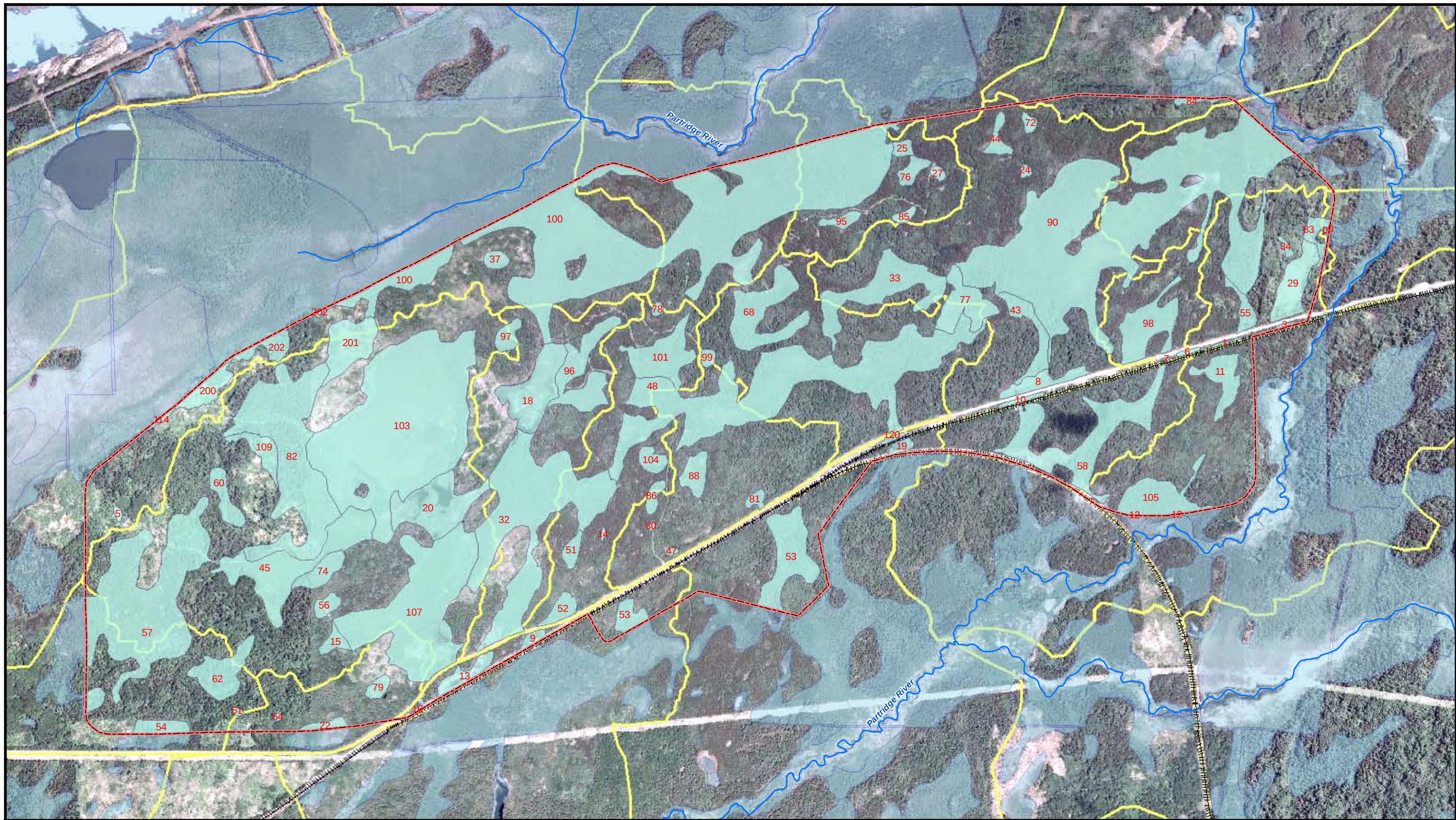




Map Source: Barr Engineering

- | | |
|--|--|
| Mine Area | — Rivers/Streams |
| Existing Railroad | Mine Area Wetland Delineations |
| Watersheds | Wetland Delineations |

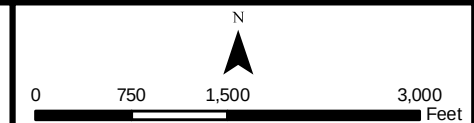


Figure 4.2-1
Delineated Wetlands - Mine Site

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Map Source: Barr Engineering

- Impacted Wetland
- Evaluation Area
- Wetland

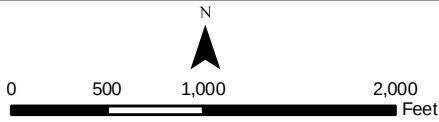


Figure 4.2-2
Predicted Tailings Basin Area Wetland Impacts
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009



Map/Data Source: Barr Engineering

- Railroad Centerline
- Railroad Footprint
- Dunka Road
- Non-Impacted Wetland
- Impacted Wetland

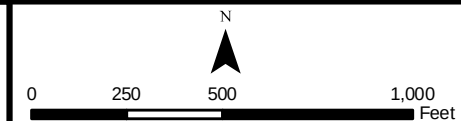
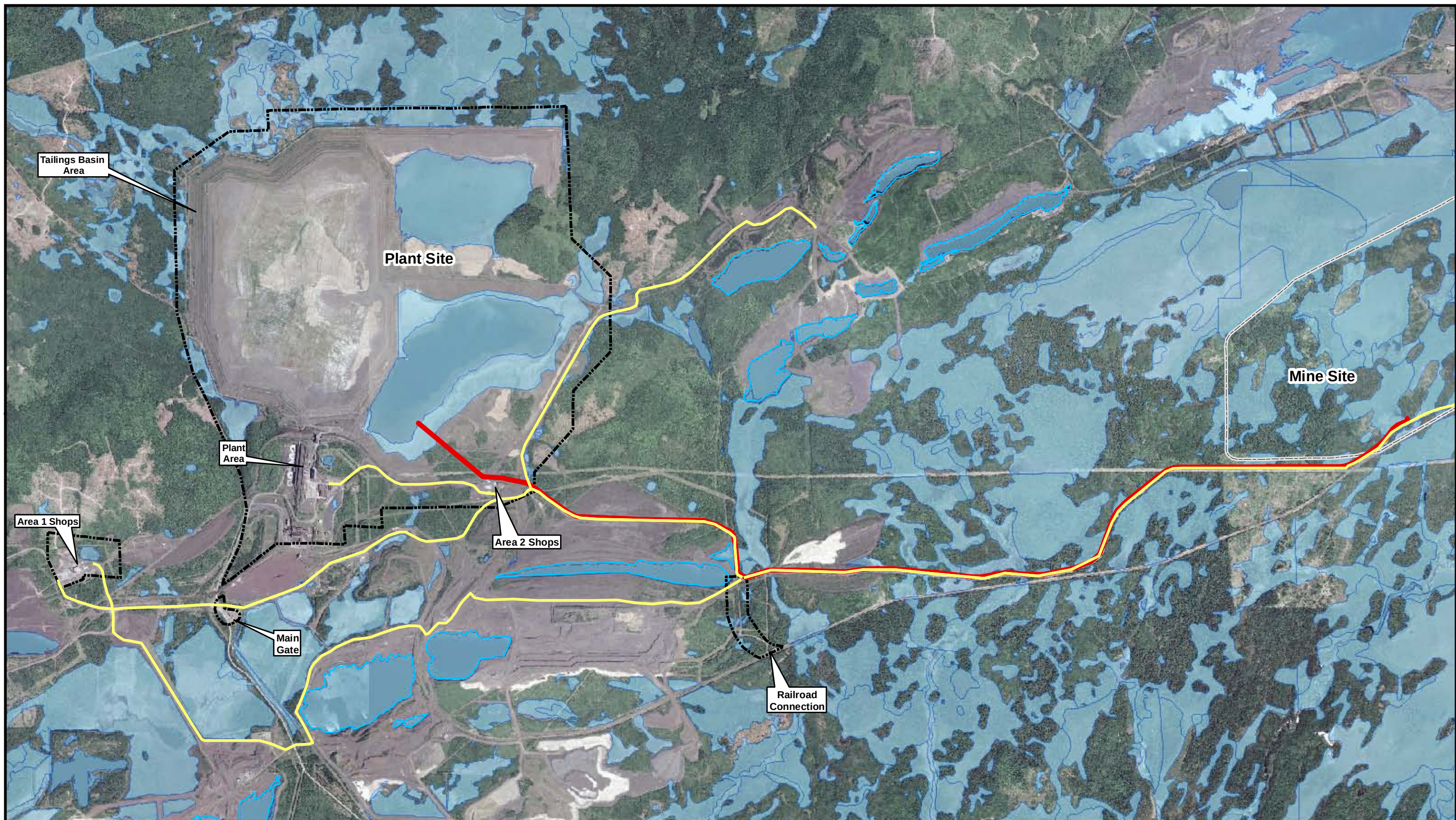


