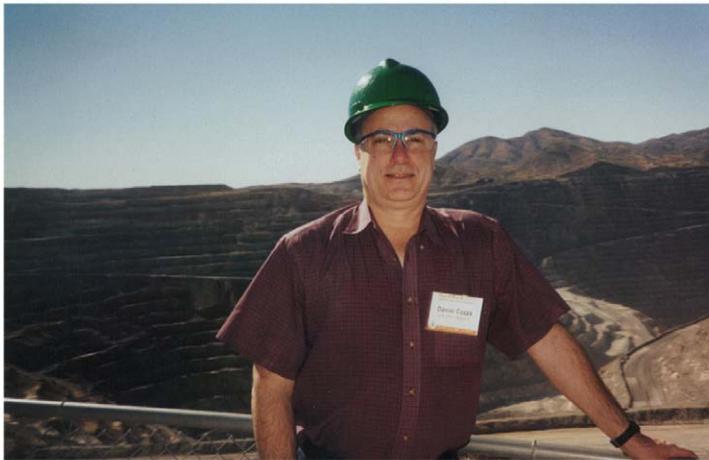


MINING IN YOUR BACKYARD

Using your CWA 106 and CWA 319



Dan Cozza, U.S. EPA – Region 5
National Tribal Conference
Pueblo of Pojoaque
November 16, 2011

Mining

- ▶ Unlike most other large industry
 - Ore is where it's @
- ▶ Types of mining
 - Underground
 - Open pit
- ▶ Impacts
- ▶ National Industry and International

