Mining on Tribal Lands



Tribal Lands Environmental Forum August 2016

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Class Outline:

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

Great Spirit, let every rock be my teacher

"All the stones that are around here, each one has a language of its own. Even the earth has a song."-- Wallace Black Elk, LAKOTA

Elder's Meditation

To believe that every tree, plant, and insect can talk takes an open mind. Go pick up a rock and listen to your thoughts. After a while, put that rock down and pick up another rock. Your thoughts will change. These are the voices and wisdom of the Stone People. Each one has different wisdom and they are willing to share their wisdom with you. Many of the Stone People are very old and very wise.

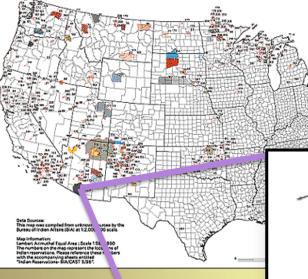
ACTIVITY!



Class Outline:

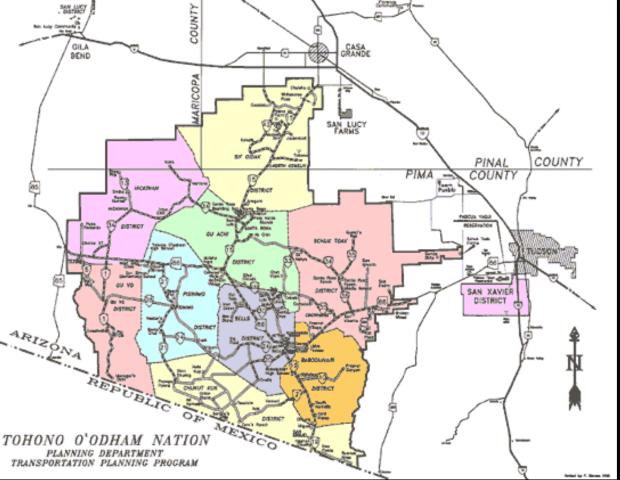
Mining on Tohono O'odham Nation Tribal Lands

- Mining History
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- Life Cycle Of A Mine
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- "Multi-media" Environmental Concerns
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- Federally recognized sovereign Nation
- 11 districts
- > 30,000 members
- 2.8 million acres
- Southern Arizona
- ~75 miles on border

Tohono O'odham Nation





We are the Border, We are Beautiful

Mission Statement

The mission of the Mineral Resources Program is to protect and develop the mineral resources of the Tohono O'odham Nation as directed by the Nation's leadership.

Mining near & on Tohono O'odham



- Copper mines
 - Cyprus Tohono
 Mine
 - ASARCO Mission
 Mine
 - Planned: Rosemont
 - Silverbell & Sierrita
 - ~100 patented
 - ~10 unpatented
- >500 legacy mines

TASK #1: CYPRUS TOHONO CORPORATION (CTC) FREEPORT-MCMORAN INC (FCX) MINE OVERSIGHT

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
CTC- Continue attending meetings and monitoring events such as bat counts, water sampling, post- removal cover inspections, historical site visits, etc.	Manage Mineral Resources.	Continue to attend meetings; Read and analyze information and provide updates to tribal entities. Develop excellent working relationship with mining company.
CTC - Continue involvement with Remedial Investigation/Feasibility Study (RI/FS)for ground water contamination; evaluate mitigation options, and provide for corrective action implementation.	Manage Mineral Resources. Protect Groundwater.	Coordinate and facilitate meetings with Cyprus Tohono, Sif Oidak District, the Nation's Executive and Legislative Branches, Water Resources Department, AG office, USEPA, BLM, and implement mitigation.
CTC - Coordinate with all Tribal and government entities on re-start of mining operations if mining is to resume. Negotiate new terms for the renewed mining lease.	Economic Development. Jobs for Youth and Adults.	Obtain appraisals and coordinate with Realty, AG, WRD, DNR, Sif Oidak District, North Komelik, Nation's Executive and Legislative Branches, USEPA, BLM, BIA, etc. to reach agreement on new terms.