Figure 4.2-3
Predicted Railroad Connection Wetland Impacts

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Map/Data Source: Barr Engineering

- Dunka Road and Access Roads
- Dunka Road and Pipeline Impact Area (200 ft. centered on the Center of Dunka Road)
- Plant Site
- Mine site
- Wetlands
- Taconite Pit Water

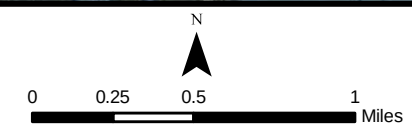
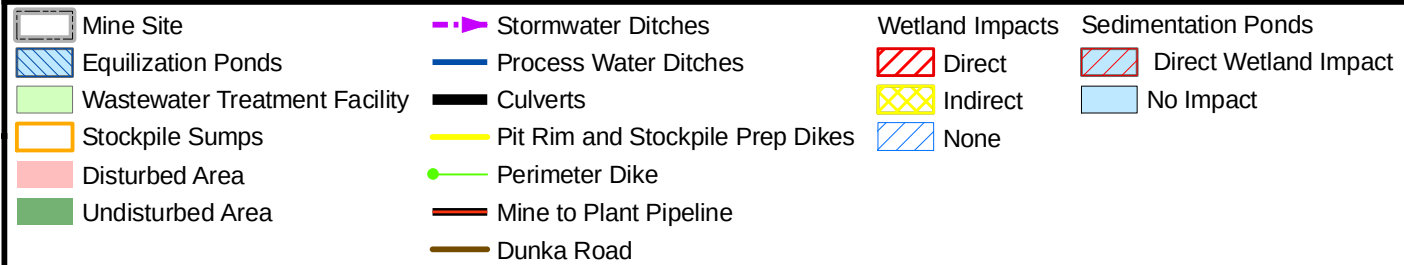
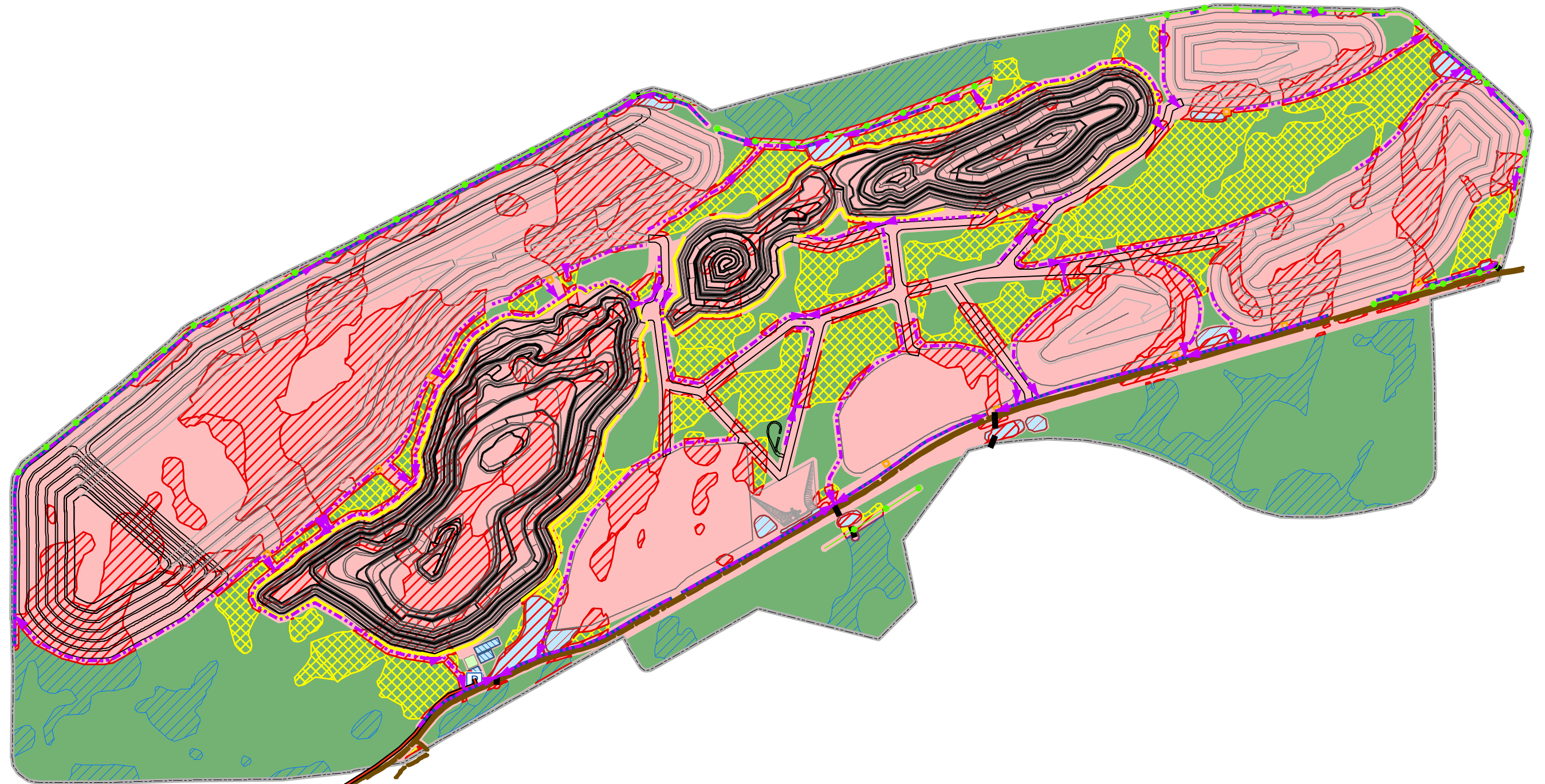


Figure 4.2-4
Wetlands - Dunka Road and Pipeline

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Map/Data Source: Barr Engineering

