

LIST OF PREPARERS

Name and Affiliation	SDEIS Responsibility and Qualifications
Minnesota Department of Natural Resources	
Lisa Fay	Project Manager B.S. Natural Resources and Environmental Studies 18 years experience in environmental review
Stuart Arkley	Project Manager B.S. Chemistry with Industrial Economics, J.D. Law 20 years environmental experience including environmental review, environmental policy, permitting, and rule development
Dave Antonson	Mining Reclamation A.A.S. Environmental Analysis 28 years experience in mineland reclamation planning, permitting, and environmental review
Michael Berndt, Ph.D.	Research Scientist 3 B.S. Geology; B.S. Geophysics; M.S. Geology; Ph.D. Geology 25 years research experience specializing in aqueous geochemistry
Jason Boyle	Dam Safety Engineer B.S. Civil Engineering 12 years experience in dam safety regulation
Dana Dostert	Geotechnical Engineer B.S. Geophysics; B.S. Geotechnical Engineer 25 years experience in dam engineering, including hydrologic, hydraulic, and geotechnical engineering, dam failure analysis, and computer modeling related to dams
John Engesser	Assistant Director, DNR Lands and Minerals BChE, B.S. Chemistry and Mathematics 31 years experience in mineral beneficiation research and mineral chemical extraction research

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Jennifer Engstrom	Mineland Reclamation Section Manager B.A. Geology and Environmental Studies; M.S. Geology 14 years experience in mining research; 7 years experience in environmental review and permitting for mining projects
Mike Kunz, P.G.	Principal Planner B.S. Geology 25 years experience of technical and management experience in environmental impact assessment feasibility studies, regulatory review/compliance, and permitting, 2 years experience in mining environmental review/permitting
Anne Jagunich	Mineland Reclamation Specialist, Sr. B.S. Watershed Management and Soil Science 29 years experience in mine reclamation permitting, monitoring, and research
Julie Jordan	Mineland Reclamation Specialist, Sr. B.S. Biology; M.S. Biology (Mineland Reclamation Emphasis) 27 years experience in mineland reclamation , planning, permitting, and environmental review
Lisa Joyal	Endangered Species Environmental Review Coordinator B.S. Wildlife Biology; B.A. Zoology; M.S. Wildlife Ecology 12 years experience in wildlife and wetland research and environmental review
Michael Liljegren	Hydrogeologist B.S. Geosciences 19 years experience in hydrogeology/hydrology and 9 years in mine permitting and environmental review
Doug Norris	Wetlands Program Coordinator B.S. Wildlife Science; M.S. Fisheries and Wildlife 25 years experience in environmental review and wetlands regulation

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Michael Olson	Mining Reclamation Specialist, Sr. B.S. Geology; B.S. Geophysics 5 years experience in environmental review for mining
Kate Paul	Mine Reclamation Specialist, Sr. B.S. Biology; M.S. Wildlife Ecology 4 years experience in environmental review and permitting for mining projects
Zach Wenz, Ph.D.	Environmental Research Scientist B.S. Geology; M.S. Geology; Ph.D. Geology 4 years research experience in geochemistry
U.S. Army Corps of Engineers	
Tom Hingsberger	Project Manager B.A. Geology 15 years geology experience in civil works and 8 years experience in regulatory project management
Doug Bruner	Lead Project Manager for Mining B.A. Geology; M.S. Engineering Geology 8 years experience in environmental geology/hydrogeology and 7 years regulatory project management
Steve Eggers	Wetland Mapping, Impacts and Mitigation B.S. Biology; Professional Wetland Scientist 33 years experience in Corps regulatory program involving wetland delineation, wetland impact assessment, and wetland mitigation
Brad Johnson	Cultural Resources Manager B.A. Anthropology; M.A. Interdisciplinary Archaeological Studies 32 years archaeology experience

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Jeffrey McGrath	Socioeconomic Review B.S. Agricultural and Applied Economics 33 years experience in Water Resource Planning
Neil Schwanz, P.E.	Geotechnical Engineer, Regional Technical Specialist B.C.E. Civil Engineering; M.C.E. Geotechnical 33 years experience in geotechnical engineering and design including embankment and structural dam design and remediation
U.S. Forest Service	
Shirley Frank	Environmental Coordinator B.S. Forest Resources 23 years NEPA and environmental planning experience
Susan Duffy	Recreation and Wilderness Program Manager B.S. Forestry and Natural Resource Management 29 years experience in forestry, recreation, wilderness, and NEPA
Henry Eichman	Economist B.A. Biology; M.S. Agricultural and Resource Economics 8 years experience in Environmental, Resource and Regional Economics and 6 years experience in NEPA and land management planning
Michael Jimenez	Forest Planner B.S. Natural Resource Management 24 years experience in NEPA and forest planning
Lee Johnson	USFS Cultural Resource Technical Lead B.A. Anthropology; M.A. Anthropology 12 years of review and compliance experience in cultural resources and historic preservation

