Hay (69-435 W)
Wynne/Sabin (69-434 P)
Wynne/Sabin (69-434 P)
Giants Ridge Rd
State Hwy 135
Mine Pit 1
Stephens Mine Pit
Donora Mine Pit
Knox Mine Pit
Unnamed (69-250 W)
Mine Pit 3
Mine Pit 2E
3-2E
2W-2E
Mine Pit 2W
2WX-2W
Hoyt Lakes
County Rd 666
Mine Pit 2WX
Buffer Land
IGCC Power Station Footprint
White Township
9N-6
6-S-2WX
6-S-2WX
6-S-2WX
K-2WX
2WX-IGCC
Forest 117 Rd
Mine Pit 9S
9S-6
Mine Pit 6
Biwabik
Sabin (69-429 P)
Colby-2WX
Process Water Supply Colby - 2WX
County Rd 565
State Hwy 135
Embarrass (69-496 P)
3rd Ave N
Aurora
Forestry Rd
Colby (69-249 P)
Colby Lake
Scenic Acres Rd
Biwabik Township
Colby Lake Rd
Kennedy Memorial Dr
Allen Junction Rd
W 5th Ave S
W 5th Ave S
W 5th Ave S
Lane 55
Loop 54
South Ave
Whitewater (69-376 P)

Map Document: (\\Sp3020-1\projects\AE\E\Exenr\05020003\Environmental\gis\MXDs_Wetland_Permit\Figure D-15 - TECH MEMO NO 2 - Exhibit 10 - ER Process Water Pipelines 11x17 L.mxd)
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East Range

December 2008

Legend

- Footprint and Buffer Land
- Plant Layout
- Process Water Pipelines
- Pumping Facility
- Outfall Facility
- Existing Roads
- Existing Railroads
- Municipal Boundaries
- Civil Township
- Streams
- PWI

Appendix F

Source: NAIP 2003, Mn/DNR, Mn/DOT, USGS, Fluor, Excelsior Energy, and SEH.
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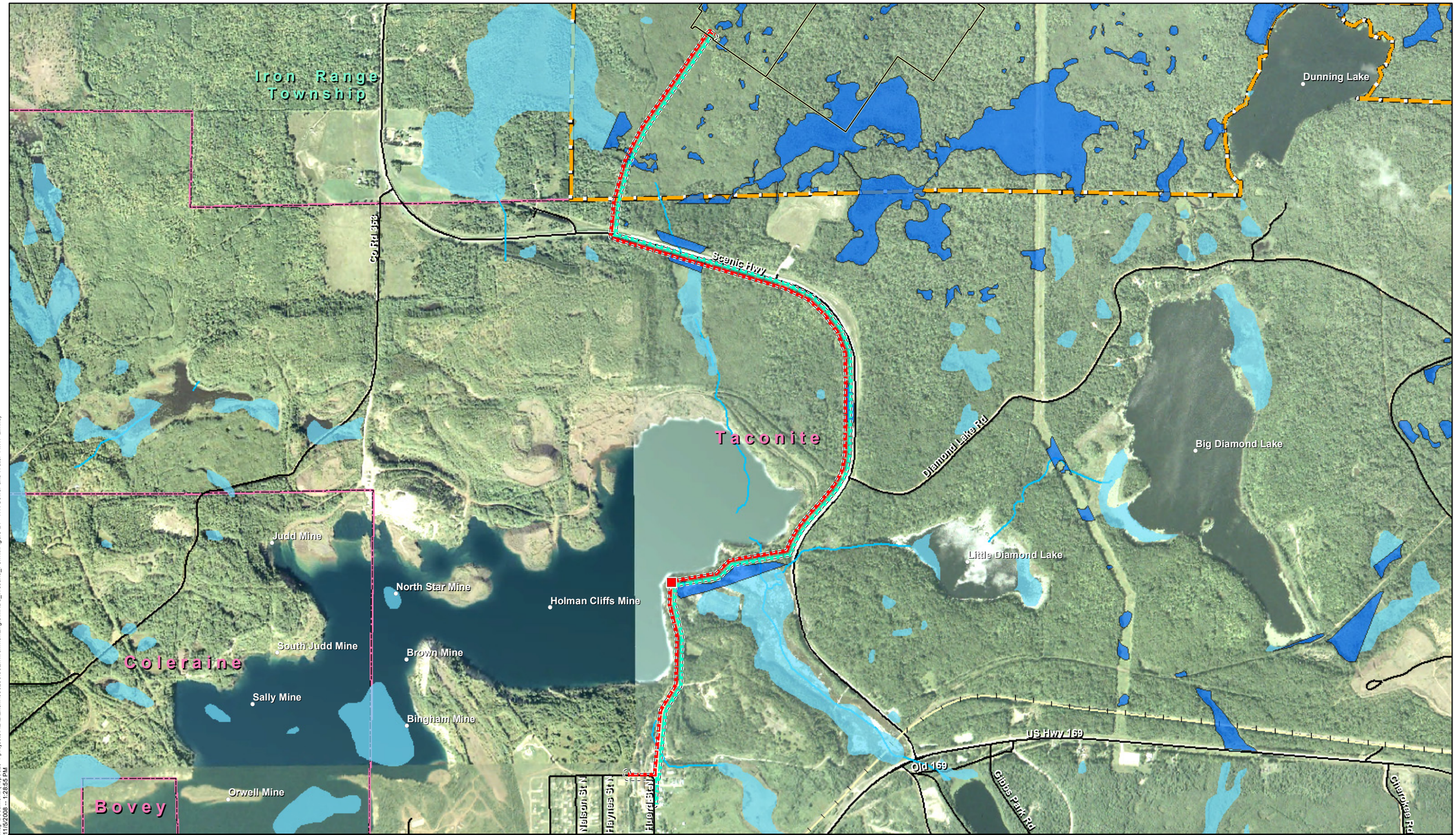
Figure F2-25