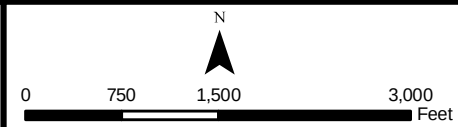
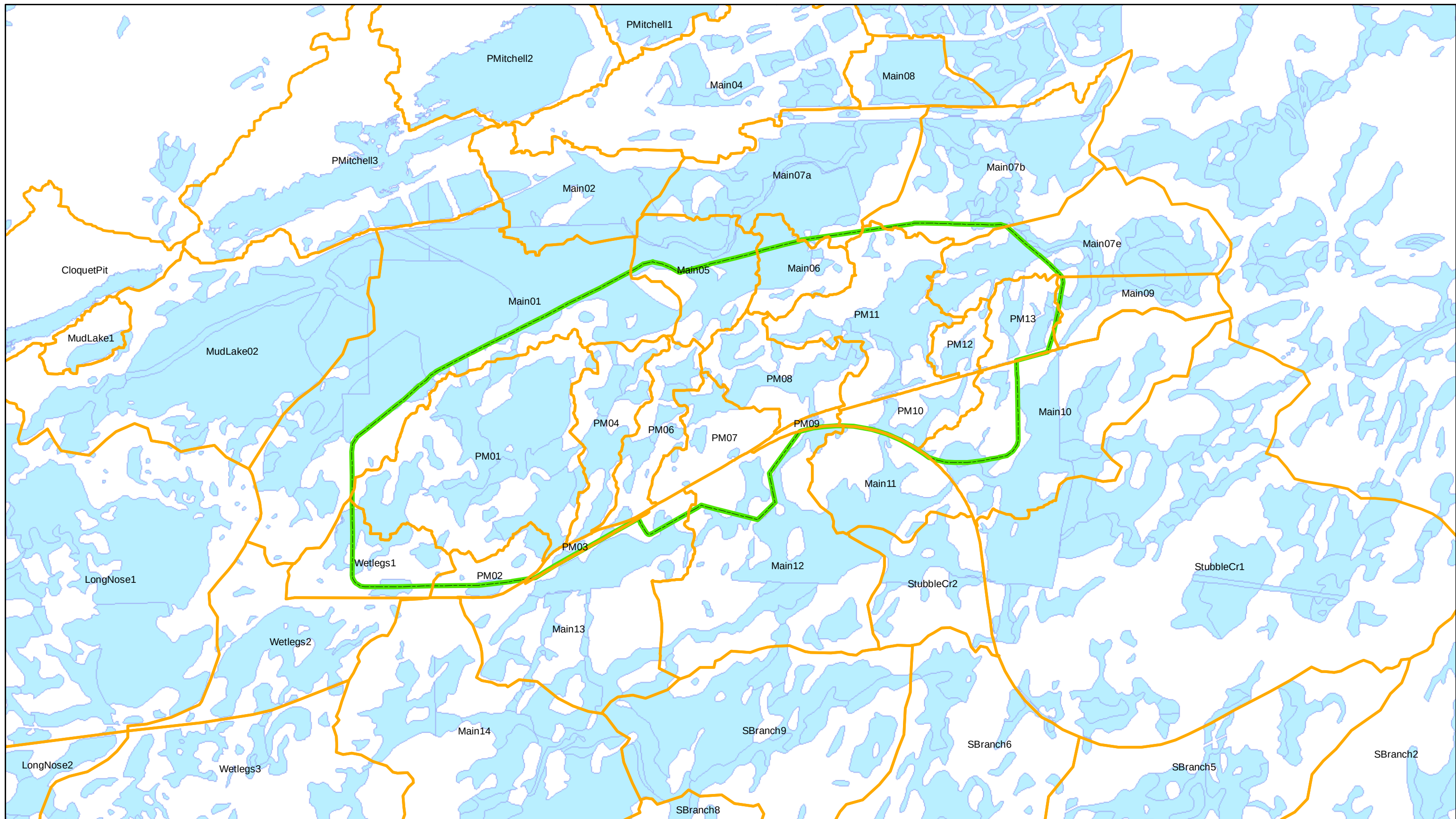


Figure 4.2-5
20 Year Wetland Impacts - Mine Site
 NorthMet Project
 PolyMet Mining, Inc.
 St. Louis County, Minnesota
 October 2009



Map Source: Barr Engineering

- Watersheds - existing conditions
- Mine Site
- Wetlands

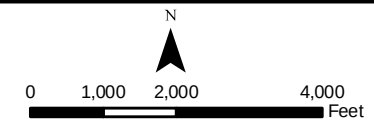
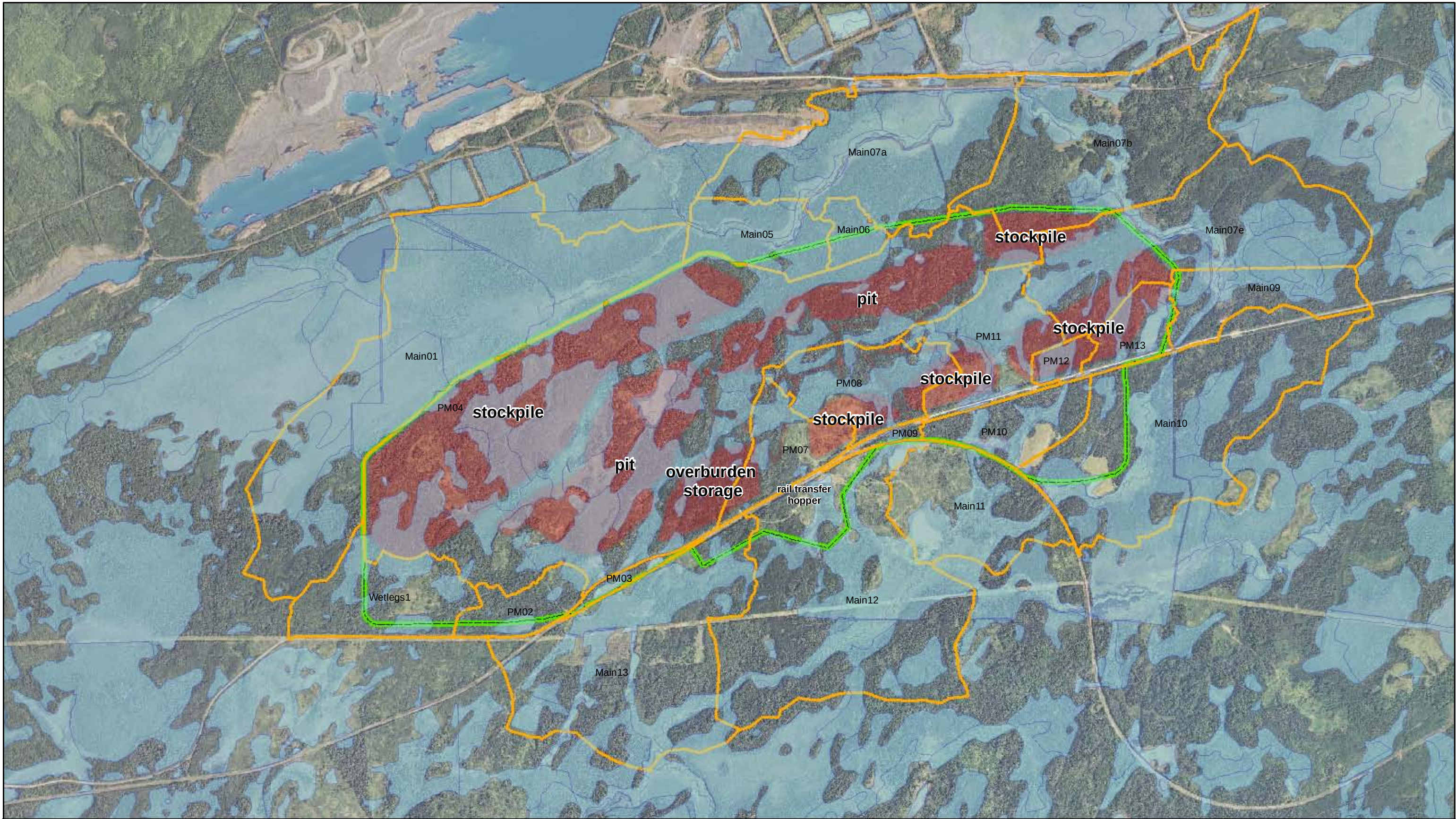


