MINING IN YOUR BACKYARD
Using your CWA 106 and CWA 319

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

- Unlike most other large industry
  - Ore is where it’s at
- 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

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

<table>
<thead>
<tr>
<th>Economic Benefits</th>
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<tbody>
<tr>
<td>Employment</td>
<td>550 construction employees at peak (30% local hires); 402 full-time operations employees for 28 years (70% local hires); 341 jobs in related businesses.</td>
</tr>
<tr>
<td>Local purchases</td>
<td>$43 million total during 3 years of construction; $1.2 million annually during 28 years of operations.</td>
</tr>
<tr>
<td>Tax revenue</td>
<td>$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.</td>
</tr>
</tbody>
</table>

ENVIRONMENTAL PROTECTION

<table>
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<tr>
<th>Environmental Protection</th>
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</thead>
<tbody>
<tr>
<td>Surface water</td>
<td>Sophisticated water treatment plant releasing high-quality treated water to Wisconsin River at Hat Rapids Dam, south of Rhinelander.</td>
</tr>
<tr>
<td>Groundwater</td>
<td>Engineered tailings ponds with top and bottom liner systems, drain systems, monitoring wells and other safeguards.</td>
</tr>
<tr>
<td>Other control</td>
<td>Project design minimizes air emissions, noise, erosion and runoff.</td>
</tr>
<tr>
<td>Permits</td>
<td>More than 40 federal, state and local permits required.</td>
</tr>
</tbody>
</table>
Region 5 – Bad River
Gogebic Range
• 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
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  cozza.daniel@epa.gov
Questions ??

This is a picture taken at an Australian open pit mine by a friend of mine. The white "rug" is a Traylor Underground T600C. A much bigger track. I like to think of this picture as a big "fuck you" to the arrogant idiot hers and those who think they are the biggest and loudest thing around. Not so tough when squashed under the front of a mining truck, and 4000 LB. The mining track side men knew a doubtless as nothing on it can even part the Tongs.