Process Water Lines & Pump Station Facilities

St. Louis County - Central Coordinate System

N W E S

0 4,000 Feet



Map Document: (\\sp3020-1\projects\AE\E\Exenn\0502020\03Environmental\gis\MXDs_Wetland_Permit\Figure 24 - WR Sewer and Water 11x17 L.mxd)
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West Range

November 2008

Legend

- Footprint and Buffer Land
- Plant Layout

Proposed Utilities

- Potable Water
- Gravity Sewer
- Sewer and Water Construction Limits

- Surveyed Wetlands
- NWI
- Existing Roads
- Existing Railroads
- Geographic Names
- Municipal Boundaries
- Civil Township
- State Park
- Streams

Appendix F

Source: NAIP 2006, Itasca County, Mn/DOT, Mn/DNR, USGS, USFWS, Fluor, Excelsior Energy, and SEH.
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Figure F2-26

Proposed Sanitary & Potable Water Wetlands

Itasca County - South Coordinate System

N W E S

0 1,250 Feet

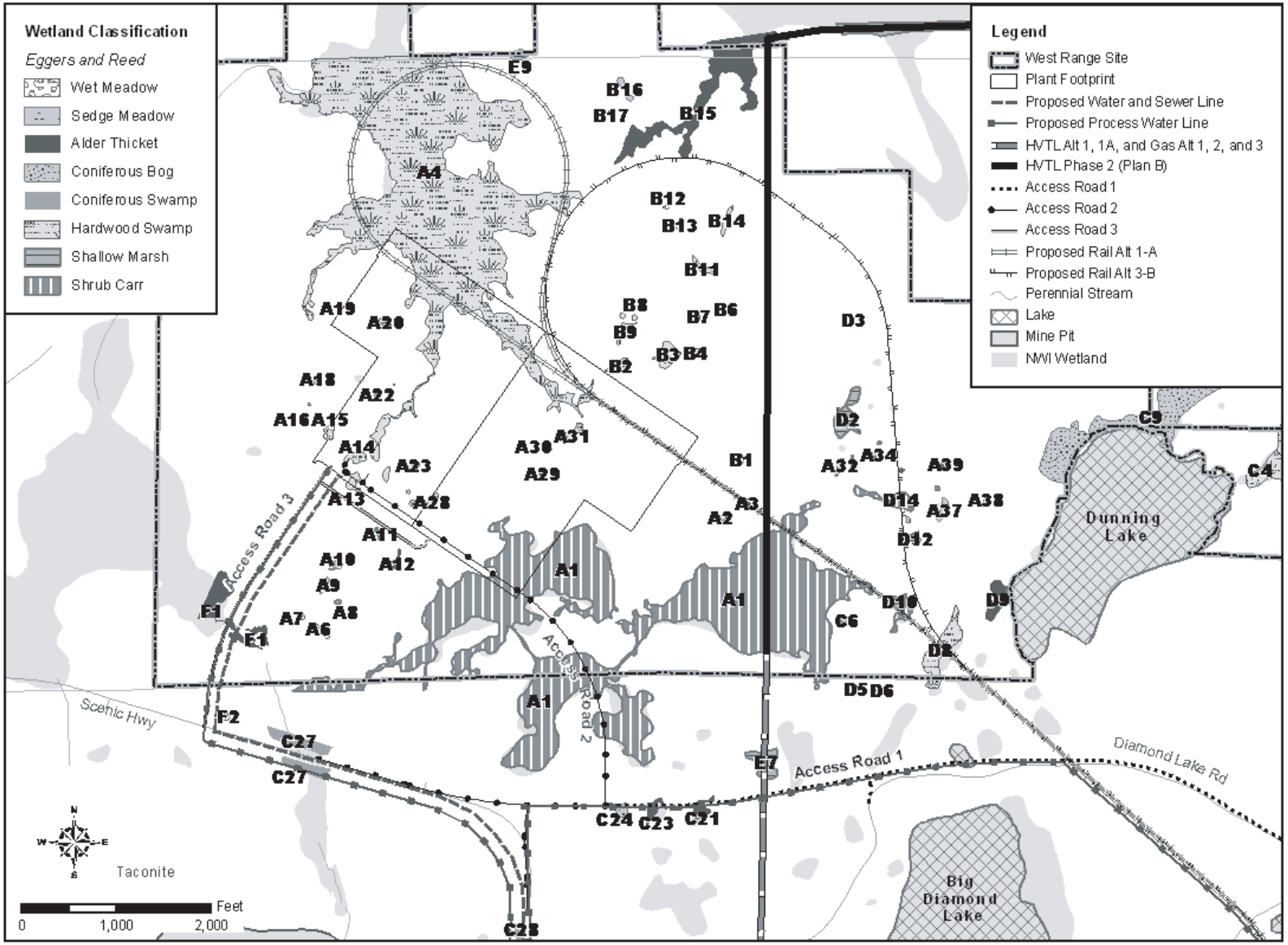

Figure F2-27. West Range Central EIS with Eggers and Reed Wetland Classifications

Shamrock Lake