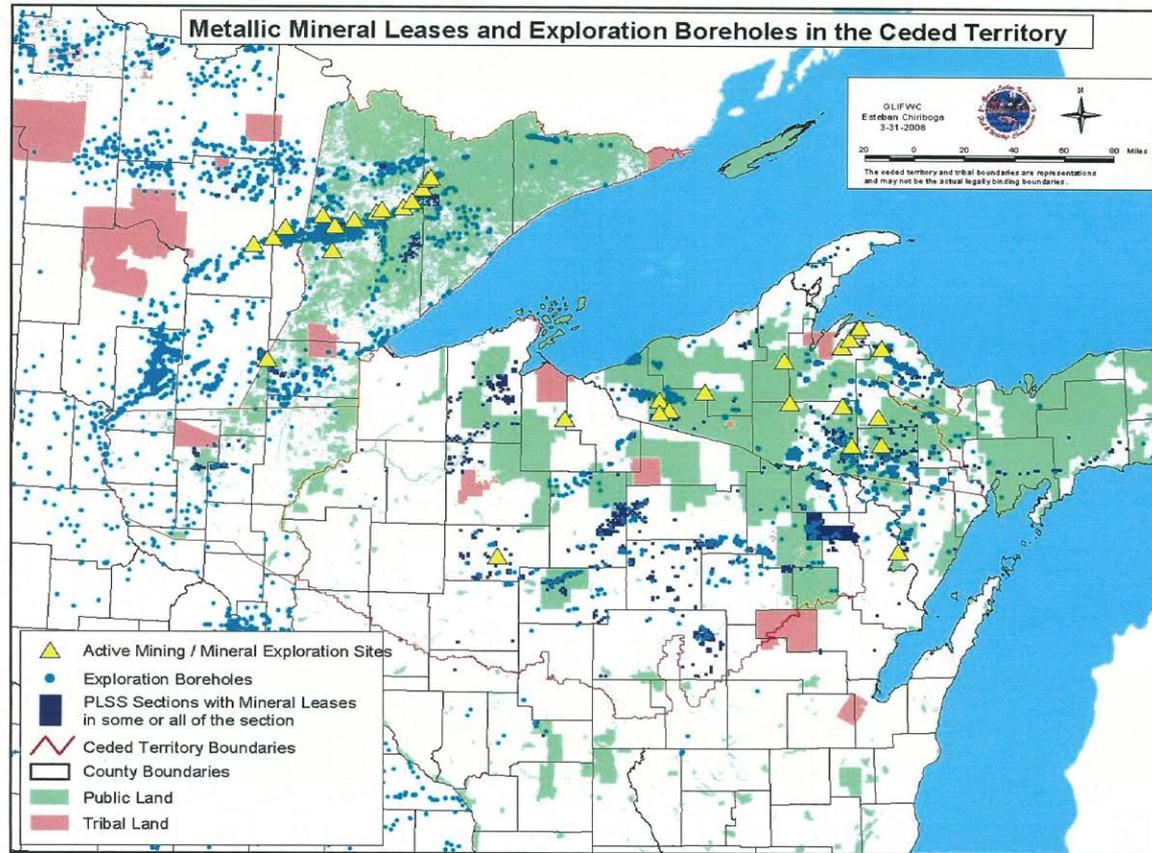


Mining

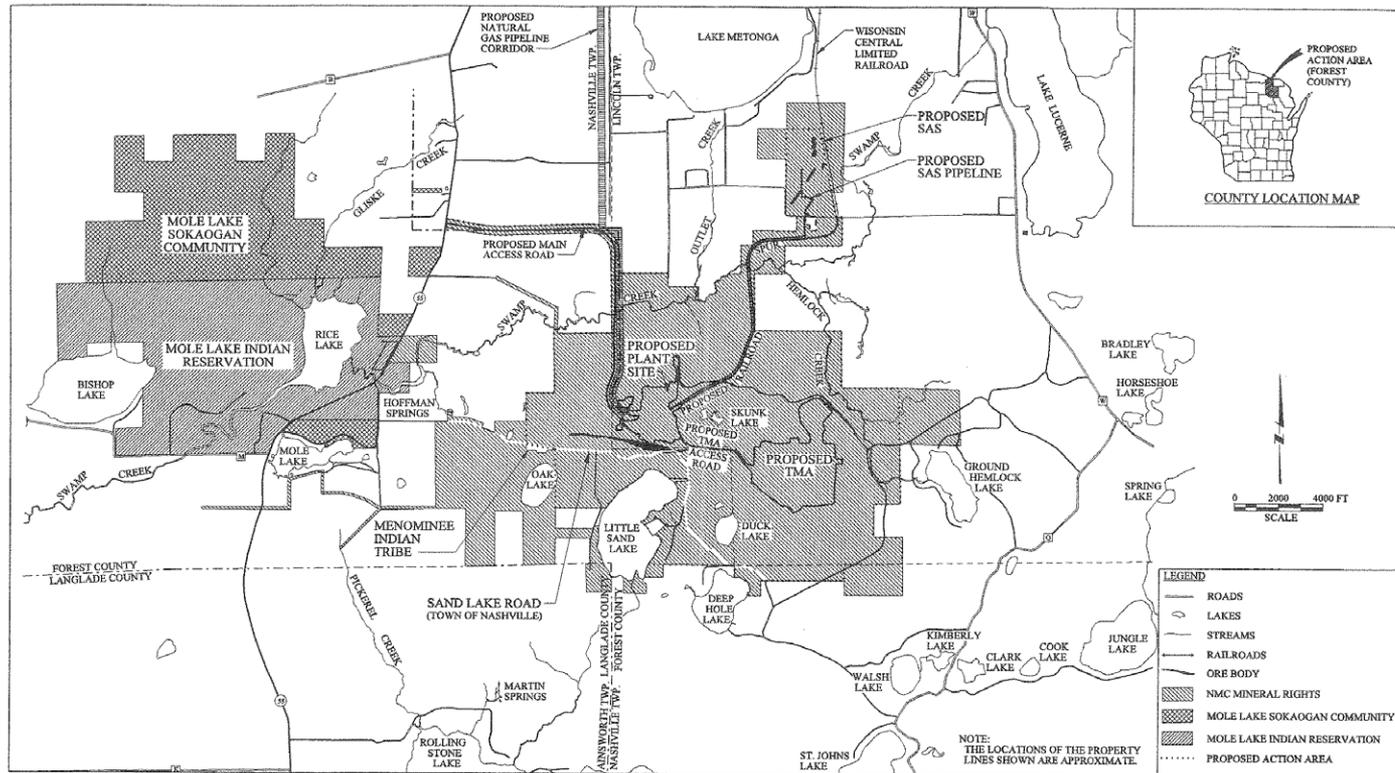
- ▶ Expanding – more exploration, expansion of current operations
- ▶ Economy – Jobs now!
- ▶ Permits/EIS – on Fast Track
- ▶ On/Near Reservations/Ceded Territory
- ▶ Region 5 Examples: Sokaogon Chippewa, Forest County Potawatomi, Bad River, Keweenaw Bay, Fond du Lac, Grand Portage, More to come