Figure 4.2-6 Watersheds - Existing Conditions

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Map Source: Barr Engineering

-  Watersheds - After Closure
-  Wetlands
-  Proposed Project Impact Areas
-  Mine Site

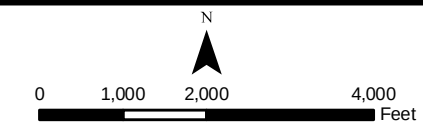
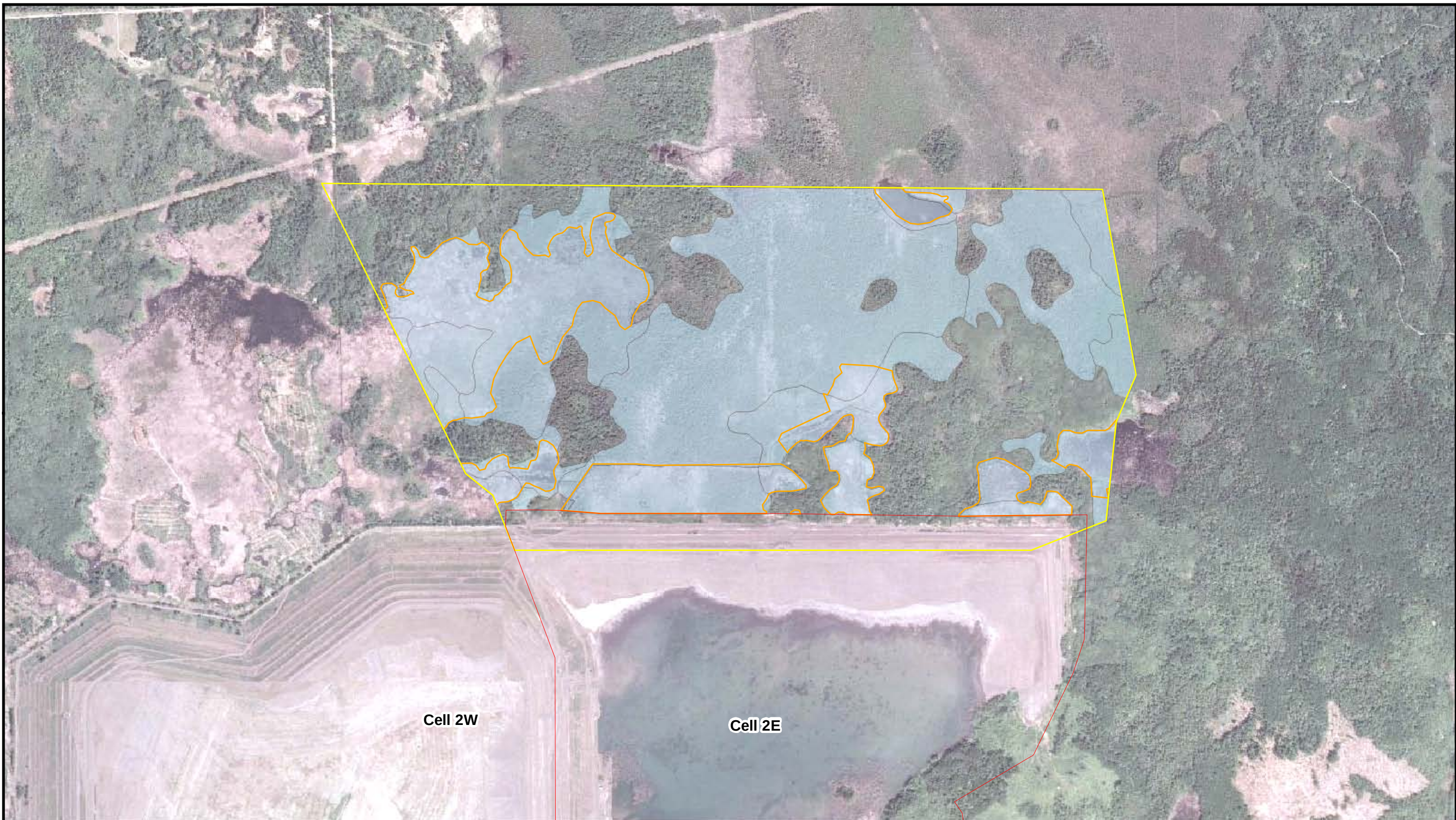


Figure 4.2-7
Watersheds - After Closure (All Actions)

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Source: ERM

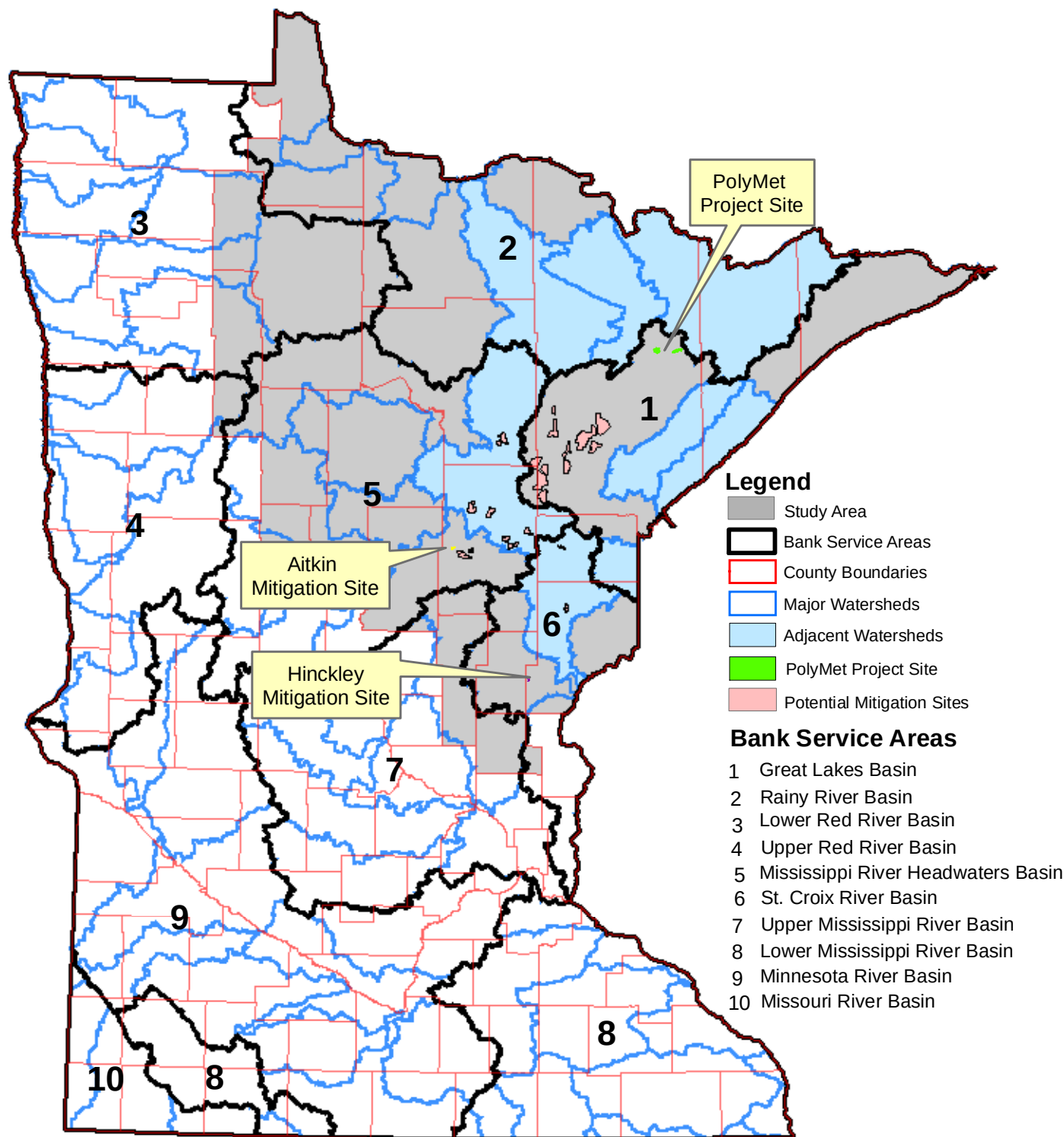
- Buttress Area
- Evaluation Area North of Tailings Basin
- Historic Wetland Impacts
- Wetlands North of Tailings Basin