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Casey McQuiston	Forest Soil Scientist B.S. Biology 11 years experience in soil science and forest ecology
Lisa Radosevich-Craig	Tribal Liaison B.A. Political Science 15 years experience in federal public policy, public lands policy, and tribal relations
Dan Ryan	USFS Natural Resource Liaison B.S. Wildlife; B.S. Biology; M.S. Wildlife Biology 15 years experience in natural resource management and environmental planning
Marty Rye	Forest Hydrologist B.S. Agricultural Engineering – Soil and Water; B.S Civil Engineering – Water Resources 23 years experience as a hydrologist, water resource manager, and engineer
Elizabeth Schleif	Realty Specialist B.S. Civil & Environmental Engineering, Juris Doctorate (J.D.) 22 years real estate and surveying experience with the USDA Forest Service, 8 years private practice as property and business attorney
Mary Shedd	Natural Resources Team Leader B.A. Wildlife Ecology 33 years experience with USFS, including 4 years serving as Natural Resources Team leader
Sandra G. Skrien	Public Service Team Leader, Superior National Forest B.S. Biology 35 years experience working with USFS in Recreation, Wilderness, Land Use, and Visitor Services

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Troy Thompson	Eastern Region Regional Hydrogeologist B.S. Geology; M.S. Geology 23 years total geological/hydrogeological experience (3 years oil and gas exploration, 18 years environmental hydrogeology, 2 years Federal land management with USFS)
Trent Wickman	Air Resource Management B.S. Environmental Engineering; B.S. Biology; M.S. Environmental Engineering 11 years experience in federal land management including assessing impacts to air quality related values of Class I areas, 6 years experience as an air quality permit engineer
Minnesota Pollution Control Agency	
Suzanne Baumann	Metallic Mining Sector Supervisor B.S. Biology 10 years experience in air quality compliance and enforcement, environmental review, and multi-media permitting
Erik Carlson	Metallic Mining Sector Supervisor B.S. Planning, Public Policy, and Management; M.S. Environmental Planning 10 years experience in urban and environmental planning and project management
Richard Clark, P.G.	Hydrogeologist B.S. Geological Engineering; M.S. Geology 22 years experience in water quality permitting and review of mining projects
Kristie Ellickson, Ph.D.	Air Risk Assessor B.A. Chemistry; Ph.D. Environmental Sciences/Public Health 4 years experience in human health risk assessment, trace metals speciation, fate/transport, and bioavailability
Ann Foss	Mining Sector Director B.S. Agricultural Engineering; M.S. Theoretical Mathematics 13 years multimedia permitting, environmental review, and compliance and enforcement experience with the mining sector

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Anne Jackson	Principal Engineer B.S. Civil Engineering 22 years air emissions standards development and environmental review
Hongming Jiang, P.E.	Research Scientist B.S., M.S., Ph.D. in Agricultural Engineering 18 years air quality permitting for mining facilities and projects
Bruce Monson	Research Scientist III B.S. Zoology; M.S. Biology; Ph.D. Civil Engineering 26 years experience in environmental experience, specializing in mercury cycling and bioaccumulation
Catherine Neuschler	Planner Senior; Air Policy and Mobile Sources Unit B.A. Environmental Studies and Political Science; Master of Public Affairs 6 years experience in the State Implementation Plan, criteria pollutants, and visibility policy
Ruth Roberson	Research Scientist B.S. Agriculture; M.S. Soil Science (soil physics) 4 years experience as a research scientist conducting and reviewing atmospheric dispersion modeling for air quality and regulatory compliance purposes
Sarah Seelen	Air Permit Engineer B.A. Environmental Science; M.S. Environmental Engineering 5 years experience in air permit and environmental engineering
Ed Swain, Ph.D.	Research Scientist B.A. Biology; Ph.D. Ecology 23 years of research experience with acid deposition and mercury

