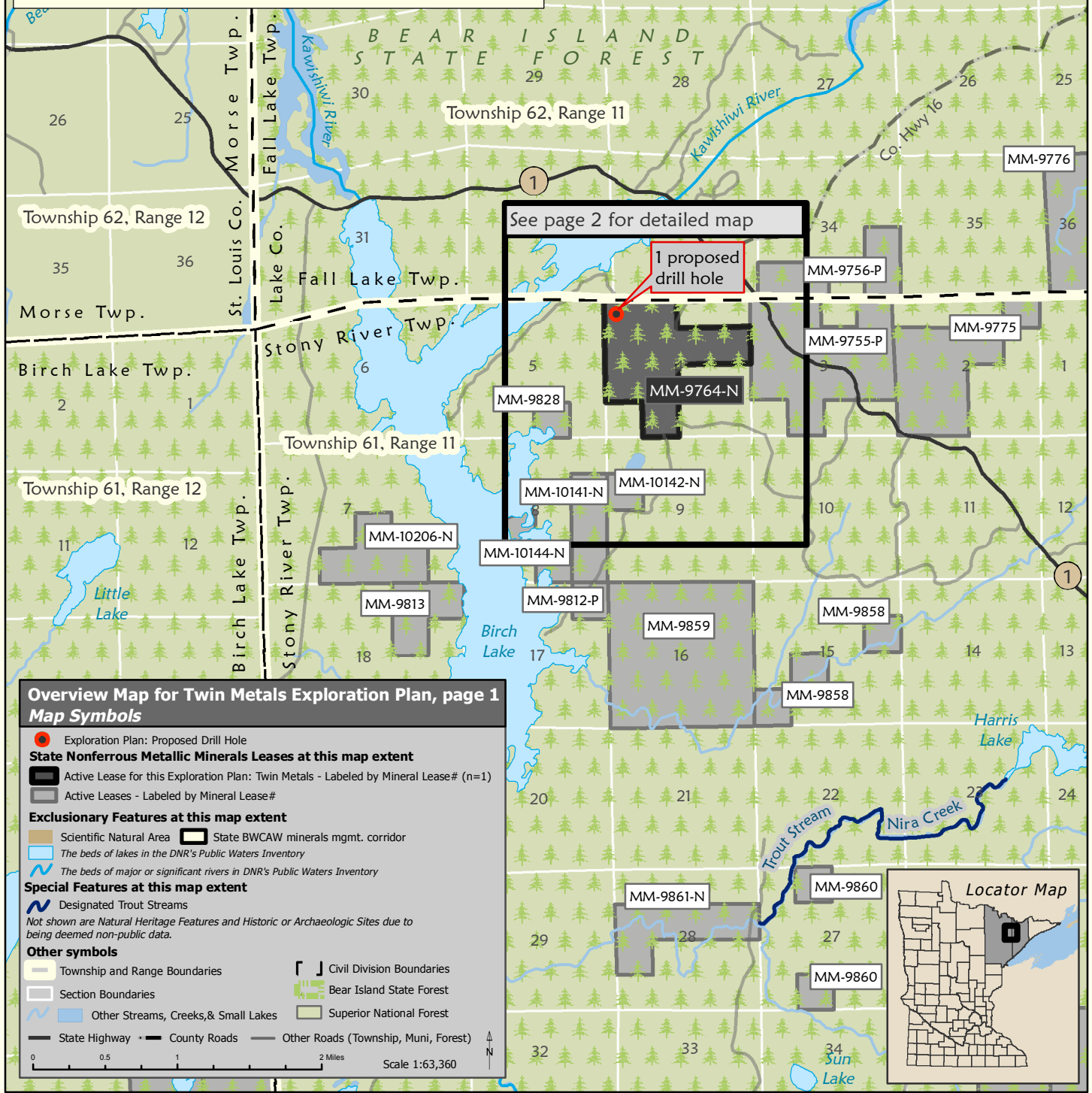


**Overview Map for Twin Metals Exploration Plan, page 1**  
**DNR Submittal Plan Date: 10/18/2013**

*Purpose:* The locations of proposed exploration activities by state mineral lessees in a standard format and legend are shown. Map by DNR, Lands and Minerals Division, November 2013. Director, Jess Richards.  
*Date Proposal Submitted to DNR:* October 18, 2013  
*Lessee:* Twin Metals Minnesota LLC  
*Lessee Contact Person:* Kevin Boerst  
*State Mineral Lease Number:* MM-9764-N  
*Location on Public Land Survey:* T61N-R11W, Section 4, Lake County  
*Type of Activity:* Exploratory boring  
*Time period for activity:* Begin November 7, 2013 and continue until completed within 180 days  
*New Access Trail Location:* None. The existing access trail will be used.  
*Narrative:* The explorer has proposed to drill one exploratory boring along an existing access trail on a state mineral lease with state surface ownership. This activity will have a temporary impact on less than 1 acre.

