

## NewRange NorthMet Mining Project:

### Reference Documents for Permit to Mine Application

*December 13, 2017*

1. [The Minnesota Regional Copper-Nickel Study, 1979 \(PDF\)](#) (8 MB)
2. [The Report on the Mining Simulation Project, 1990 \(PDF\)](#) (7 MB)
3. [Duluth Complex Rock Dissolution and Mitigation Techniques: A Summary of 35 Years of DNR Research, 2012 \(PDF\)](#) (1 MB)
4. NPDES/SDS Permit Application Volume I - Introduction, 2016
5. [Water Appropriation Permit Applications - Individual Non-Irrigation. Prepared for Poly Met Mining, Inc. April 2017. \(PDF\)](#) (213 MB)
6. [Minnesota Geological Survey. Quaternary Geology of the Mesabi Iron Range, Minnesota. Miscellaneous Map M-164 \(PDF\)](#) (9 MB)
7. [Physiography and Surficial Geology of the Copper-Nickel Study Region, Northeastern Minnesota: U.S. Geological Survey Water-Resources Investigations Open-File Report, 1978 \(PDF\)](#) (1 MB)
8. [Recommendations for NorthMet Open Pit Rock Slope Designs – NorthMet Mine Project, 2006 \(PDF\)](#) (1 MB)
9. [Hydrogeology of Fractured Bedrock in the Vicinity of the NorthMet Project \(v3\). December 2014. \(PDF\)](#) (8 MB)
10. [Monitoring Wells North of the Mine Site: Installation and Hydrogeologic Monitoring Plan - NorthMet Project. October 2016. \(PDF\)](#) (6 MB)
11. [Minnesota Well Index \(MWI\)](#)
12. [Ecological Services – Species of Concern](#)
13. [Wetland Plants and Plant Communities of Minnesota and Wisconsin, 2015 \(PDF\)](#) (1 MB)
14. [Soil Survey Geographic Database](#)
15. [Rare Species at PolyMet East, 2004 \(PDF\)](#) (3 MB)
16. [Summaries of Sensitive Species Surveys conducted by MNRI and Additional Sensitive Species Locations from the MNDNR NHIS Database Technical Memorandum, 2011 \(PDF\)](#) (2 MB)

17. [Botrychium \(Moonwort\) Rare Plant Surveys for Polymet Project, 2004 \(PDF\)](#) (12 MB)
18. [Results of Sensitive Plant Species Surveys along Dunka Road and Pipeline Route, 2012 \(PDF\)](#) (1 MB)
19. [Results of Autumn 2007 Field Surveys for Botrychium rugulosum at PolyMet Mine Site Technical Memorandum \(PDF\)](#) (1 MB)
20. [Supplemental Site Specific Resource Information, 1999 \(PDF\)](#) (1 MB)
21. [Memorandum of Agreement Regarding the NorthMet Mining Project, St. Louis County Minnesota. December 2016. \(PDF\)](#) (5 MB)
22. [Minnesota Scientific & Natural Areas map. 2014. \(PDF\)](#) (10 MB)
23. [Identification of Known Calcareous Fens, 2016 \(PDF\)](#) (1 MB)
24. [St. Croix River, Minnesota, Wisconsin](#)
25. [Takings Permit Application - NorthMet Project. October 2017. \(PDF\)](#) (2 MB)
26. [Engineering classification of rock masses for the design of tunnel support, 1974 \(PDF\)](#) (1 MB)
27. NPDES/SDS Permit Application Volume V – Tailings Basin and Beneficiation Plant for Poly Met Mining, Inc., 2016
28. 29. NPDES/SDS Permit Application Volume VI – Hydrometallurgical Residue Facility for Hydrometallurgical Plant for Poly Met Mining, Inc., 2016
29. [Memo to Stuart Arkley, MDNR re: Overburden Geochemical Characterization Plan in Support of EIS - DRAFT NorthMet Project. February 22, 2008. \(PDF\)](#) (1 MB)
30. [Memo to Stuart Arkley, MDNR re: Analysis of Samples from Overburden Drilling Program, NorthMet Project - DRAFT. March 18, 2008. \(PDF\)](#) (2 MB)
31. [PolyMet Overburden Sampling Plan. Email to David Blaha, ERM, Stuart Arkley, DNR, Jennifer Engstrom, DNR. February 26, 2010. \(PDF\)](#) (1 MB)
32. [PolyMet Unsaturated Overburden Sampling Analysis Plan. Email to David Blaha, ERM, Stuart Arkley, DNR, Jennifer Engstrom, DNR. March 3, 2010. \(PDF\)](#) (1 MB)
33. [Memo to Stuart Arkley, MDNR re: Results of Analysis from Overburden Drilling Program - Update for March 2010 Test Pit Program, NorthMet Project - DRAFT. August 13, 2010. \(PDF\)](#) (1 MB)
34. [Memo to Jennifer Engstrom, MDNR re: NorthMet Project Sample Selections for Humidity Cells. November 24, 2005. \(PDF\)](#) (1 MB)
35. [Waste Rock and Lean Ore Geochemical Characterization Plan NorthMet Project, Minnesota. May 2006. \(PDF\)](#) (1 MB)

