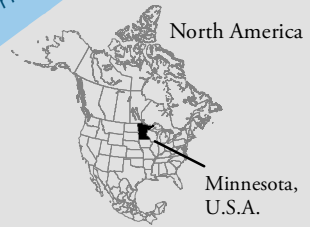
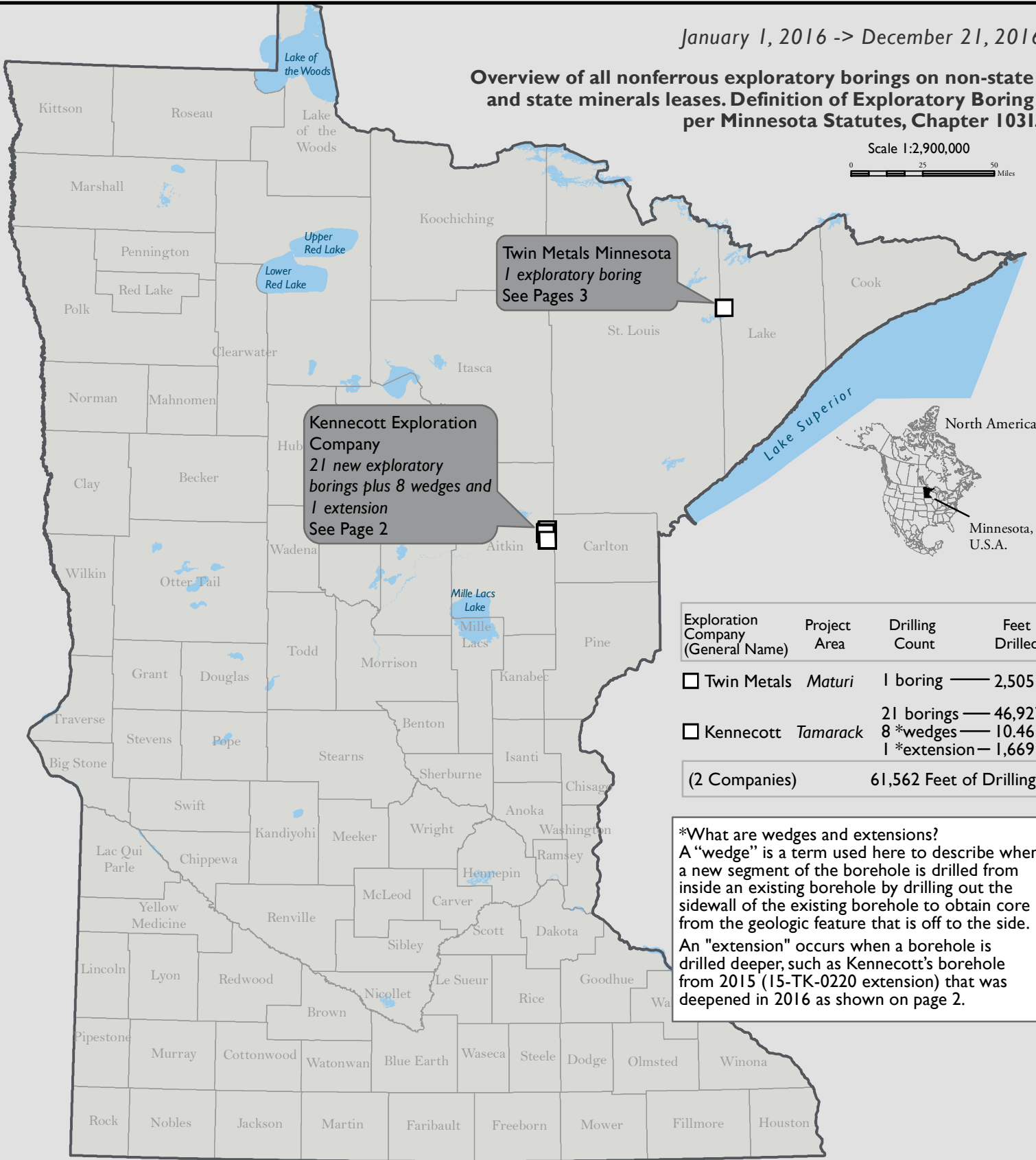
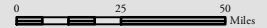


Exploratory Borings for Metallic Minerals in 2016

January 1, 2016 -> December 21, 2016

Overview of all nonferrous exploratory borings on non-state and state minerals leases. Definition of Exploratory Boring per Minnesota Statutes, Chapter 1031.