Mining in the Midwest



Region 5 – Sokaogon Chippewa and FCP – Crandon Mine



Crandon Mine



THE CRANDON PROJECT - FACTS AND FIGURES

PROJECT DATA

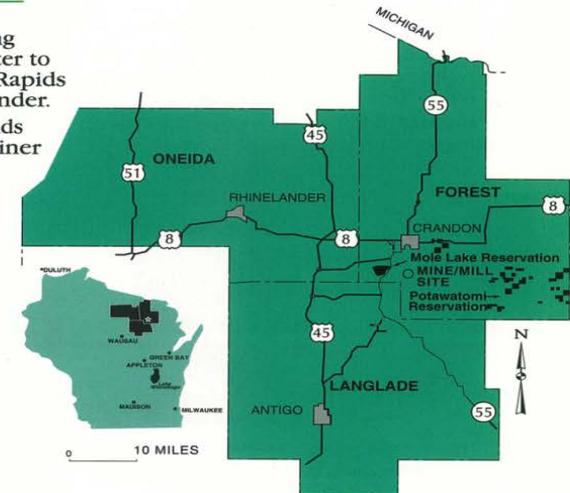
Project location	Forest County, 5 miles south of Crandon.								
Project site	550 acres including mine, mill and all related facilities.								
Orebody	55 million tons of recoverable ore, primarily zinc and copper, smaller amounts of lead, silver and gold.								
Production rate	5,500 tons of ore per day, extracted by underground methods.								
Project Schedule	<table border="0"> <tr> <td>Construction</td> <td>3 years</td> </tr> <tr> <td>Operations</td> <td>28 years</td> </tr> <tr> <td>Reclamation</td> <td>4 years</td> </tr> <tr> <td>Long-term care</td> <td>40+ years</td> </tr> </table>	Construction	3 years	Operations	28 years	Reclamation	4 years	Long-term care	40+ years
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Operations	28 years								
Reclamation	4 years								
Long-term care	40+ years								