Cyprus Tohono Mine



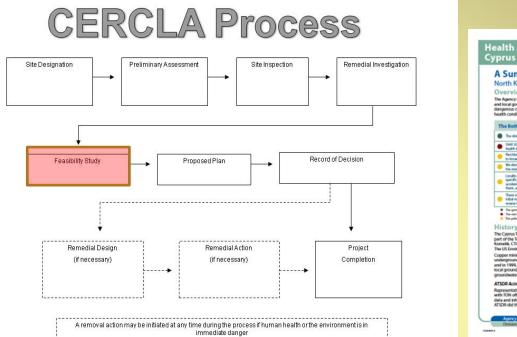
✓ Alternative Superfund Copper Mine Site
 ✓ Impacted land and groundwater





Cyprus Tohono Corporation Mine

2010 2015



prus Tohon		January 2016
A Summary of		
lorth Komelik, To	hono O'odham Nation	
verview		
d local governments to ass ngerous chemicals. This fai	nces and Disease Registry (ATSDR) work sess health risks in communities where ct sheet summarizes findings from ATSI ornolik, near the Cyprus Tohono Mine Si	people may come in contact with DRS investigation of environmental
The Bottom Line		
The chinking water Tohono (Oradham Utility Authority currently provides to I	North Komelik is sale.
Until 2013, North Kornellik de health if they drank it for 1 a	trinking water contained assenic and fluoride at I mar or more.	evels that could have harmed people's
	present in North Konsellk drinking water before levels that could have harmed people's health.	2003; however, there is not enough data
We don't have enough data the mine owner, federal age	to judge the quality of the air for people living n recies, and the Tohono Olotham Nation conduct	ear the site, so ATSOR recommends that more testing.
specific data. Local solit are l	d plants are most likely sale to eat, but to be san likely sale, however, it is good for your health to hat everyone wear gloves while gardening or ha -gardening or harvesting.	limit the amount of soil you eat by
tribul members in the future	ation to know whether a restart of copper minin a ATSOR recommends the mine owner, federal a g plan to forecast the health and environmental	pencies, and the Tohono O'odham Nation
	ied haves to people's leadb. genaue could have people's leadb. set enough information for ATSDE to conclude wheth	er propie's boalds social be barrood.
t of the Tohono O'odham	ion (CTC) mine site is located 32 miles s Nation (TON). The site boundary is 1 mi	le east of the village of North
	e mining lease with the Duneau of India tion Agency (EFR) is investigating grou	
lerground mining and pro I in 1999, the mine transiti al groundwater with urani	site in the 1880's. Open pit mining beg cessing of code and suffice ones bega ioned to care and maintenance mode. I sur, suffate, and perchiorate. EPA is inv . CTC is considering whether to resume	 Open pit mining ended in 1997, Past mining activities contaminated ostigating options for cleaning up
SDR Activities at the Cyp		
h TON officials and comma a and information about h	ited the Nation with EPA in September unity members of North Komelik. Since human contact with chemicals, and por quest of the EPA and the TON.	then, ATSOR has been reviewing
Agency for Toxic Substance	an and Parson Basister	(AL AL



Community Involvement at Cyprus Tohono Mine

Sarah Cafasso US EPA Community Involvement Coordinator



TASK #2: ASARCO MISSION MINE OVERSIGHT

lease, Mine Plan of Operations, and Reclamation Plan for the Northward Pushback and	Economic Development and Jobs for Youth and Adults. Manage Natural Resources.	Coordinate with San Xavier District, Allottees, NRC, ASARCO, BLM, BIA, USEPA, etc., to agree on terms of potential mining. Attend ASARCO Working Group meetings. Insure necessary approvals are obtained.
parties concerning mining proposals ASARCO - Complete reclamation of North San Xavier mine dumps if parties choose	Educate decision makers. Manage Natural Resources. Reclamation of Mine lands.	Read and analyze information and provide updates; Work with ASARCO Working Group, ASARCO, AG, & DNR Director Help implement reclamation requirements in the Mining and Reclamation Plan (MARP) of the Settlement Agreement.