36. [Memo to Jim Scott, PolyMet Mining re: Update on Kinetic Test Data, NorthMet Project - DRAFT. January 21, 2015. \(PDF\) \(1 MB\)](#)
37. [RS53/RS42 Waste Rock Characteristics/Waste Water Quality Modeling - Waste Rock and Lean Ore - NorthMet Project. February 2007. \(PDF\) \(23 MB\)](#)
38. [Memo to Jennifer Engstrom, MDNR re: NorthMet Project Tailings and Hydromet Residue Testwork - Update on Sample Selection from 24 Hour Testwork. January 6, 2006. \(PDF\) \(1 MB\)](#)
39. [Flotation Tailings and Hydrometallurgical Residue Geochemical Characterization Plan NorthMet Project, Minnesota. May 2006. \(PDF\) \(1 MB\)](#)
40. [RS54/RS46 Waste Water Modeling - Tailings - NorthMet Project - DRAFT. July 2007. \(PDF\) \(4 MB\)](#)
41. [Appendix D - Delivery Package 1A-2: RS33A - Reactive Residues Progress Report, NorthMet Project, Minnesota. May 2006. \(PDF\) \(1 MB\)](#)
42. [Hydrometallurgical Residue Characterization and Water Quality Model - NorthMet Project. RS33/RS65 - Draft-01. Prepared for PolyMet Mining Inc. February 2007. \(PDF\) \(2 MB\)](#)
43. [Memo to Peter Hinck, Barr Engineering Co. re: Update on Tailings Humidity Cell Test Data, NorthMet Project - DRAFT. December 23, 2011. \(PDF\) \(2 MB\)](#)
44. [NorthMet Project Geotechnical Data Package Vol 1 - Flotation Tailings Basin \(v8\). May 2017. \(PDF\) \(41 MB\)](#)
45. [Estimating Bounds on Extreme Precipitation Events: A Brief Assessment. Washington, D.C. : National Academy Press, 1994. \(PDF\) \(1 MB\)](#)
46. [NorthMet Project Geotechnical Data Package Vol 3 - Mine Site Stockpiles \(v5\). July 2016. \(PDF\) \(65 MB\)](#)
47. [2016/2017 Geotechnical Investigation Work Plan - NorthMet Project Geotechnical Investigations. June 2016. \(PDF\) \(2 MB\)](#)
48. [NorthMet Project Geotechnical Data Package Vol 2 - Hydrometallurgical Residue Facility \(v6\). July 2016. \(PDF\) \(42 MB\)](#)
49. [Geotechnical Aspects of Landfill Design and Construction. s.l. : Prentice Hall, Inc., 2002. \(PDF\) \(1 MB\)](#)
50. [Recommended Pond Design Criteria, 2009 \(PDF\) \(2 MB\)](#)
51. [Probable Maximum Precipitation Estimates, United States East of the 105th Meridian \(Hydrometeorological Report No. 51\). June 1978. \(PDF\) \(3 MB\)](#)
52. [Application of Probable Maximum Precipitation Estimates - United States East of the 105th Meridian. August 1982. \(PDF\) \(7 MB\)](#)
53. [NPDES/SDS Permit Application Volume II - Mine Site, 2016 \(PDF\) \(141 MB\)](#)