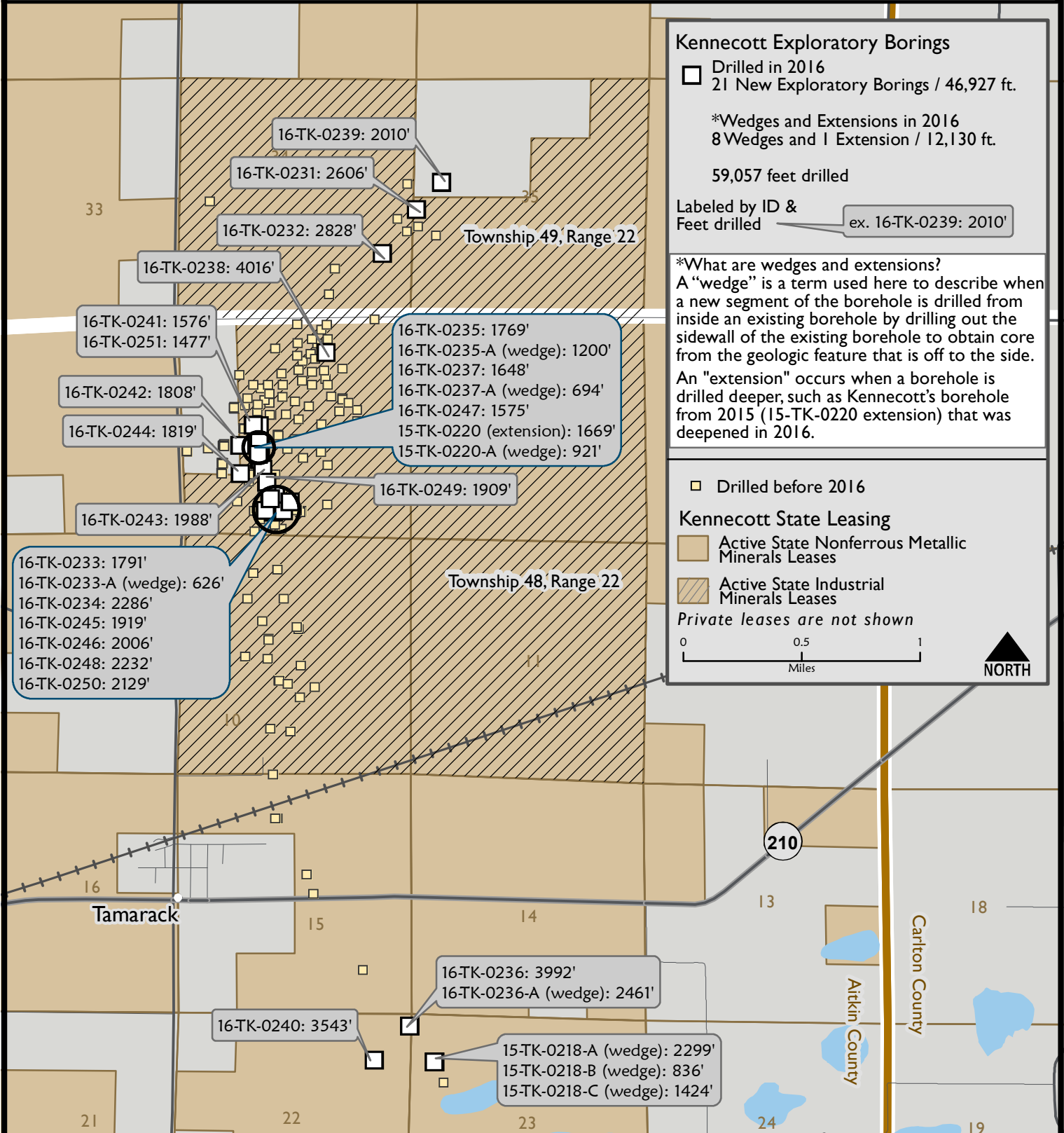
Scale 1:2,900,000



Exploration Company (General Name)	Project Area	Drilling Count	Feet Drilled
<input type="checkbox"/> Twin Metals	<i>Maturi</i>	1 boring	2,505
<input type="checkbox"/> Kennecott	<i>Tamarack</i>	21 borings 8 *wedges 1 *extension	46,927 10,461 1,669
(2 Companies)			61,562 Feet of Drilling

***What are wedges and extensions?**
 A "wedge" is a term used here to describe when a new segment of the borehole is drilled from inside an existing borehole by drilling out the sidewall of the existing borehole to obtain core from the geologic feature that is off to the side.
 An "extension" occurs when a borehole is drilled deeper, such as Kennecott's borehole from 2015 (15-TK-0220 extension) that was deepened in 2016 as shown on page 2.

Exploratory Borings for Metallic Minerals in 2016



Kennecott Exploratory Borings

- ☐ Drilled in 2016
21 New Exploratory Borings / 46,927 ft.
- *Wedges and Extensions in 2016
8 Wedges and 1 Extension / 12,130 ft.