ASARCO Mission Complex

- ✓ ASARCO Mission Mine Complex: situated on 20,000 acres.
- Current pit: 2.5 miles
 long, 1.5 mile wide,
 1,200 feet deep
- Located on tribal land on the south end of San Xavier District (everything above red line)







ASARCO Mission mine

Before reclamation: 2009



After reclamation: 2015

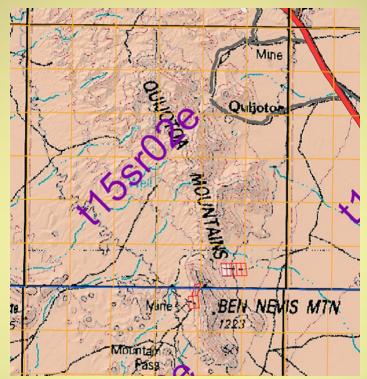
TASK #3: MINE SITE INVENTORY (LEGACY, PATENTED AND UNPATENTED)

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Create & update mining sites	Manage Natural	Continue adding sites and
database	Resources.	information to BIT Access database.
		Visit sites.
Investigate potential purchase of	Assist in acquiring	Set up site visits and work with
Patented Legacy mining Sites;	properties.	Nation's Executive and Legislative
Investigate Legacy sites especially		Branches, AG Office, Realty, USEPA,
those not in BIA Trust Status.		BLM, and BIA; and the affected
		Districts. Visit BLM/AZ State offices.
Work with departments and federal	Economic Development.	Support Development Department
agencies to get site surveys and	Jobs for Youth and	Industrial (aggregate, sand and gravel)
assessments completed	Adults.	Minerals Site Survey; Work with
		Nation's EPO Brownfields program to
		assess sites
Initiate parameters aimed at	Promote health and	Inventory, investigate, and seek
eradicating unsafe abandoned mine	safety both on and off	funding for safely securing mine sites
land (AML) features, especially	mine sites.	such as posting warning signs,
open mine shafts.		fencing or bat grates/cupolas; Locate
		using GIS; need community input.

Mine Site Inventory

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Unpatented Sites



Unpatented mining claimant has the right to explore and develop the minerals on the claim, but the government retains the surface rights. An unpatented claim can be challenged. In 1970, the Nation challenged 425 unpatented claims through the BLM validation tests: only 10 remained!

A Valuable Mineral Deposit

Prudent Man Rule: 1894

"...where minerals have been found and the evidence is of such a character that a person of ordinary prudence would be justified in the further expenditure of his labor and means, with a reasonable prospect of success in developing a valuable mine, the requirements of the statute have been met."

http://www.blm.gov/style/medialib/blm/wo/MINERALS__REALTY__AND_RESOURCE_PROTECTION_/energy.Par.28664.File.dat/MiningClaims.pdf

Patented Sites



After 1955, the Nation was closed to the staking of mining claims, but claims staked from 1872 through 1955 were left in place. ~100 still remain.

LEGACY ABANDONED MINES



Vekol



TASK #4: COMMUNITY OUTREACH ACTIVITIES

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Executive and Legislative Council updates	Educate decision makers.	Create and provide reports and presentations
Community Mining Education and Outreach is needed	Engage local communities and others in an open, honest, and effective discussion concerning mining	Participate in Earth Day April 2016, Youth Edu Mining Days – July 2016; Mining Symposium at the Museum (May 2016), and other tribal events
Post on the DNR intranet web- page - mining info – i.e. links etc.	Educate tribal members.	Get proper approval and permissions to post information on the Nation's Intranet
District and communities meeting presentations and site visits	Manage Natural Resources.	Provide mining presentations and get info especially on "mine scarred land" concerns