54. NPDES/SDS Permit Application Volume III - Waste Water Treatment Facility, Waste Water Treatment Plant, 2016
55. NPDES/SDS Permit Application Volume IV - Plant Site Sewage Treatment and Stormwater, 2016
56. NPDES/SDS Permit Application Volume VII - Transportation and Utility Corridors, 2016
57. [Corps of Engineers Wetlands Delineation Manual, 1987 \(PDF\)](#) (1 MB)
58. [Wetlands of the United States – Their Extent and Their Value to Waterfowl and Other Wildlife, 1971 \(PDF\)](#) (38 MB)
59. [St. Paul District Policy for Wetland Compensatory Mitigation in Minnesota. January 2009. \(PDF\)](#) (6 MB)
60. [Application of Federal Mitigation Rule and St. Paul District Policy Guidance on Compensatory Mitigation, 2013 \(PDF\)](#) (1 MB)
61. [Ambient Air Boundary Control Plan - NorthMet Project. May 2017. \(PDF\)](#) (12 MB)
62. [Special Purpose Monitoring Plan - NorthMet Mine Site \(v7\). August 2017. \(PDF\)](#) (5 MB)
63. [Application for a Permit to Construct and Operate \(Air Permit Application\) - NorthMet Project. August 2016.](#)
64. [Engineered Wetlands Pilot Scale Testing WorkPlan - PolyMet Mining. October : s.n., 2016. \(PDF\)](#) (1 MB)
65. [NorthMet Dam Safety Permit Application - Flotation Tailings Basin. April 2017. \(PDF\)](#) (203 MB)

## Reference Documents for Wetland Replacement Plan

*January 5, 2018*

1. [Minnesota Department of Natural Resources, U.S. Army Corps of Engineers, U.S. Forest Service. NorthMet Mining Project and Land Exchange Supplemental Draft Environmental Impact Statement. November 2013.](#)
2. [Minnesota Department of Natural Resources, U.S. Army Corps of Engineers and U.S. Forest Service. Final Environmental Impact Statement: NorthMet Mining Project and Land Exchange. November 2015.](#)
3. [U.S. Army Corps of Engineers, Environmental Laboratory. Corps of Engineers Wetland Delineation Manual. Technical Report Y-87-1. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS. 1987. \(PDF\)](#) (2 MB)