Estimated Impacts (approximate):
 Potential Indirectly Impacted Wetlands within the Evaluation Area: 546.2 acres
 Historic Wetland Impacts: 197 acres
 Potential Indirect Cell 2E Wetland Impacts: 349.2 acres

N

0 500 1,000 2,000 Feet

Figure 4.2-8
Potential Indirect Wetland Impacts at
Tailings Basin (All Actions)
 NorthMet Project
 PolyMet Mining, Inc.
 St. Louis County, Minnesota
 October 2009



Map Source: Barr Engineering

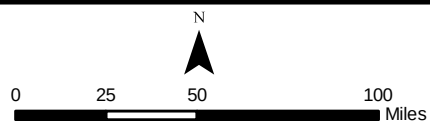
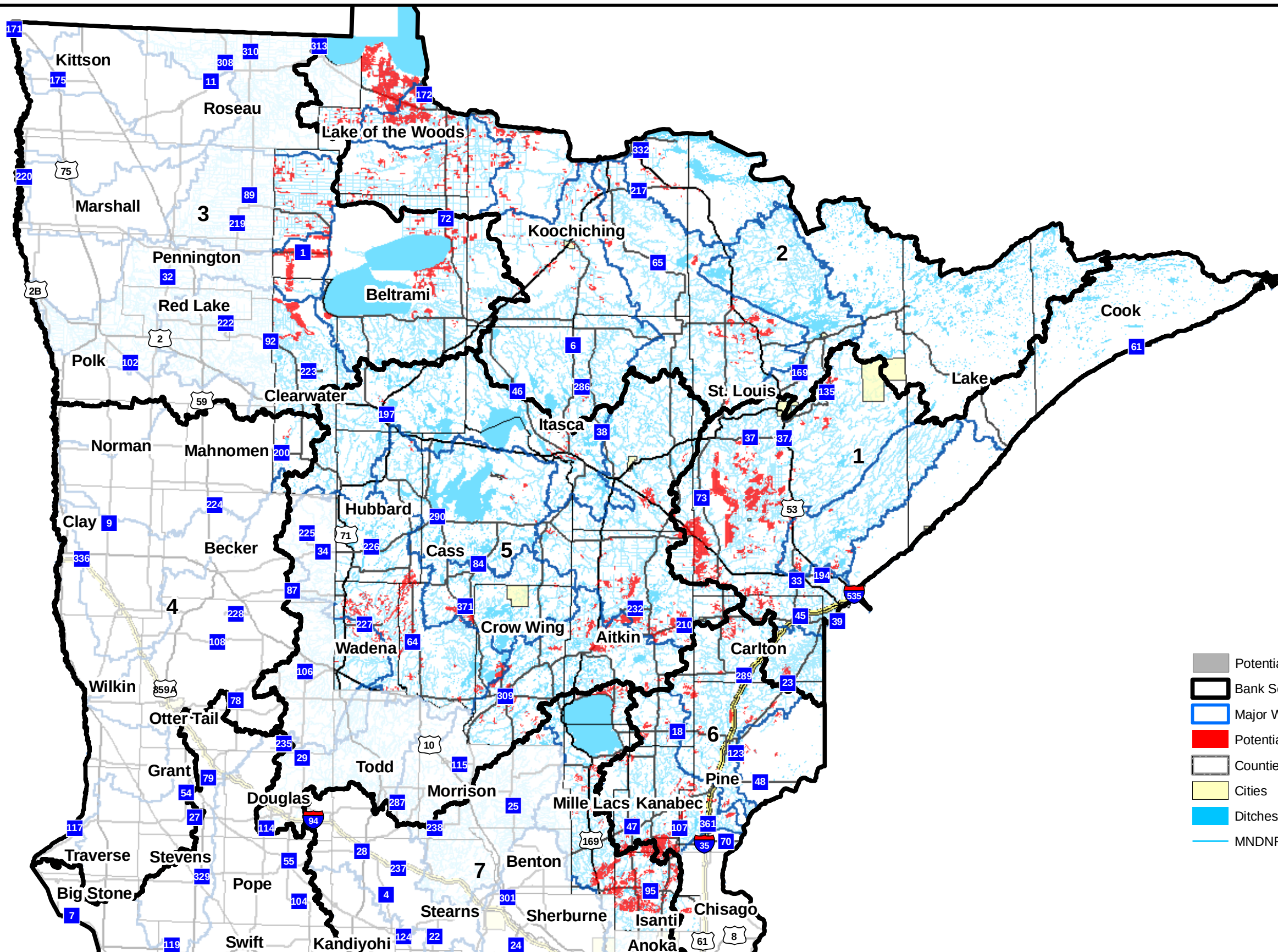


Figure 4.2-9
Wetland Mitigation Study Area and
Bank Service Areas
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



- Potential Wetland Mitigation Sites Evaluated
- Bank Service Areas
- Major Watersheds
- Potential Wetland Mitigation Areas
- Counties
- Cities
- Ditches/Streams/Open Water
- MNDNR Ditches