ENVIRONMENTAL PROTECTION

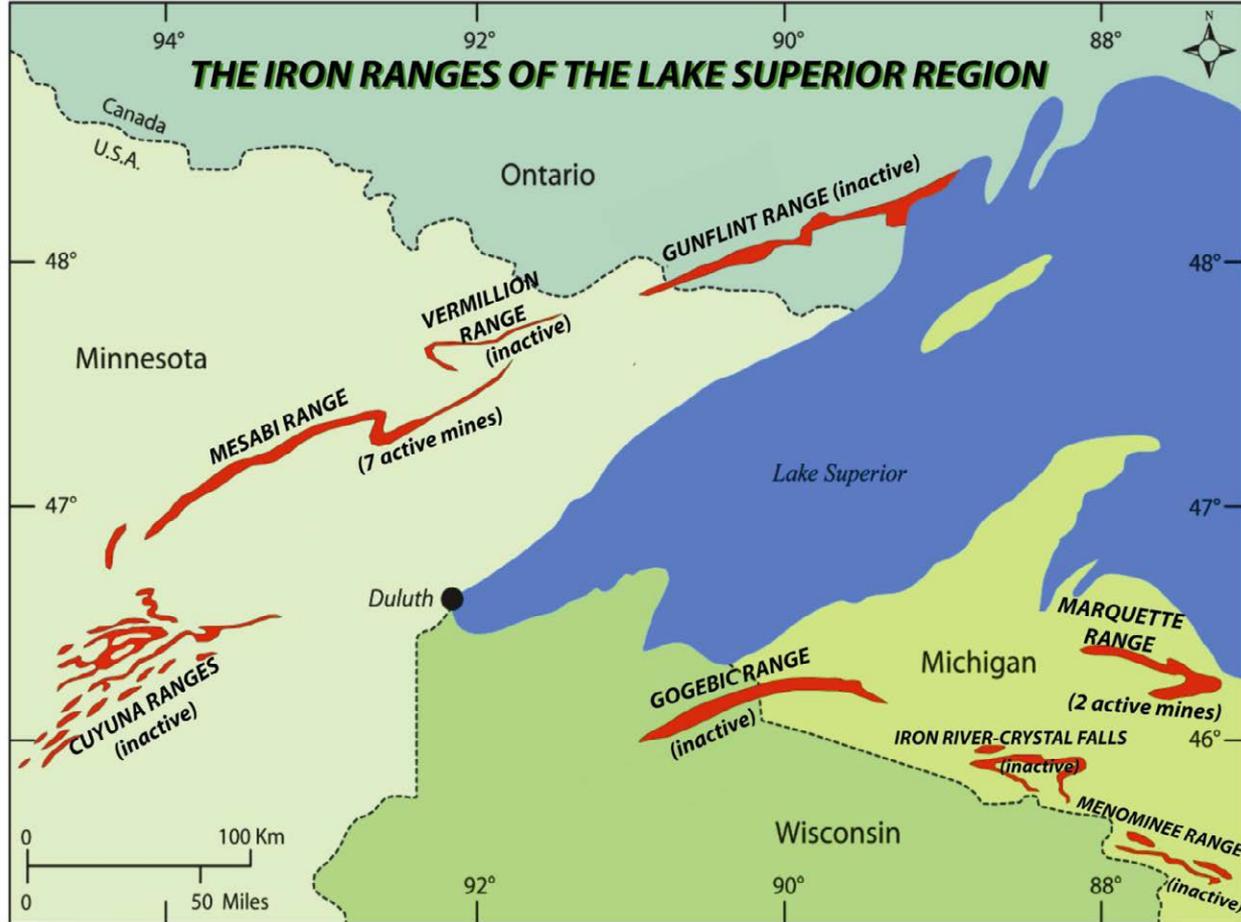
Surface water	Sophisticated water treatment plant releasing high-quality treated water to Wisconsin River at Hat Rapids Dam, south of Rhinelander.
Groundwater	Engineered tailings ponds with top and bottom liner systems, drain system, monitoring wells and other safeguards.
Other control	Project design minimizes air emissions, noise, erosion and runoff.
Permits	More than 40 federal, state and local permits required.

ECONOMIC BENEFITS

Employment	550 construction employees at peak (30% local hires); 402 full-time operations employees for 28 years (70% local hires); 341 jobs in related businesses.
Local purchases	\$43 million total during 3 years of construction; \$1.2 million annually during 28 years of operations.
Tax revenue	\$119 million in Net Proceeds Taxes over project life. \$110 million increase in local tax base, benefiting towns of Lincoln and Nashville, Forest County, Crandon School District.



Region 5 – Bad River Gogebic Range





9/4/2010 12:59:00 AM

- **Mining project could mean hundreds of jobs**
HURLEY -- Cline Resource and Development of West Virginia has the option to purchase the mineral rights on thousands of acres of property between Upson and Mellen, Wis., for development of an open pit mining project that could boost the area's economy.

Cline Resource is the parent company for Gogebic Taconite LLC, from Palm Beach Gardens, Fla.

Gogebic Taconite is conducting a feasibility study to determine whether the company will move forward with its mining proposal, which covers 22 miles in width by 1,200 feet between Upson, in Iron County, and Mellen, in Ashland County, according to Kelly Klein from the Iron County Development Zone Council.

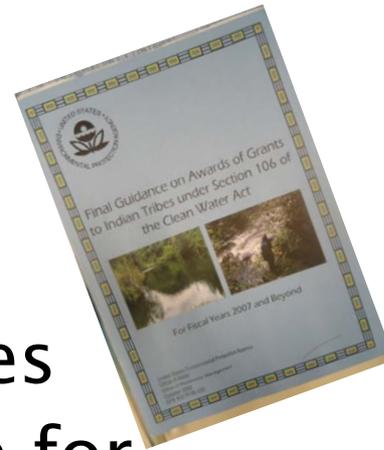
What to look at for 106/319

- ▶ Know what the mining company will be doing
- ▶ Review their proposals
- ▶ Tailor your CWA 106 monitoring program to cover the major and even the minor aspects of their plans
- ▶ Anticipate impacts to NPS
 - Include in your Management Plan and Assessment Report
- ▶ Potential impacts to Tribal waters