ON Mining Off

HIMDAG KI: COMMUNITY ENRICHMENT SERIES



Class Rooms

104

103

7:50 8:00 a.m.	In the Gymnasium	coordinators comn	ients	Mike Henry & Ruben Cu:k B	a'ak		
8:00 – 9:00 a.m. Blessing by – Mike Juan							
Opening	Remarks - Tohono	O'odham Nation Vie	e-Ch	airman Verlon Jose			
Remarks	by – Principal Juli	e McIntyre					
Poster 0	ontest & Stewards	hip Awards presen	ted by	y –Tohono O'odham Nation E	nvironmental Prote	ction Office	
9:05 - 9:25 a.m.	Planting Ceremony	located on the pla	ygroi	und			
9:25 - 10:00 Fur	Run / Walk - Healt	ny O'odham Promot	ion P	rogram			
10:05 – 10:35 a.m.	10:40 - 11:10 a.m.	11:15 - 11:45 a.m.		LUNCH – EXHIBITS OPEN 11:45 – 1:00 p.m.	1:05 – 1:30 p.m.	1:35 – 2:00 p.m.	2:05 - 2:30 p.m.
Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	1.	Range Management, Katherine Espuma One Stop, Cecelia Lopez T.O. Fire. Dreamland Pfeifer	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two- Two & Doug Saunders	Soil Conservation, USDA, Gilbert Two-Two & Doug Saunders
Range Conservation Amos Stevens	Range Conservation Amos Stevens	Range Conservation Amos Stevens		Range Conservation Amos Stevens	Range Conservation Amos Stevens	Range Conservation Amos Stevens	
One stop, Cecelia Lopez	One stop, Cecelia Lopez	One stop, Cecelia Lopez	6	Eva Narcho TERO, Clayton Antone & Tiffany Marks	One stop, Cecelia Lopez	One stop, Cecelia Lopez	One stop, Cecelia Lopez
T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	7.	IHS, Pam Michaelson-Gambrell & Crystal Manuel Water Resources, Justin Manuel	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter	T.O Nation Mining, Laurie Suter
Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	9.	Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer	Fire Safety, Fire Department Dreamland Pfeifer
Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	11.	Environmental Protection Office Fire Management – Guy Acuna	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez	Cyprus Tohono, Cody Martinez

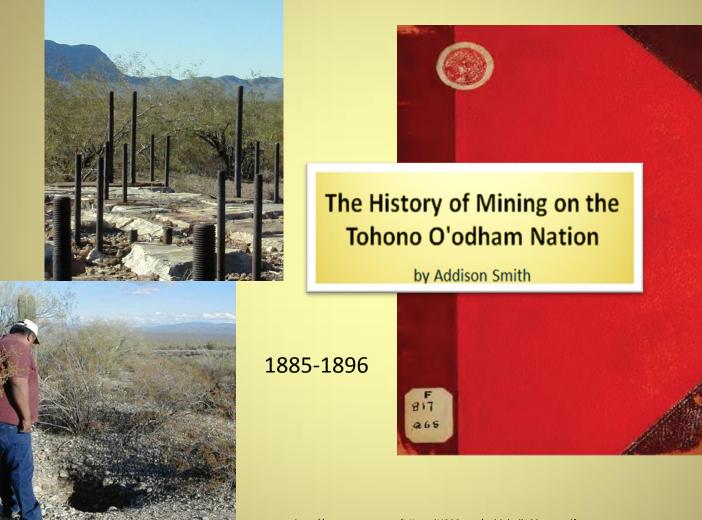
JEWED KA: CIM TASH – Indian Oasis Elementary/Middle School Sells Campus Sells AZ 8963+ April 29, 2016

