Figure 4.5-1
Freshwater Mussel Sampling Locations
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009

Map/Data Source: Barr Engineering

- Sampling Locations (Heath 2004)
- River/Stream
- Railroad
- Watershed Boundary
- Embarrass River Watershed Boundary
Embarrass River
Main Gate
Plant Site

Embarrass River
Partridge River
Wyman Creek
Spring Mine Creek
Second Creek
South Branch Partridge River
Longnose Creek
Trimble Creek
Ridge Creek
Wetlegs Creek
Colvin Creek

Embarrass River
Mine Site
Tailings Basin Area
Plant Area
Area 1
Shops
Railroad Connection

Babbit
Hoyt Lakes
B-7
B-5
B-3
B-2
Partridge River Watershed
Embarrass River Watershed
Second Creek (Knox Creek) Watershed
Wyman Creek/Partridge River Watershed
Partridge River Watershed
Colvin Creek/Partridge River Watershed

Sampling Locations (Breneman, 2005)
River/Stream
Railroad
Watershed Boundary
Embarrass River Watershed Boundary

Map/Data Source: Barr Engineering

Figure 4.5-2
Biological Sampling Points
NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009
### Figure 4.5-3
Mean Percent Composition of Dominant Taxa in Lakes

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009

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Figure Source: Barr Engineering

No Scale
Lake Superior
NorthMet/PolyMet Site

0 50 100 250 Miles

Figure 4.5-4
Mercury Impaired Waters of Minnesota

Data Source: MnDNR

Mercury Impaired Lake/Reservoir
Mercury Impaired River/Stream
PWI Rivers and Streams
PWI Lakes

Area Roads
Existing Railroads
Incorporated Limits of Cities/Villages

NorthMet Project
PolyMet Mining, Inc.
St. Louis County, Minnesota
October 2009
Methylmercury Enrichment at 0 cm, 5 cm, and 10 cm Depth Resulting from Experimental 2X and 20X Enrichment of Average Monthly Sulfate Deposition to the Surface of a Pristine Peatland in Northwestern Ontario