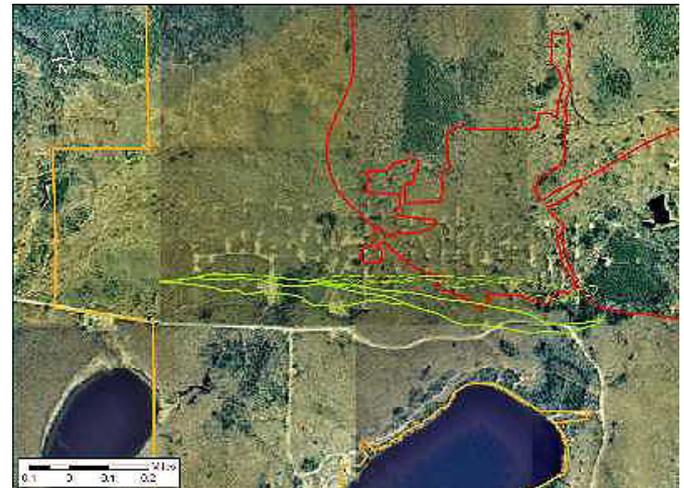
How to use your 106 and 319

- ▶ Monitoring
- ▶ Watershed Plans
- ▶ Ordinances
- ▶ Wetland delineation/studies
- ▶ TAS – Treatment as a State for CWA 303/401
- ▶ 106/319 funding restricted to waters of the Reservation



CWA 106/319– Monitoring

- ▶ Base/Current status
- ▶ Mining parameters
- ▶ Groundwater – levels, direction, chemical
- ▶ Surface Water – flow, physical, chemical, biological, habitat assmt
- ▶ Biological – macro, inverts, health of a water body, fish, wildrice
- ▶ QAPP



CWA 106/319 Watershed

- ▶ Watershed based plans
- ▶ Partnerships
- ▶ Source water protection
- ▶ Outreach
- ▶ Transportation
- ▶ Ancillary



Wetlands / Ordinances

- ▶ Delineate the wetlands w/in Reservation
 - ▶ Inventory – health/function
 - ▶ Hydrology
 - ▶ Biota
 - ▶ Use ordinances
 - ▶ Mining ordinances
- 

TAS – Treatment as a State

Use your 106 to help obtain:

- ▶ CWA 319
 - Helps with Non-Point Source issues impacting Reservation Waters
- ▶ CWA 303/401
 - federally approved WQS and certification
 - Brings you to the table when issues relating to discharge levels
 - Your standards need to be met by dischargers upstream