201 704 705A	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale TONNR	T.O Nation Mining, Laurie Sufer Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plants & Animale TONNR	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale	7. 8. 9. 10. 11.	IH8, Pam Michaelson-Gambrell & Crystal Manuel Water Resources, Justin Manuel Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation Environmental Protection Office	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono,	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer Cyprus Tohono.	T.O Nation Mining, Laurie Suter Fire Safety, Fire Department Dreamland Pfeifer
705A	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale TONNR	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez Plante & Animale	Fire Department Dreamland Pfeifer Cyprus Tohono, Cody Martinez	9. 10. 11.	Traditional Pottery Demonstration, Kathleen Vance Tohono O'odham Nation Environmental Protection Office	Fire Department Dreamland Pfeifer	Fire Department Dreamland Pfeifer	Fire Department Dreamland Pfeifer
_	Cody Martinez Plante & Animale TONNR	Cody Martinez Plante & Animale	Cody Martinez	11.	Environmental Protection Office	Cyprus Tohono.	Common Tachanan	
	TONNR				Fire Management – Guy Acuna	Cody Martinez	Cody Martinez	Cyprus Tohono, Cody Martinez
705B	Holly Barton	Holly Barton	TONNR Holly Barton	12 13. 14.	Natural Resources, Holly Barton Desert Museum, Alyssa Killian Desert Museum Live Animale, Jeaus Garcia	Plants & Animals TONNR Holly Barton	Plants & Animals TONNR Holly Barton	Plants & Animals TONNR Holly Barton
706	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	15.	U of A, Marti Lindsey NOAO, Rob Sparks	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya	Cultural Museum, Ana Montoya
900	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	17. 18.	TOCC, David Stone ITCA, Africa Dorame-Avalos & Shaina White	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan	Tohono O'odham Youth Services Cissimarie Juan
<mark>901</mark>	IHS Diabetee Program Ruby Floree	IHS Diabetee Program Ruby Flores	IHS Diabetes Program Ruby Flores	19. 20.	Tohono O'odham Cultural Museum, Ana Montoya Tohono O'odham Youth Services,	IHS Diabetes Program Ruby Flores	IHS Diabetes Program Ruby Flores	IHS Diabetee Program Ruby Floree
902	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	21.	Cissimarie Juan Tohono O'odham Cultural Affairs, Jefford Francisco	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley	EPO Recycle Program LaShawnia Tso & Morgan Ashley
Library	U of A, Marti Lindsey	U of A, Marti Lindsey	U of A, Marti Lindsey	22. 23. 24.	Tribal Warm Line Program, Angel Cadue U.S. Air Force, Susan Gladstein TOCC Traditional Foods CATED IN THE GYMNASIUM	U of A, Marti Lindsey	U of A, Marti Lindsey	U of A, Marti Lindsey





"Quijotoa: Boom and Bust in the Arizona Desert"



http://www.azgs.az.gov/Mineral%20Scans/gold_bull180_ocr.pdf https://archive.org/stream/quijotoaminingdi00step#page/n7/mode/2up http://www.statemuseum.arizona.edu/exhibits/goldie/bio_2.shtml http://www.arizonahistoricalsociety.org/wp-content/upLoads/library_Quijotoa-Mine.pdf

DESERT

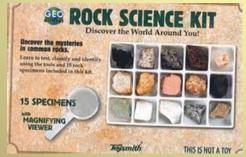
SONORA

Mineral – naturally occurring homogeneous solid with definite chemical composition and an ordered atomic arrangement.

Rocks & Minerals Identification

by Arizona Sonoran Desert Museum

Rock – a naturally formed, stable aggregation of minerals







Calcite is a mineral Limestone is a rock containing calcite

drill + blast + load + haul





Mining Equipment Simulators

by Freeport-McMoRan Inc.



LOWELL INSTITUTE FOR MINERAL RESOURCES

Mining: It's in Everything!

by Pamela A.K. Wilkinson, Lowell Institute for Mineral Resources So you think you can live without mines?

Hands-on activities will show you the variety of rocks and minerals that go into the things we use every day and teach you by mining BBs out from sand.

UA SRP Participates in Tohono O'odham Mining Education Days



Copper Mining and Processing

by UofA Superfund Research Group

Denise Moreno Ramirez, Pam Wilkinson, Karletta Chief, Lydia Jennings, Sarah Wilkinson, Juliana Gil-Loiaza, Laurie Suter, John Hottenstein, Lydia Jennings

New Tribal Mining Module on Copper Available

The UA SRP Community Engagement Core has released the first module of the "Mining and Environmental Educational Modules for Tribal Colleges" collection.

http://www.superfund.pharmacy.arizona.edu/highlights/new-tribal-mining-module-copper-available





ACTIVITY!

Introductions:

- ✓ Your name
- ✓ Affiliation
- ✓ Brief reason for your interest in mining
- ✓ One personal fun fact

Please sign in on the attendees sheet! Please fill out session evaluation!

Class Outline:

• Mining on Tohono O'odham Tribal Lands

Mining History

- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

2nd Oldest Industry!