Map Source: Barr Engineering

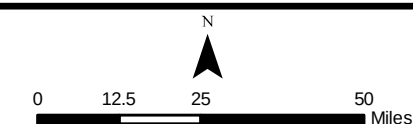
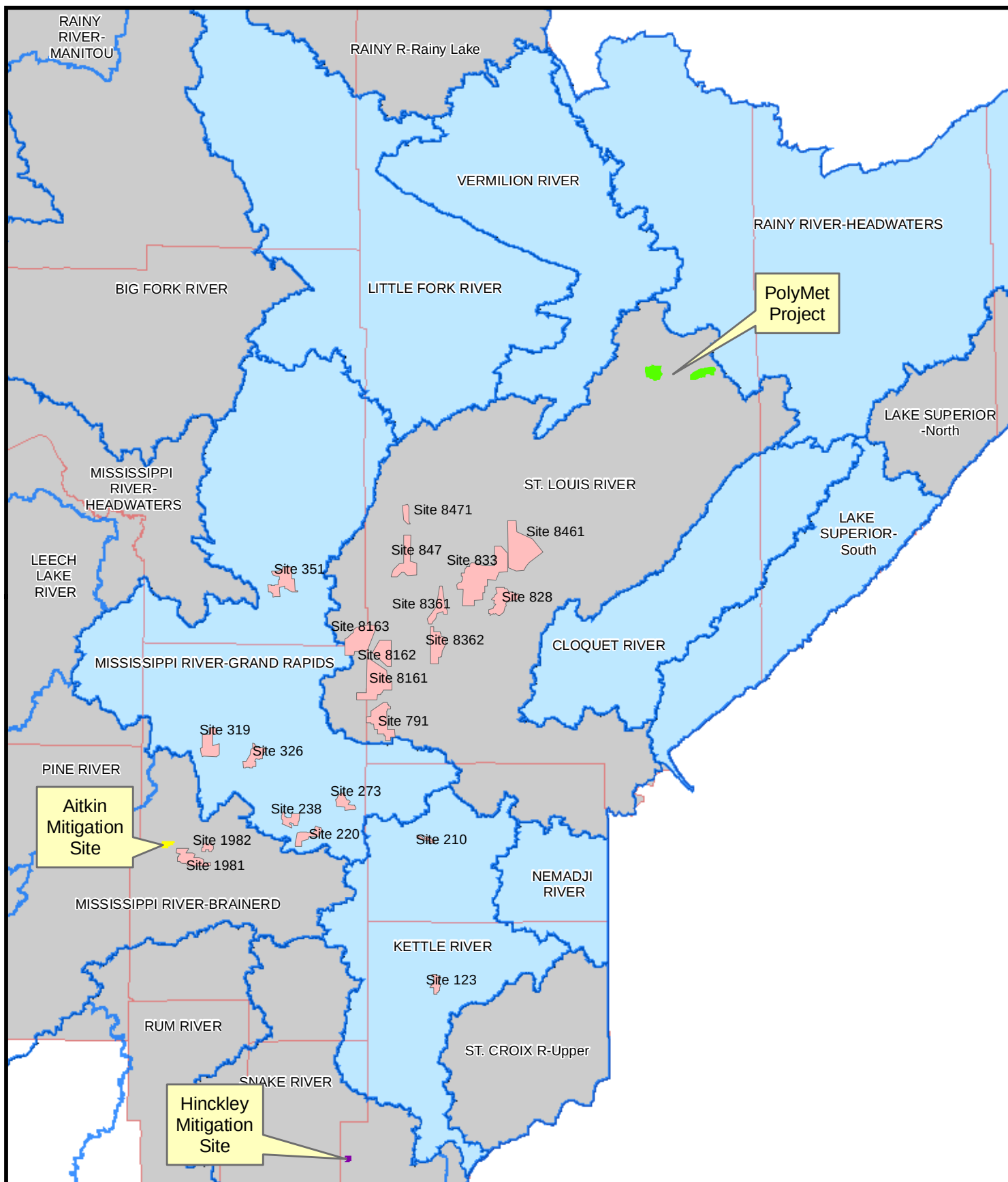


Figure 4.2-10
Potential Wetland Mitigation Areas

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

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Map Source: Barr Engineering

Legend

- Study Area
- County Boundaries
- Adjacent Watersheds
- Potential Mitigation Sites
- PolyMet Project Site

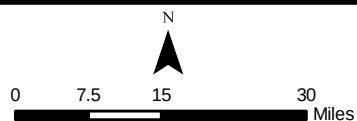
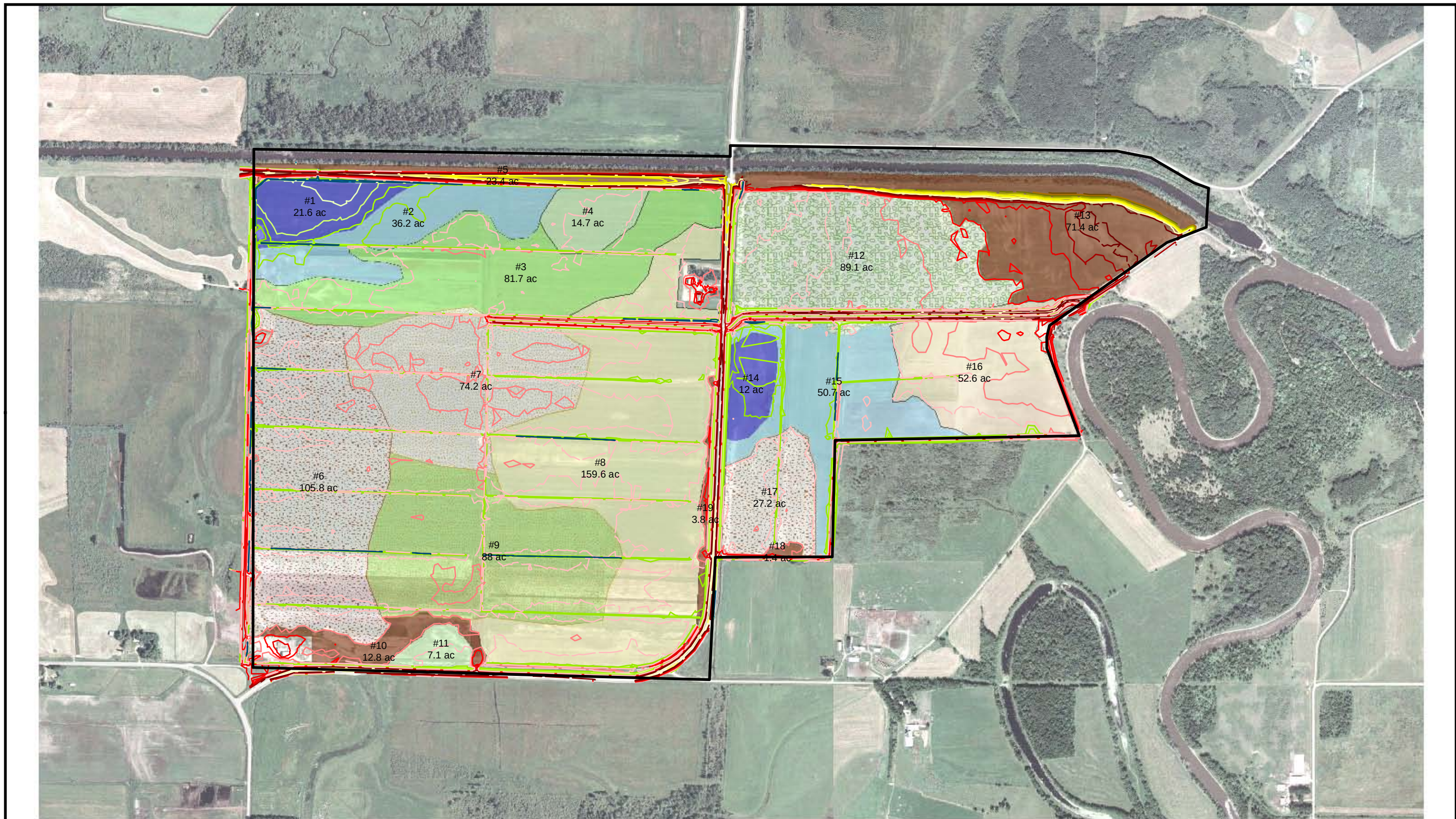