Shamrock Dr
Island Lake
Munson Rd
4-24-56
3-24-56
2-24-56
1-24-56
6-23-56
5-23-56
5-24-56
28 LINE
Iron Range Township
Greenway Township
Reilly Beach Rd
8-24-56
9-24-56
10-24-56
11-24-56
12-24-56
7-23-56
8-23-56
Co Rd 349
Dunning Lake
Co Rd 353
Taconite
45 LINE
Scenic Hwy
16-24-56
15-24-56
14-24-56
13-24-56
18-23-56
17-24-56
Diamond Lake Rd
Big Diamond Lake
Arcturus Mine
Judd Mine
North Star Mine
Holman Cliffs Mine
Little Diamond Lake
Ekman Ave
20-24-56
Coleraine
21-24-56
22-24-56
23-24-56
24-24-56
19-23-56
South Judd Mine
Brown Mine
Alice Ave
Sally Mine
Bingham Mine
US Hwy 169
GREENWAY 115/23 KV SUBSTATION- TO BE DEMO'D

Receptors
- Airport
- Cemetery
- Church
- Forest
- Parks & Recreation
- Post Office
- School & Institutions
- Summit
- Trail
- Residences
- Snowmobile Parking
- Snow Park
- Hospitals & Medical

Map Document: (\\sp3020-1\projects\AE\E\Exenr\050200\03Environmental\gis\MXDs_Wetland_Permit\Figure 13a-13c - Mapbook HVTL Alt 1 032506 11x17 L.mxd)
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West Range