59,057 feet drilled

Labeled by ID & Feet drilled ex. 16-TK-0239: 2010'

***What are wedges and extensions?**
A "wedge" is a term used here to describe when a new segment of the borehole is drilled from inside an existing borehole by drilling out the sidewall of the existing borehole to obtain core from the geologic feature that is off to the side.
An "extension" occurs when a borehole is drilled deeper, such as Kennecott's borehole from 2015 (15-TK-0220 extension) that was deepened in 2016.

- ☐ Drilled before 2016

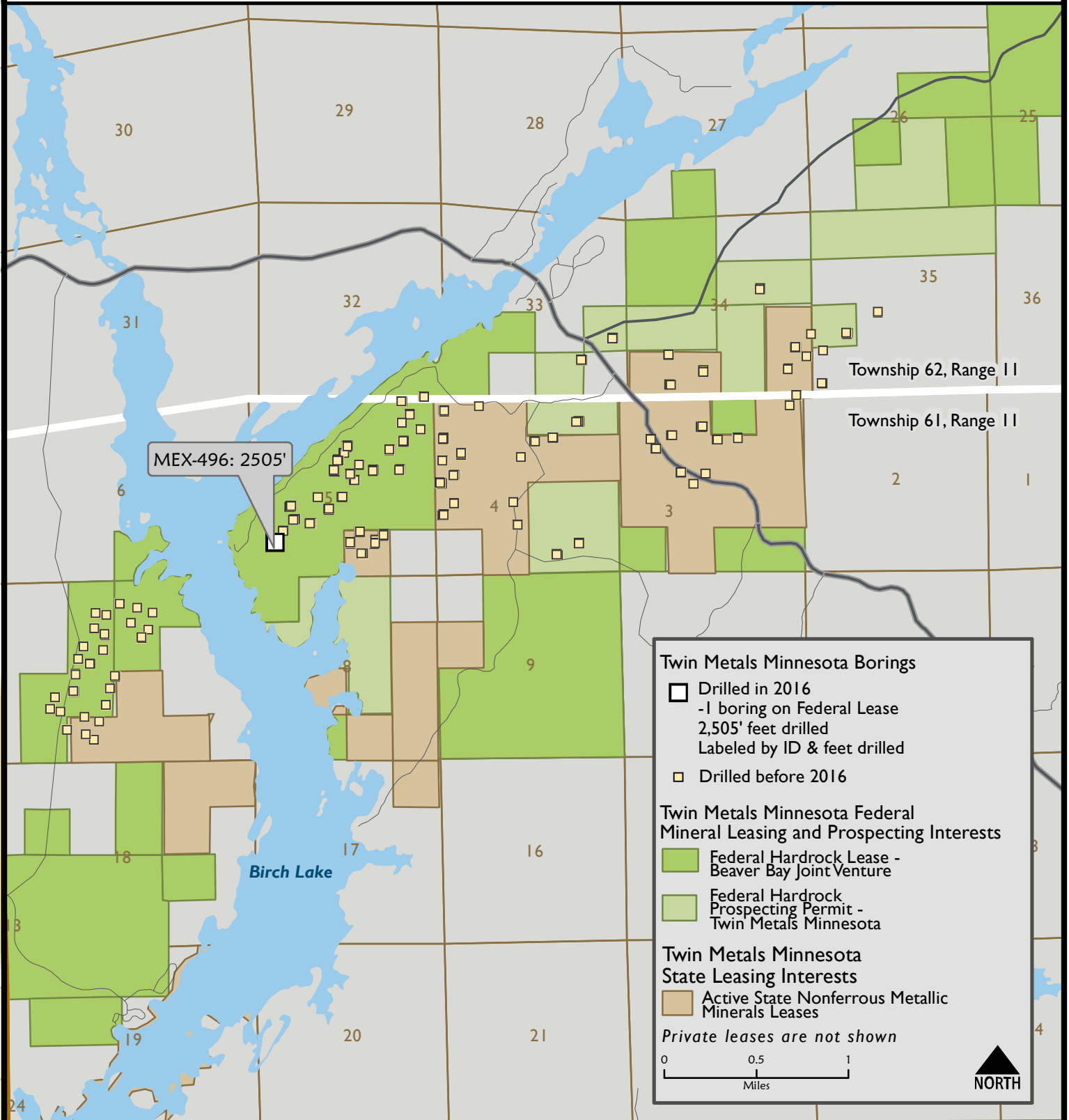
Kennecott State Leasing

- Active State Nonferrous Metallic Minerals Leases
- Active State Industrial Minerals Leases

Private leases are not shown

0 0.5 1 Miles

NORTH



Basemap from MN DNR Public Land
Survey Townships and Sections, Lakes; MnDOT
Roads; Federal Hardrock Mineral Leasing and Prospecting
Permits from United States Forest Service.