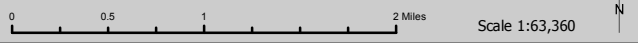


See page 2 for detailed map

1 proposed drill hole

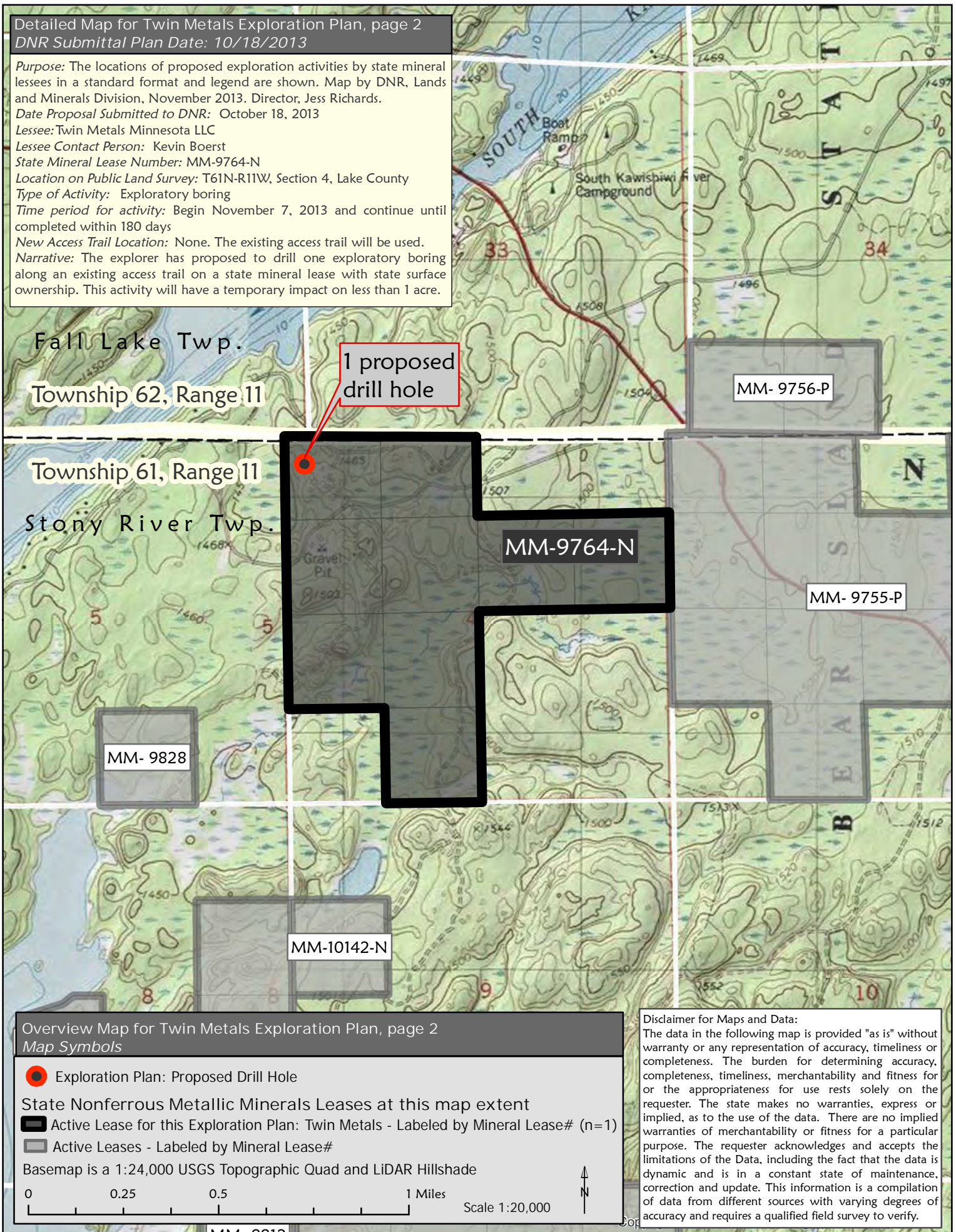
**Overview Map for Twin Metals Exploration Plan, page 1**  
**Map Symbols**

- Exploration Plan: Proposed Drill Hole
- State Nonferrous Metallic Minerals Leases at this map extent**
  - Active Lease for this Exploration Plan: Twin Metals - Labeled by Mineral Lease# (n=1)
  - Active Leases - Labeled by Mineral Lease#
- Exclusionary Features at this map extent**
  - Scientific Natural Area
  - State BWCAW minerals mgmt. corridor
  - The beds of lakes in the DNR's Public Waters Inventory
  - The beds of major or significant rivers in DNR's Public Waters Inventory
- Special Features at this map extent**
  - Designated Trout Streams
- Not shown are Natural Heritage Features and Historic or Archaeologic Sites due to being deemed non-public data.*
- Other symbols**
  - Township and Range Boundaries
  - Section Boundaries
  - Other Streams, Creeks, & Small Lakes
  - State Highway
  - County Roads
  - Other Roads (Township, Muni, Forest)
  - Civil Division Boundaries
  - Bear Island State Forest
  - Superior National Forest



**Detailed Map for Twin Metals Exploration Plan, page 2**  
**DNR Submittal Plan Date: 10/18/2013**

*Purpose:* The locations of proposed exploration activities by state mineral lessees in a standard format and legend are shown. Map by DNR, Lands and Minerals Division, November 2013. Director, Jess Richards.  
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*State Mineral Lease Number:* MM-9764-N  
*Location on Public Land Survey:* T61N-R11W, Section 4, Lake County  
*Type of Activity:* Exploratory boring  
*Time period for activity:* Begin November 7, 2013 and continue until completed within 180 days  
*New Access Trail Location:* None. The existing access trail will be used.  
*Narrative:* The explorer has proposed to drill one exploratory boring along an existing access trail on a state mineral lease with state surface ownership. This activity will have a temporary impact on less than 1 acre.



**Overview Map for Twin Metals Exploration Plan, page 2**  
**Map Symbols**

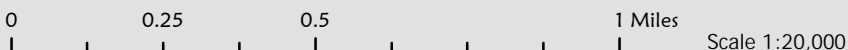
Exploration Plan: Proposed Drill Hole

State Nonferrous Metallic Minerals Leases at this map extent

Active Lease for this Exploration Plan: Twin Metals - Labeled by Mineral Lease# (n=1)

Active Leases - Labeled by Mineral Lease#

Basemap is a 1:24,000 USGS Topographic Quad and LiDAR Hillshade



**Disclaimer for Maps and Data:**

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