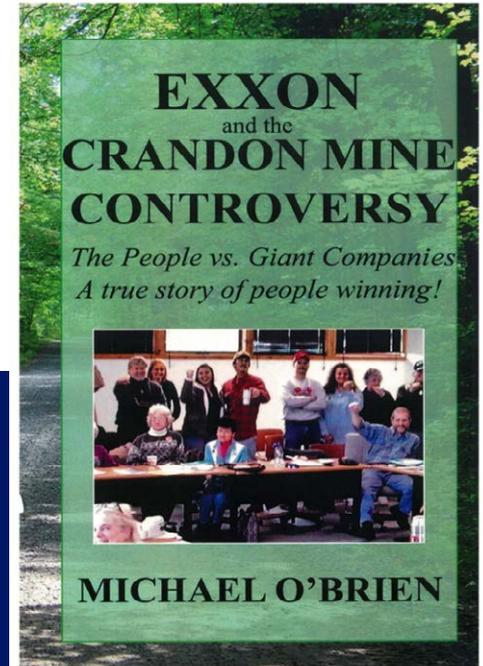
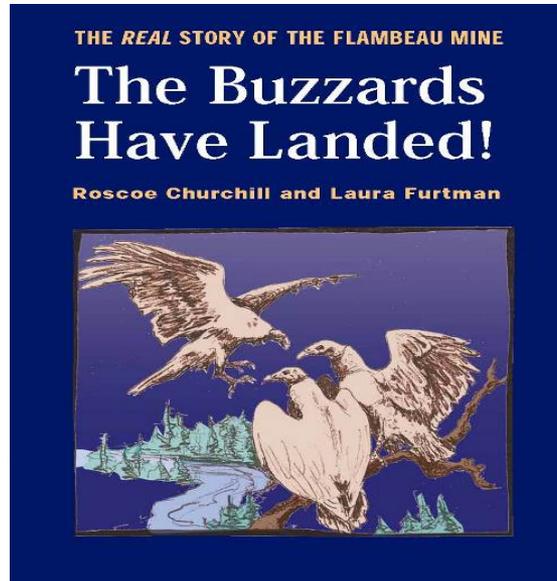
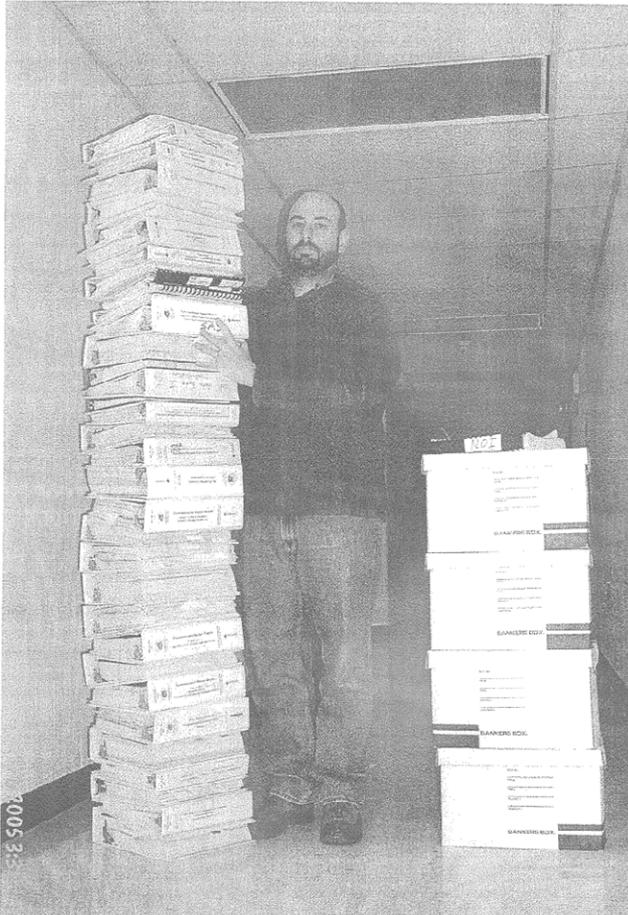
Funding

- ▶ 319 – Management Plan/Assessment Report
 - Base funding: \$30k or \$50k
 - Competitive: Up to \$150k
 - ▶ 106 – Monitoring strategy
 - Priority funding
 - Added funding?
 - ▶ Partnerships
- 

Other

- ▶ Cooperating Agency
 - ▶ Review draft documents
 - ▶ Partnerships
 - ▶ Have strong database showing potential and real impacts
 - ▶ Mining Regs
 - ▶ Pro vs Con
 - ▶ Time consuming
 - ▶ Lots of Reading
- 

Need some light reading?



Crandon Mine



More Information

- ▶ Check in with your Regional Mining Teams
- ▶ EPA Hard Rock Mining Workgroup
- ▶ Regional Websites
- ▶ CWA 106 and 319 Guidance documents

- ▶ Dan Cozza
Region 5, Tribal Program Manager
312-886-7252
cozza.daniel@epa.gov

Questions ??



This is a picture taken at an Australian open cut mine by a friend of mine. The white "thing" is a Toyota Landcruiser Troop Carrier, a rather large 4x4. I like to think of this picture as a big "fuck you" to the arrogant 4x4 tossers out there who think they are the biggest and boddest thing around. Not so tough when squashed under the front of a mining truck are you? h0 h0 h0. The mining truck didnt even pause / shudder / do anything as it ran over the Troopie.



LoadedTruck.com