4. [U.S. Army Corps of Engineers. Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Corps of Engineers: Engineer Research and Development Center, Wetlands Regulatory Assistance Program. 2009. Interim Regional Supplement to the Corps of Engineers Wetlands Delineation Manual. ERDC/EL TR-09-19. Vicksburg, MS: U.S. Army Corps of Engineers: Engineer Research and Development Center, Wetlands Regulatory Assistance Program. 2009. \(PDF\) \(8 MB\)](#)
5. [U.S. Army Corps of Engineers. Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Northcentral and Northeast Region \(Version 2.0\). \[ed.\] R.W. Lichvar, C.B. Noble, and J.F. Berkowitz Ed. J.S. Wakeley. Vicksburg, MS : U.S. Army Engineer Research and Development Center, 2011. ERDC/EL TR-12-1. \(PDF\) \(8 MB\)](#)
6. [Eggers, S.D. and D.M. Reed. Wetland Plants and Plant Communities of Minnesota and Wisconsin: Second Edition. U.S. Army Corps of Engineers, St. Paul District. 1997. \(PDF\) \(4 MB\)](#)
7. [Shaw, S.P. and C.G. Fredine. Wetlands of the United States - Their Extent and their Value to Waterfowl and Other Wildlife. Washington, D.C. : U.S. Department of the Interior, 1956. p. 67. Circular 39. \(PDF\) \(38 MB\)](#)
8. [Cowardin, L.M., V. Carter, F.C. Golet, R.T. LaRoe. Classification of Wetlands and Deepwater Habitats of the United States. s.l. : U.S. Fish and Wildlife Service, 1979. p. 103. FWS/OBS079/31. \(PDF\) \(1 MB\)](#)
9. [Barr Engineering Co. RS14 - Wetland Delineation and Wetland Functional Assessment Report \(Draft-02\). \[RS14 - Draft-02\]. November 2006. \(PDF\) \(32 MB\)](#)
10. [Barr Engineering Co. Supplemental Information to the Wetland Delineation Report EIS Report/Study RS-14. Addendum 01. September 2007. \(PDF\) \(9 MB\)](#)
11. [Barr Engineering Co. Wetland Impacts, Tailings Basin Mitigation Alternative Memorandum. Submitted to USACE and MnDNR. \[Memorandum to PolyMet\]. Revised June 2, 2008. \(PDF\) \(4 MB\)](#)
12. [Barr Engineering Co. TB-12 Pipeline Route Habitat/Wetland Analysis for Tailings Basin Alternative. \[Memorandum to PolyMet\]. July 8, 2009. \(PDF\) \(1 MB\)](#)
13. [Barr Engineering Co. Helicopter Aerial Review of Mine Site Area and Tailings Basin Area. 2010. \(PDF\)\(3 MB\)](#)
14. [Barr Engineering Co. NorthMet Project Baseline Wetland Type Evaluation. April 2011. \(PDF\) \(17 MB\)](#)
15. [Barr Engineering Co. Lined Tailings Basin Alternative, EIS Data Request. Technical Memorandum from Gregg Williams at Barr Engineering Company PolyMet Project File, Project No.23/69-862-006-001. April 8, 2008. \(PDF\) \(18 MB\)](#)
16. Incorrect citation. No reference should be cited here.
17. [Barr Engineering Co. Takings Permit Application - NorthMet Project. October 2017. \(PDF\) \(2 MB\)](#)

18. [U.S. Army Corps of Engineers St. Paul District. St. Paul District Policy for Wetland Compensatory Mitigation in Minnesota. January 2009. \(PDF\) \(5 MB\)](#)
19. [Barr Engineering Co. Permit to Mine Application. Prepared for Poly Met Mining, Inc. NorthMet Project. December 2017.](#)
20. [U.S. Army Corps of Engineers and Minnesota Department of Natural Resources. NorthMet Project Draft Environmental Impact Statement. 2009.](#)
21. [Poly Met Mining Inc. Revised Wetland Permit Application \(v2\). August 19, 2013. \(PDF\) \(189 MB\)](#)
22. [Minnesota Department of Natural Resources. Record of Decision \(ROD\) In the Matter of the Final Environmental Impact Statement for the PolyMet Mining, Inc., NorthMet Mining Project and Land Exchange, St. Louis County, Minnesota, Pursuant to Minnesota Rules, Parts 4410.0200 to 4410.6500. March 3, 2016. \(PDF\) \(1 MB\)](#)
23. [Labovitz School of Business and Economics. Employment, Economic and Social Impacts of PolyMet's NorthMet Project and other Industrial Projects of Minnesota's East Range Communities. 2006. \(PDF\) \(2 MB\)](#)
24. [Bateman Engineering Pty Ltd. PolyMet Mining Corporation NorthMet Project Definitive Feasibility Study. September 2006. \(PDF\) \(1 MB\)](#)
25. [Saran, Jennifer \(PolyMet Mining\). Email to Lisa Fay, Bill Johnson, and Irina Comardicea \(DNR\) re: project description items. October 20, 2014. \(ZIP\) \(.zip, 2 MB\)](#)
26. [Barr Engineering Co. NPDES/SDS Permit Application Volume V. Tailings Basin and Beneficiation Plant for Poly Met Mining, Inc. October 2017. \(PDF\) \(59 MB\)](#)
27. [Poly Met Mining, Inc. NorthMet Project Geotechnical Data Package Vol 2 - Hydrometallurgical Residue Facility \(v6\). July 2016. \(PDF\) \(41 MB\)](#)
28. [Poly Met Mining Inc. NorthMet Project Project Description \(v9\). March 2015. \(PDF\) \(22 MB\)](#)
29. [Minnesota Department of Natural Resources; U.S. Army Corps of Engineers; U.S. Forest Service. NorthMet Project underground mining alternative assessment for the NorthMet Mining Project and land exchange Environmental Impact Statement. February 5, 2013. \(PDF\) \(3 MB\)](#)
30. [Minnesota Department of Natural Resources. NorthMet Mine and Ore Processing Facilities Project Final Scoping Decision Document \(SDD\). October 25, 2005. \(PDF\) \(1 MB\)](#)
31. [Minnesota Department of Natural Resources. Ecological Classification System. \[Online\] 2010. <https://www.dnr.state.mn.us/ecs/index.html>. \(PDF\) \(1 MB\)](#)
32. [U.S. Department of Agriculture, Natural Resources Conservation Service. Unofficial conversion for USFS Landtype Phases to NRCS Series or Concepts. Duluth, Minnesota : s.n., Unpublished Report 2005. \(PDF\) \(1 MB\)](#)

