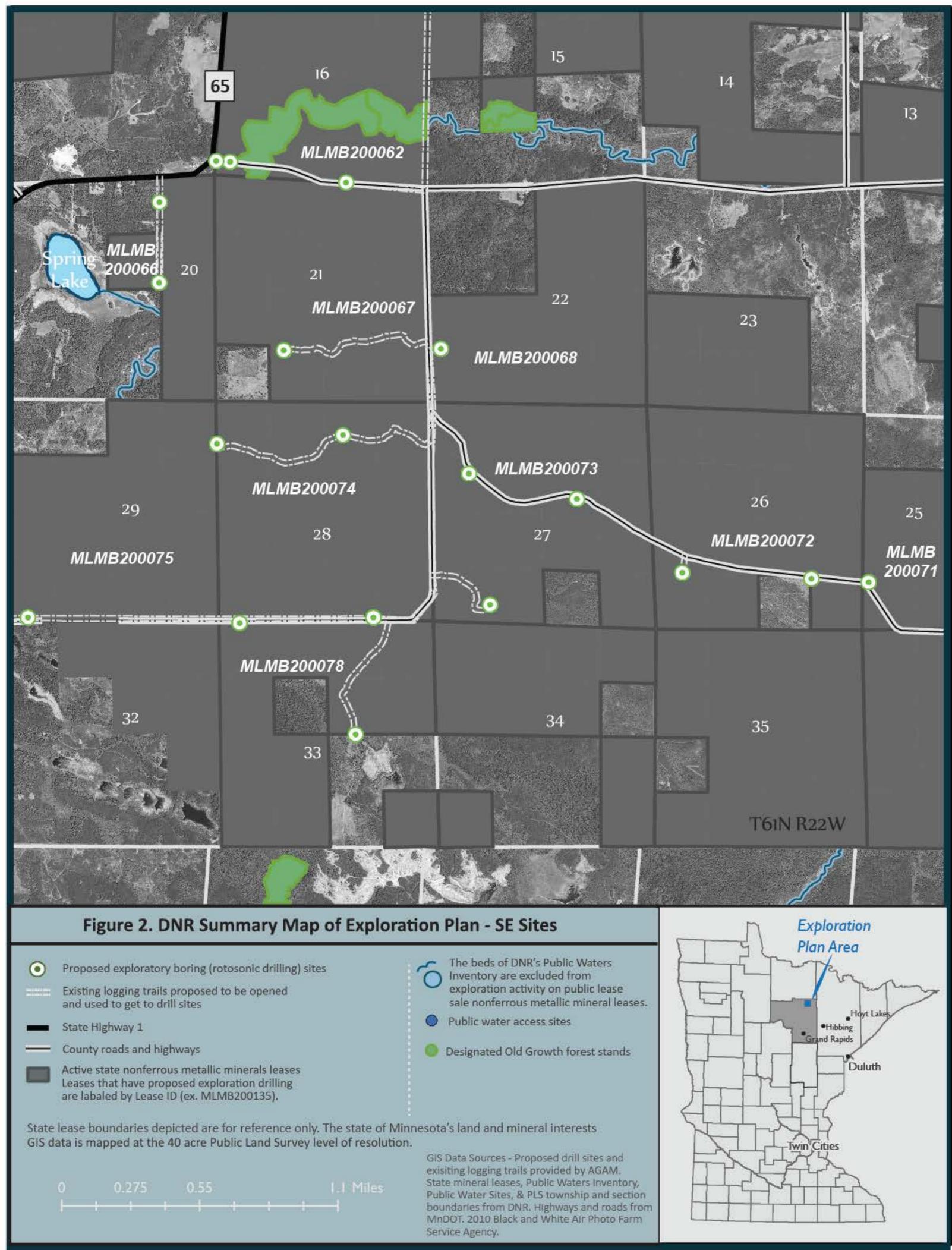
## Maps and Data Disclaimer

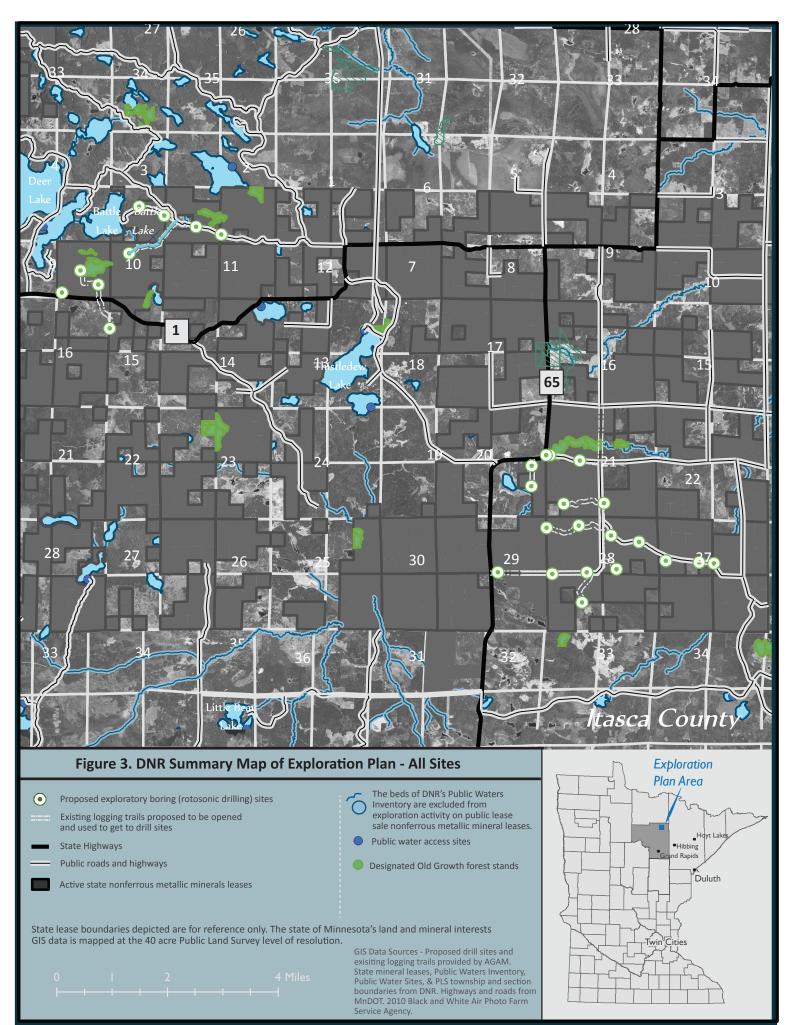
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AngloGold Ashanti Minnesota Inc., Exploration Plan 9/7/2018

Figure 1 by DNR - Lands and Minerals Division 9/11/2018





AngloGold Ashanti Minnesota Inc., Exploration Plan 9/7/2018

Figure 3 by DNR - Lands and Minerals Division 9/11/2018