"If it isn't grown, it must be mined"

- Mining is a part of human advancement
- Oldest Mine: 20,000-40,000 years ago Red Ochre
 mined in Africa for use in rock paintings
- Native Americans mined copper 5000-1200 BC
 for knives, arrows, spear heads, and axes
- Copper was mined 5000 years ago on Cyprus Island
 - Ancient Greek & Roman mined copper to make armor
 - released trace metals discovered in Greenland ice cores

Federal Mining Laws

• General Mining Law of 1872

- Valuable mineral deposits in lands belonging to the United States shall be free and open to exploration and purchase by US citizens
- TON = 17,000 claims 1872-1955

Surface Resources Act of 1955

- All Indian reservations are federally closed to location of mining claims ("WITHDRAWN"). Requests must be made directly to Tribes.
- Holders of patented mining claims and sites located within lands later withdrawn from mineral entry (tribal), must prove their right to continue to occupy and use the land for mining purposes. (*Prudent Man Rule*)
- 1960's TON challenged all claims

• Federal Land Policy and Management Act of 1976

- "authorizing and permitting of mineral exploration, mining, and reclamation actions governed by the Bureau of Land Management (BLM)
- BLM supervises exploration, development, and production operations of resources on Indian lands.

Many Agencies Regulate Mining

- Section 402 NPDES Water Discharge Permit
- Air Quality Permit
- Section 404 Dredge and Fill Permit
- Section 106 Historical and Cultural Resources Protection
- Marine Mammal Protection Act
- Threatened and Endangered Species Act
- Essential Fish Habitat
- Fish and Wildlife Coordination Act
- Bald Eagle Protection Act
- Migratory Bird Protection



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Mineral Resources of the Lithosphere, South Africa

"Lithosphere: #1 lesson"

https://www.youtube.com/watch?v=e0EyZS5rfOU

(skip to time 15.19)

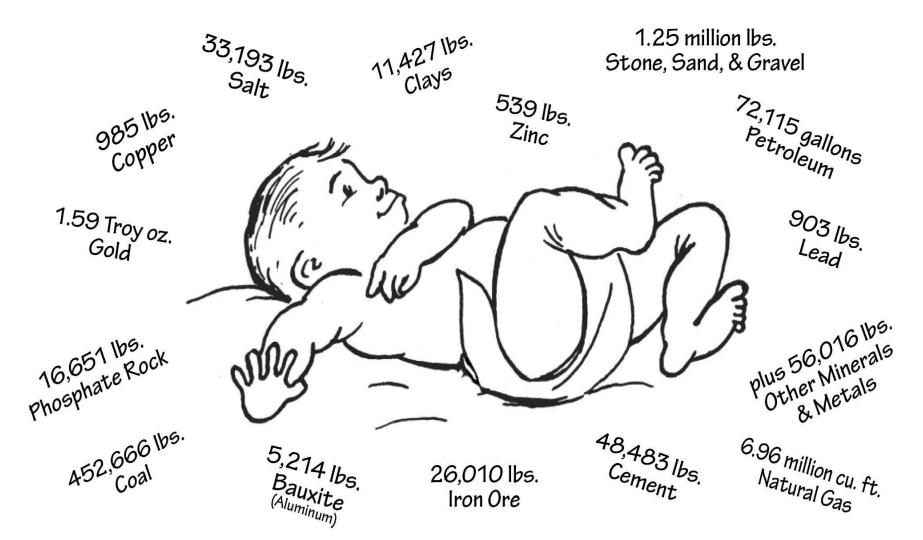
Mines are Everywhere

Mines are in every state

500,000 abandoned mines

14,000 active mines

Every American Born Will Need...



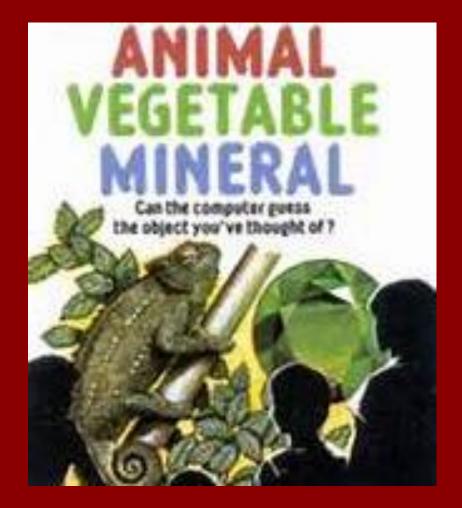
3.11 million pounds of minerals, metals, and fuels in their lifetime