33. [U.S. Army Corps of Engineers. PolyMet NorthMet EIS, Wetland Resources IAP Final Summary Memo. July 2011. \(PDF\) \(1 MB\)](#)
34. [U.S. Army Corps of Engineers, U.S. Department of Agriculture Forest Service. Biological Assessment for the Proposed NorthMet Project and Land Exchange. April 2015. \(PDF\) \(41 MB\)](#)
35. [ENSR, International. Winter 2000 Wildlife Survey for the Proposed NorthMet Mine Site, St. Louis County, MN. 2004. \(PDF\) \(1 MB\)](#)
36. [ENSR. NorthMet Mine Summer 2004 Wildlife Study. \(PDF\) \(27 MB\)](#)
37. [Foth and Van Dyke. Supplemental Site Specific Resource Information. PolyMet Mining Corporation NorthMet 1999 Exploration Project. Report Prepared for PolyMet Mining. 1999. \(PDF\) \(1 MB\)](#)
38. [Groh-Johnson, Cindy. Botrychium \(Moonwort\) Rare Plant Surveys for Polymet Project July 2004. 2004. \(PDF\) \(12 MB\)](#)
39. [Pomroy, Deborah and Raymond Barnes. 2004 Rare Plant Survey at the PolyMet Mine Site Located in T59N R13W. 2004. \(PDF\) \(7 MB\)](#)
40. [Walton, Gary. Data Summary: Rare Plant Survey. 2004. \(PDF\) \(3 MB\)](#)
41. [Barr Engineering Co. Results of Autumn 2007 Field Surveys for Botrychium rugulosum in Proposed Land Exchange Parcels at PolyMet Mine Site. 2007. \(PDF\) \(4 MB\)](#)
42. [Barr Engineering Co. Results of Sensitive Plant Species Surveys along Dunka Road and Pipeline Route. 2008. \(PDF\) \(1 MB\)](#)
43. [Barr Engineering Co. Summaries of Sensitive Species Surveys Conducted by MNRI and Additional Sensitive Species Locations from the MNDNR NHIS Database. 2011. \(PDF\) \(2 MB\)](#)
44. [Barr Engineering Co. Sensitive Plant Species Survey Report: PolyMet Plant Site. October 5, 2017. \(PDF\) \(7 MB\)](#)
45. [U.S. Forest Service, Superior National Forest; U.S. Army Corps of Engineers. Memorandum of Agreement Regarding the NorthMet Mining Project, St. Louis County Minnesota. December 2016. \(PDF\) \(6 MB\)](#)
46. [Minnesota Department of Natural Resources; Minnesota Board of Water & Soil Resources. Wetland Conservation Act Technical Guidance on Rare Natural Communities. February 28, 2017. \(PDF\) \(1 MB\)](#)
47. [Minnesota Department of Natural Resources; Minnesota Board of Water & Soil Resources. Wetland Conservation Act Technical Guidance on Rare Natural Communities. November 7, 2017. \(PDF\) \(1 MB\)](#)
48. [Minnesota Department of Natural Resources. Field Guide to the Native Plant Communities of Minnesota: The Laurentian Mixed Forest Province. s.l. : Ecological Land Classification Program,](#)