Figure 4.2-11
Wetland Mitigation Study Area
And Watersheds
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Map Source: Barr Engineering

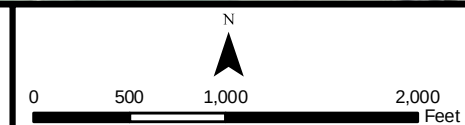
**Wetland Restoration Areas
Eggers & Reed Classification**

Alder Thicket	Hardwood Swamp	Shrub Carr
Coniferous Bog	Open Bog	Upland
Coniferous Swamp	Sedge Meadow	Wet Meadow
Deep Marsh	Shallow Marsh	

Approximate Property Boundaries

Elevation Contours

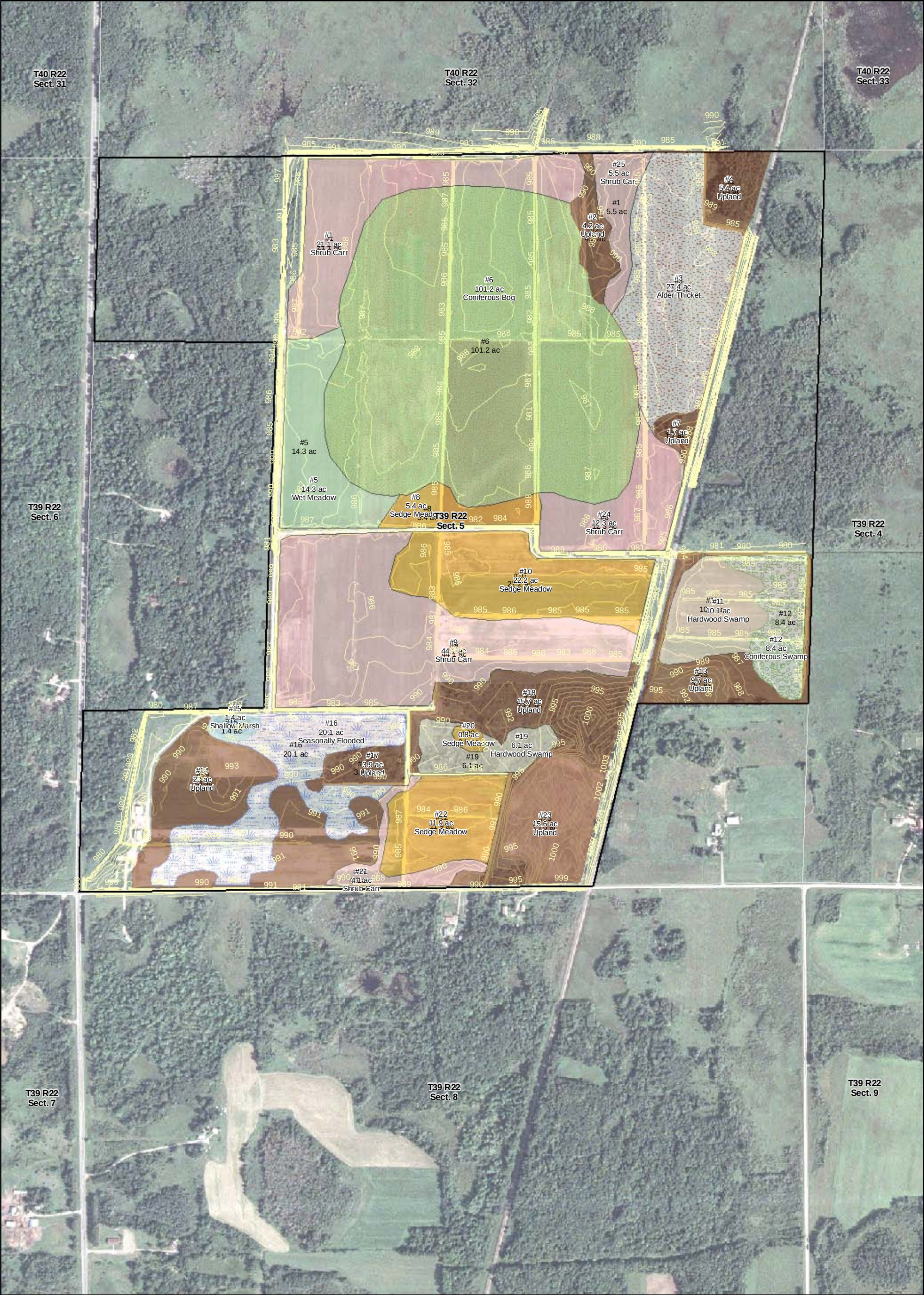
1188	1194	1200	1206	1212
1189	1195	1201	1207	1213
1190	1196	1202	1208	
1191	1197	1203	1209	
1192	1198	1204	1210	
1193	1199	1205	1211	



**Figure 4.2-12
Aitkin Wetland Mitigation Site**

**NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota**

October 2009



Map/Data Source:
Barr Engineering

Approximate Property Boundaries
1-Foot Topography
Public Land Survey

Wetland Restoration Types
Eggers & Reed Classification

Alder Thicket	Seasonally Flooded
Coniferous Bog	Sedge Meadow
Coniferous Swamp	Shallow Marsh
Deep Marsh	Shrub Carr
Hardwood Swamp	Upland
Open Bog	Wet Meadow