November 2008

Legend
- Plant Layout
- Footprint and Buffer Land
- WRA-1 Route
- One-mile ROW
- HVTL Mileposts
- HVTL WRA-1
- HVTL Impacted ROW
- HVTL Substations
- Existing HVTL
- PLS Sections (S-T-R)
- Rare Natural Features
- WMA
- Streams
- Surveyed Wetlands
- NWI (w/Gas Line Refinements)

Source: NAIP 2006, LMIC, Mn/EQB, Mn/DNR, Mn/DOT, USGS, ESRI, Excelsior Energy, and SEH.
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Overview Map Tiles
1
2
3

Figure F2-28a

Plan A: Phase I/II Preferred (WRA-1) HVTL Route

Itasca County - South Coordinate System
N W E S
0 2,000 Feet

GREENWAY 115/23 KV SUBSTATION- TO BE DEMO'D

Bingham Mine
Mud Lake
Twin Lakes
Spring Lake
Holman Lake
Loon Lake
Bass Lake
Foot Lake

Taconite
Iron Range Township
Bovey
Trout Lake Township
Marble
Calumet
Greenway Township
Unorganized Territory of Little Sand Lake Township

21-24-56
22-24-56
23-24-56
24-24-56
19-23-56
20-23-56
21-23-56
27-24-56
28-24-56
26-24-56
25-24-56
30-23-56
29-23-56
28-23-56
34-24-56
35-24-56
36-24-56
31-23-56
32-23-56
33-23-56
33-24-56
4-24-55
3-24-55
2-24-55
1-24-55
6-23-55
5-23-55
9-24-55
10-24-55
11-24-55
12-24-55
7-23-55
8-23-55

Old 169
Co Rd 15
Stephens St S
US Hwy 169
Gibbs Park Rd
Cherokee Rd
Fayette Rd
Ball St
Heron Dr
Moon Dr
Twin Lakes Dr
Taurus Rd
Co Rd 12
Bass Lake Rd
Zeleznikar Dr
Seaburg Rd
W Swan River Rd
Pinto Rd
Co Rd 69
Birch Dr
Old Mill Rd
Co Rd 10
Ryberg Rd
Elm Dr

2
3
4
5

Receptors

- Airport
- Cemetery
- Church
- Forest
- Parks & Recreation
- Post Office
- School & Institutions
- Summit
- Trail
- Residences
- Snowmobile Parking
- Snow Park
- Hospitals & Medical

Map Document: (\\sp3020-1\projects\AE\E\Exenr\050200\03Environmental\gis\MXDs_Wetland_Permit\Figure 13a-13c - Mapbook HVTL Alt 1 032506 11x17 Lmxd)
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West Range

November 2008

Legend

- Plant Layout
- Footprint and Buffer Land
- WRA-1 Route
- One-mile ROW
- HVTL Mileposts
- HVTL WRA-1
- HVTL Impacted ROW
- HVTL Substations
- Existing HVTL
- PLS Sections (S-T-R)
- Rare Natural Features
- WMA
- Streams
- Surveyed Wetlands
- NWI (w/Gas Line Refinements)