[Minnesota County Biological Survey, and Natural Heritage and Nongame Research Program, St. Paul, MN, 2003. \(PDF\) \(13 MB\)](#)

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50. [Minnesota Department of Natural Resources. Minnesota Biological Survey - Native Plant Communities. GIS shapefile. The DNR Data Deli. \[Online\] <http://deli.dnr.state.mn.us/metadata.html?id=L250000040201>. \(PDF\) \(1 MB\)](#)
51. [Minnesota Geospatial Information Office. Minnesota Geospatial Commons. \[Online\] 2016. <https://gisdata.mn.gov>. \(PDF\) \(1 MB\)](#)
52. [Emmons & Oliver Resources, Inc. Cumulative Effects Analysis on Wildlife Habitat and Travel Corridors in the Mesabi Iron Range and Arrowhead Regions of Minnesota. 2006. \(PDF\) \(10 MB\)](#)
53. [Barr Engineering Co. Cumulative Effects Analysis of Wildlife Habitat and Threatened and endangered Wildlife Species: Keetac Expansion Project. 2009. \(PDF\) \(41 MB\)](#)
54. [U.S. Army Corps of Engineers St. Paul District. Application of the Federal Mitigation Rule and St. Paul District Policy Guidance on Compensatory Mitigation, Compensation Ratios for Loss of Wetlands/Aquatic Resources. Draft Memorandum. May 29, 2013. \(PDF\) \(1 MB\)](#)
55. [Barr Engineering Co. Wetland Hydrology Monitoring Report 2007-2009. March 2010. \(PDF\) \(15 MB\)](#)
56. [Barr Engineering Co. Wetland Hydrology Study Report 2006 \(RS44\). \[RS44 Draft-02\]. November 20, 2006. \(PDF\) \(21 MB\)](#)
57. [Barr Engineering Co. Preliminary Wetland Hydrology Study Report 2005 \(RS44\). 2006. \(PDF\) \(21 MB\)](#)
58. [Barr Engineering Co. Wetland Hydrology Study Plan. June 24, 2005. \(PDF\) \(3 MB\)](#)
59. [Barr Engineering Co. Addendum to Wetland Hydrology Monitoring Plan. May 13, 2008. \(PDF\) \(4 MB\)](#)
60. [Barr Engineering Co. Addendum to Wetland Hydrology Study Plan. April : 12, 2010. \(PDF\) \(1 MB\)](#)
61. [U. S. Army Corps of Engineers. Technical Standard for Water-Table Monitoring of Potential Wetland Sites. Wetland Regulatory Assistance Program. ERDC TN-WRAP-05-02. June 2005. \(PDF\) \(2 MB\)](#)
62. [Barr Engineering Co. Potential Indirect Wetland Impact Vegetation Monitoring Plan Memorandum to Steve Eggers \(USACE\), Colleen Allen \(MNDNR\). Prepared for Poly Met Mining Inc. NorthMet Project. June 8, 2015. \(PDF\) \(2 MB\)](#)
63. [Barr Engineering Co. Effect of Spring Mine Lake Restoration Project on Stream Augmentation for Unnamed \(Mud Lake\) Creek. November 7, 2016. \(PDF\) \(1 MB\)](#)

64. [Barr Engineering Co. Wetland Hydrology Monitoring Report Summary 2005-2016 v1. February 2017. \(PDF\)](#) (90 MB)

## Permit Related Documents

### State consultant financial assurance reports

*Added on January 11, 2017*

1. [Financial and Technical Metrics \(PDF\)](#) (1 MB)
2. [PolyMet Financial Capabilities \(PDF\)](#) (2 MB)
3. [Case Studies \(PDF\)](#) (1 MB)

### Initial Permit to Mine Application

*November 3, 2016*

To view PolyMet's initial Permit to Mine application in PDF format please use the links below:

1. [Cover Letter - Permit to Mine Application \(PDF\)](#) (1 MB)
2. [Permit to Mine Application \(PDF\)](#) (22 MB)
3. [Proposed Waste Water Treatment System \(WWTS\) Relocations \(PDF\)](#) (4 MB)