N

0 250 500 1,000 Feet

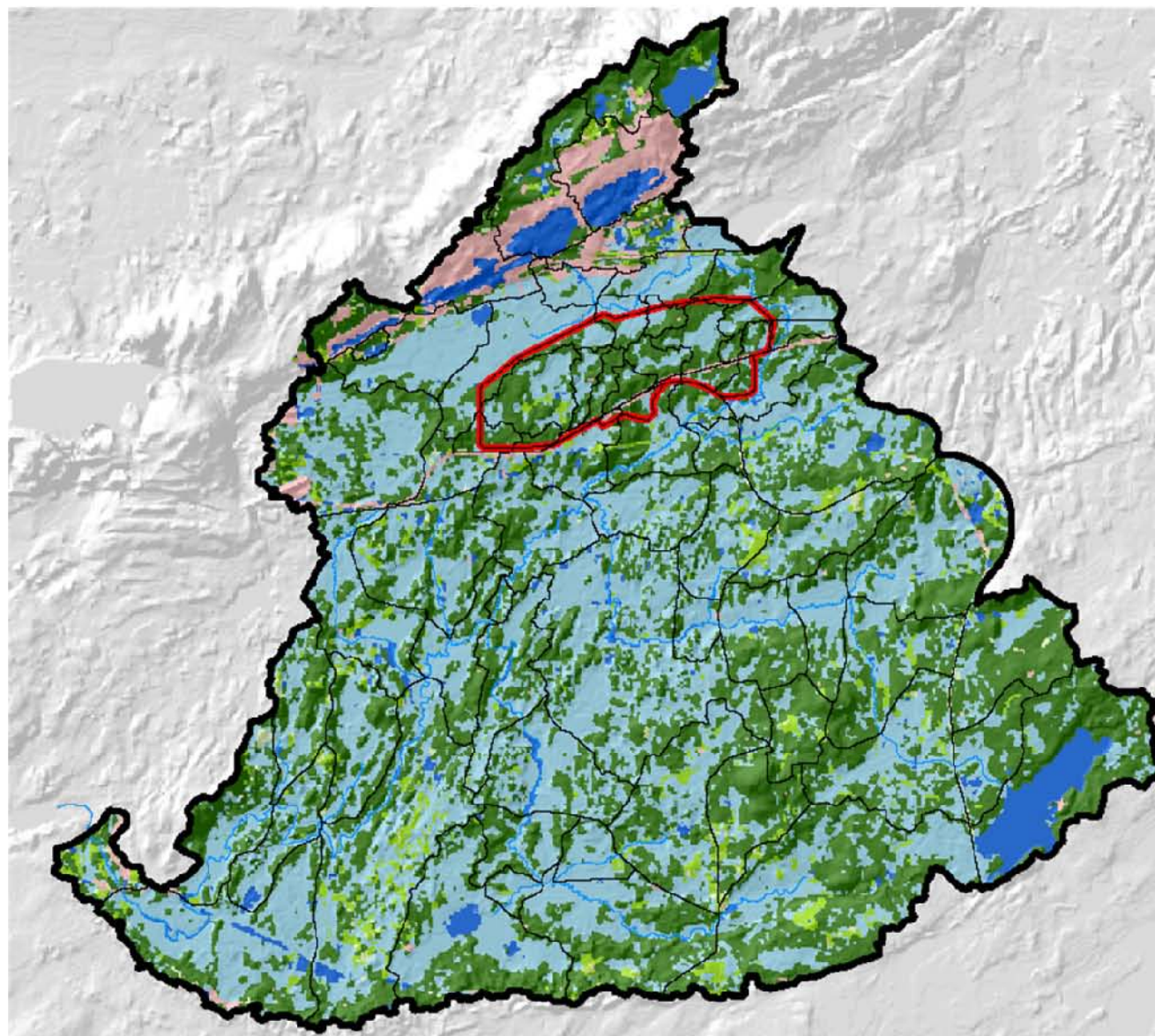
Minnesota DEPARTMENT OF NATURAL RESOURCES

US Army Corps of Engineers St. Paul District

Figure 4.2-13
Hinckley Wetland Mitigation Site

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

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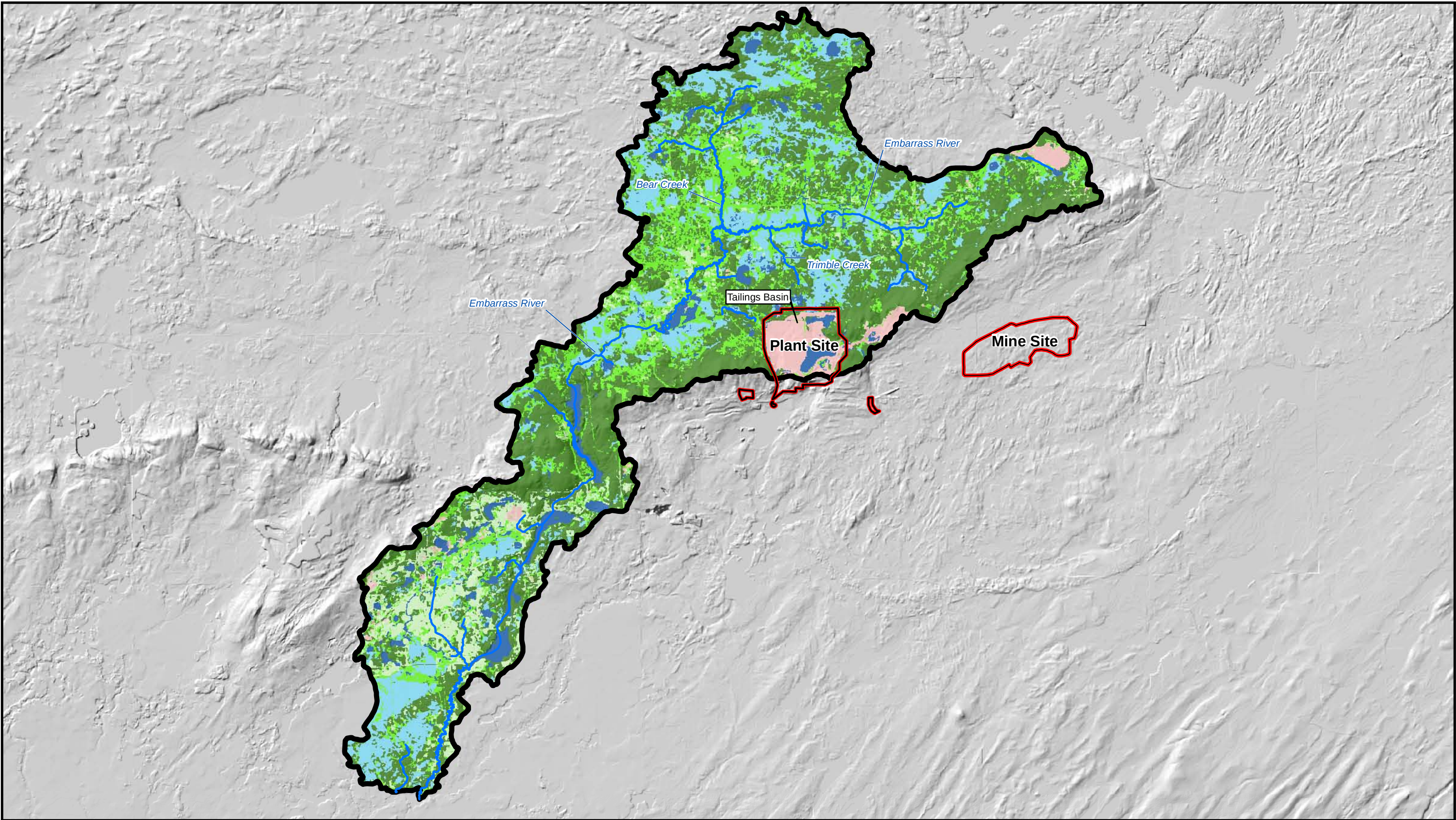


Map Image Source: Barr Engineering



Figure 4.2-14
Partridge River GAP Analysis Coverage of
Mine Site
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota

October 2009



Basemap source: Barr Engineering

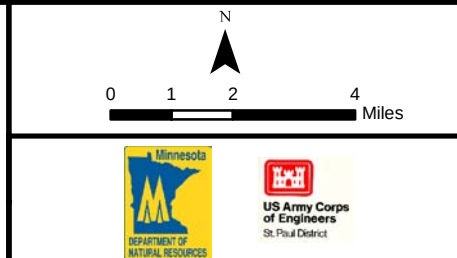
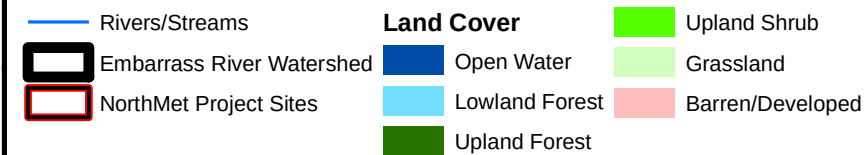


Figure 4.2-15
Embarrass River GAP Analysis Coverage
of the Plant Site
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009