Overview Map Tiles: 1, 2, 3

Source: NAIP 2006, LMIC, Mn/EQB, Mn/DNR, Mn/DOT, USGS, ESRI, FirstEnergy, and SEH.
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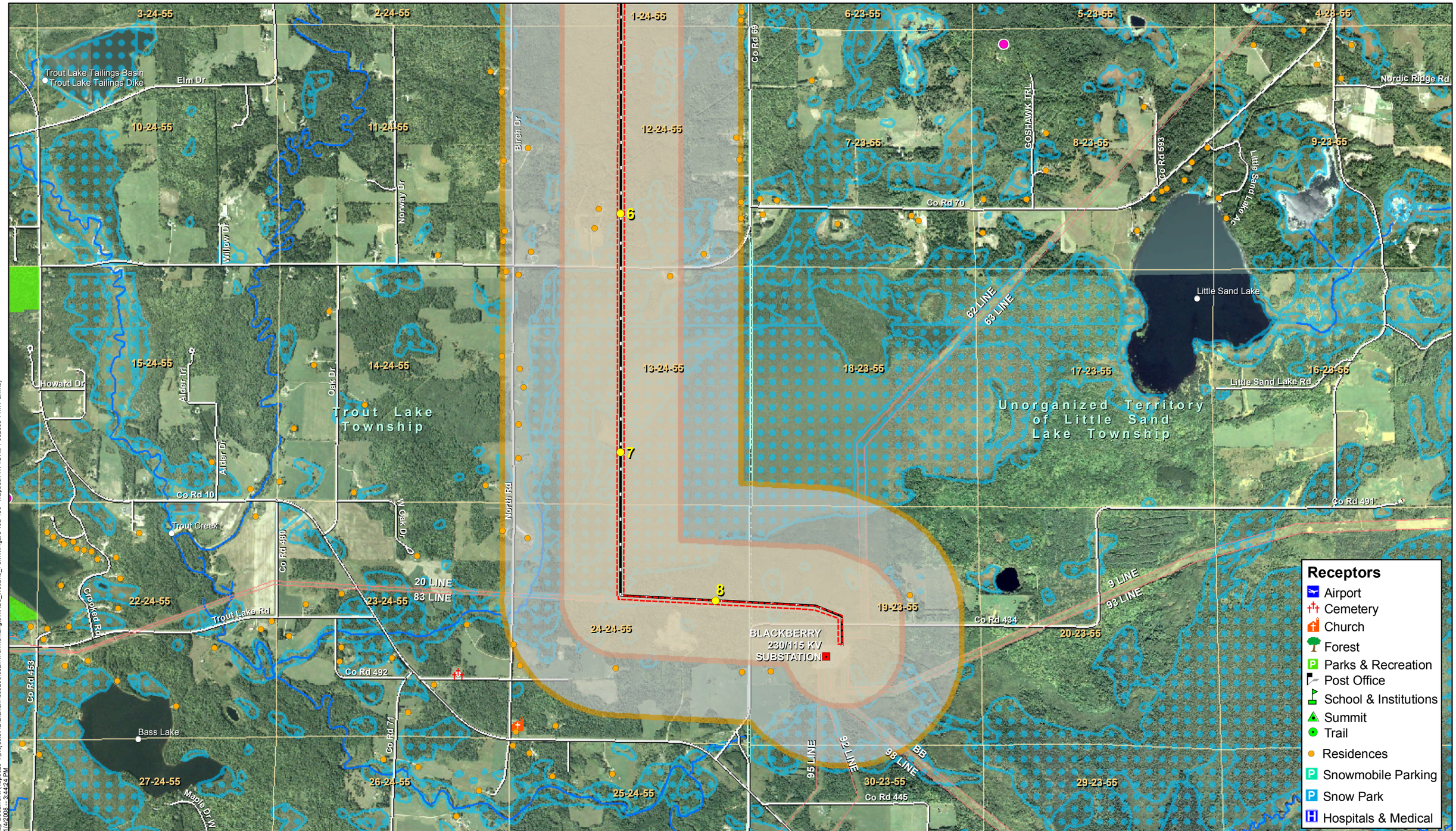
Figure F2-28b

Plan A: Phase I/II Preferred (WRA-1) HVTL Route

Itasca County - South Coordinate System

N W E S

0 2,000 Feet



Map Document: (\sp3020-1\projects\AE\IE\Exen\050200\03Environmental\gis\MXDs_Wetland_Permit\Figure 13a-13c - Mapbook HVTL Alt 1 032506 11x17 Lmxd)
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Receptors

- Airport
- Cemetery
- Church
- Forest
- Parks & Recreation
- Post Office
- School & Institutions
- Summit
- Trail
- Residences
- Snowmobile Parking
- Snow Park
- Hospitals & Medical

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West Range

November 2008

Legend

- Plant Layout
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- WRA-1 Route
- One-mile ROW
- HVTL Mileposts
- HVTL WRA-1
- HVTL Impacted ROW
- HVTL Substations
- Existing HVTL
- PLS Sections (S-T-R)
- Rare Natural Features
- WMA
- Streams
- Surveyed Wetlands
- NWI (w/Gas Line Refinements)

Source: NAIP 2006, LMIC, Mn/EQB, Mn/DNR, Mn/DOT, USGS, ESRI, FirstEnergy, and SEH.
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Overview Map Tiles

Figure F2-28c

Plan A: Phase I/II Preferred (WRA-1) HVTL Route

Itasca County - South Coordinate System

0 2,000 Feet