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Environmental Resources Management (ERM) and ERM subcontractors	
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Al Trippel	Project Manager B.S. Geology; M.S. Geology 25 years working in mining industry and EHS and sustainability consulting
Debra McGovern	Deputy Project Manager B.A. Botany; M.S. Biology More than 30 years experience in environmental regulatory programs for government and private industry
Dave Blaha, A.I.C.P.	Technical Water Lead; MEPA/NEPA Expert; Senior QA/QC B.A. Biology; Master of Environmental Management 26 years experience with NEPA, stakeholder engagement, and agency consultation
John L. Adams	Water Resources B.S. Forest Hydrology 31 years experience in mining hydrology, 10 years experience in forest hydrology
Adeyinka Afon	Noise B.S. Chemical Engineering, M.S.E. Environmental Process Engineering 4 years of consulting experience in environmental impact assessments, feasibility studies, and environmental permitting & compliance with specialization in air quality, air emissions inventory, noise, vibration, surface water quality, and sediment quality
Andy Bielakowski	Tribal and Cultural Resources B.S., B.A. Anthropology, Classical Civilizations, Philosophy; M.A. Archaeology 13 years experience in cultural resources and environmental impact assessment, survey, consultation, permitting, and impact mitigation
Alan Finio	Cumulative Effects B.S. Environmental Science 25 years of management and technical experience with environmental impact assessment, permitting, and environmental compliance

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Pat Fleischauer	Senior Technical Lead; Senior Technical Editor B.A. Mathematics; M.S. Management; M.A. Economics, C. Phil Economics More than 30 years experience preparing NEPA- and state-mandated environmental impact assessments for private industry and public agencies
Heather Heater	Land Exchange and Wetlands B.S. Marine Biology; M.S. Environmental Resource Management 12 years experience in environmental impact assessments/statements, feasible studies, environmental permitting including NEPA, and agency consultation
Steve Koster, P.E.	Biological and Natural Resources Technical Lead B.S. Letters and Engineering; B.S. Civil Engineering; M.S. Environmental Engineering 26 years experience in environmental impact assessment, permitting, and impact mitigation and remediation
Danny Kringel	Air Resources and Climate Change B.A. Mathematics 29 years experience in the management of a variety of air pollution studies, including dispersion modeling, air quality permitting, odor evaluations, air toxics/risk assessments, and litigation support
Dirk Leemkuil	Hazardous Materials and Legacy Contamination B.S. Geology 30 years experience in soil and groundwater contaminant assessment, investigation and corrective action; environmental assessment and environmental compliance
Howard Levine	Senior Technical Lead; NEPA/MEPA Specialist B.A. Geography; Masters of Professional Studies 25 years experience in environmental impact assessments
Steve Peterson, Ph.D.	Fish and Macroinvertebrates; Mercury B.S. Biological Sciences, Ph.D. Biological Sciences 25 years environmental impact and risk analysis focusing on ecological fate and effects of pollutants in aquatic ecosystems

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Benjamin Sussman, A.I.C.P.	Land Use; Recreation and Visual Resources; Socioeconomics B.S. Science, Technology, and Society; MCRP City and Regional Planning 13 years experience in urban planning and impact assessment, focusing on land use, socioeconomics, transportation, recreation, and visual resources
Jeff Williams	Fish and Macroinvertebrates B.S. Biology 19 years experience in fisheries, aquaculture, wetland and habitat assessments, baseline environmental surveys, impact assessments and permitting
Houston Kempton Knight Piesold	Environmental Geochemist B.S. Geology and Geography; M.S. Geology 22 years experience in environmental geochemistry and hydrogeology related to modeling the mobility and removal of metals at hard-rock mines, and pilot testing of in situ groundwater remediation technologies
Bryan Ulrich, P.E., Pr. Eng. Knight Piesold	Geotechnical Engineer B.S. Mining Engineering; B.S. Geological Engineering; M.E. Geotechnical Engineering 25 years experience in the design, construction and assessment of civil/geotechnical design for mine facilities, including tailings facilities, heap leach pads, and waste rock facilities
Fred Marinelli, Ph.D., P.E. InTerra Logic	Groundwater Hydrologist; GoldSim Modeler B.A. Geology; M.S. Hydrology; Ph.D. Civil Engineering 35 years experience in all aspects of groundwater hydrology and hydraulics; 10 years experience developing dynamic system models for water management