*Added on April 11, 2017*

### Appendix Documents for Initial Permit to Mine Application

1. [Appendix 1 - Regulatory Filings and Compliance Documents \(PDF\)](#) (3 MB)
2. [Appendix 2 - Mine Waste Characterization Documentation and Results \(PDF\)](#) (52 MB)
3. [Appendix 3 - Mine Site and Dunka Road Earthwork Permit Application Support Drawings \(PDF\)](#) (8 MB)
4. [Appendix 4 - Categories 1, 2/3, and 4 Stockpiles and Ore Surge Pile Design and Category 1 Stockpile Groundwater Containment System Permit Application Support Drawings \(PDF\)](#) (87 MB)
5. [Appendix 5 - Mine Site Stormwater Permit Application Support Drawings \(PDF\)](#) (19 MB)
6. [Appendix 6 - Flotation Tailings Basin and FTB Seepage Containment and Stream Augmentation Systems Permit Application Support Drawings \(PDF\)](#) (40 MB)

7. [Appendix 7 - Hydrometallurgical Residue Facility Permit Application Support Drawings \(PDF\)](#) (22 MB)
8. [Appendix 8 - Mechanical Infrastructure Permit Application Support Drawings \(PDF\)](#) (19 MB)
9. [Appendix 9 - Sewage Treatment System Permit Application Support Drawings \(PDF\)](#) (4 MB)
10. [Appendix 10 - Plant Site Stormwater Permit Application Support Drawings \(PDF\)](#) (9 MB)
11. [Appendix 11 - Mine Site: Management and Monitoring Plans Outlines \(PDF\)](#) (3 MB)
12. [Appendix 12 - Plant Site: Management and Monitoring Plans Outlines \(PDF\)](#) (3 MB)
13. [Appendix 13 - Annual Report \(PDF\)](#) (3 MB)
14. [Appendix 14 - Reclamation, Closure and Postclosure Plan \(PDF\)](#) (3 MB)
15. [Appendix 15 - Financial Assurance \(PDF\)](#) (168 MB)  
*Updated on November 4, 2016: Added pages 1176-1179 in the PDF*  
*Updated again on March 28, 2017: Added pages 1157-1174 in the PDF*
16. [Appendix 16 - Final Environmental Impact Statement and Related Environmental Reports \(PDF\)](#) (1.3 GB)
17. [Appendix 17 - Work Plans \(PDF\)](#) (6 MB)
18. [Appendix 18 - Wetland Related Reports \(PDF\)](#) (64 MB)<  
*Updated on November 9, 2016: Added pages 4-8 in the PDF*

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15. [Supplemental Site Specific Resource Information, 1999 \(PDF\)](#) (1 MB)
16. [Areas of Biodiversity Significance in Minnesota as Determined by the Minnesota Biological Survey \(MBS\), 2014 \(PDF\)](#) (3 MB)
17. [Identification of Known Calcareous Fens, 2016 \(PDF\)](#) (1 MB)
18. [St. Croix River, Minnesota, Wisconsin](#)
19. [Final Designation of Protected Waters and Wetlands within St. Louis County, Minnesota, 1985 \(PDF\)](#) (1 MB)
20. [Protected Waters and Wetlands Map of St. Louis County, Minnesota, 1996 \(PDF\)](#) (1 MB)
21. [Engineering classification of rock masses for the design of tunnel support, 1974 \(PDF\)](#) (1 MB)
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25. [Recommended Pond Design Criteria, 2009 \(PDF\)](#) (2 MB)
26. NPDES/SDS Permit Application Volume I - Introduction, 2016
27. [NPDES/SDS Permit Application Volume II - Mine Site, 2016 \(PDF\)](#) (145 MB)
28. NPDES/SDS Permit Application Volume III - Waste Water Treatment Facility, Waste Water Treatment Plant, 2016
29. NPDES/SDS Permit Application Volume IV - Plant Site Sewage Treatment and Stormwater, 2016
30. NPDES/SDS Permit Application Volume VII - Transportation and Utility Corridors, 2016

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