©2015 Minerals Education Coalition

The Society for Mining, Metallurgy & Exploration Foundation

Learn more at www.MineralsEducationCoalition.org





70% of all metal is used only once and then thrown away



Reduce Reuse Recycle

http://www.brighthub.com/environment/green-living/articles/66929.aspx



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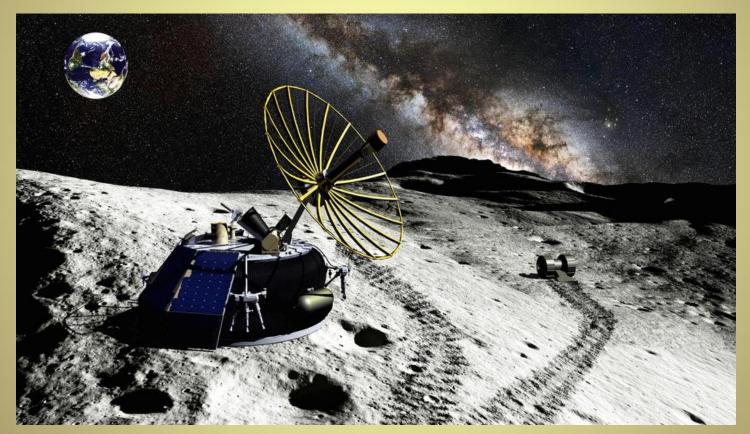
\$8 trillion alternative energy boom is a win for copper



Copper remains an irreplaceable component in our ever-expanding energy needs.

Mining News Digest <miningnewsdigest@e.mining.com>

Moon Express believes there is a viable business flying commercial flights to the Earth's only natural satellite and potentially mining its resources.



http://www.mining.com/wp-content/uploads/2016/06/us-government-expected-to-green-light-first-private-moon-mission.jpg

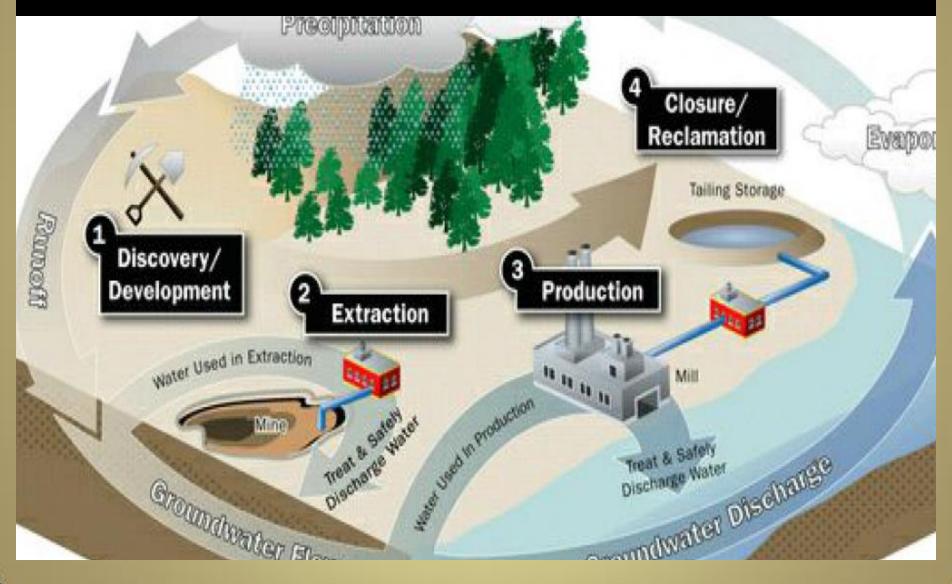
Class Outline:

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts

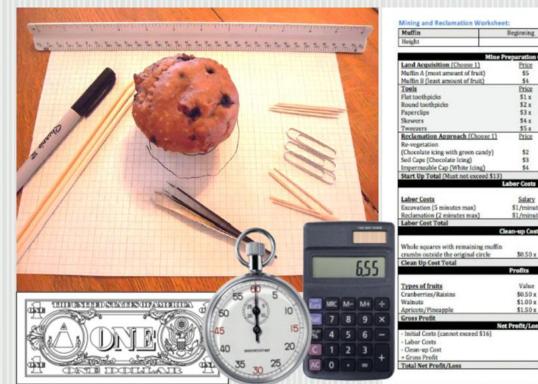
• Life Cycle of a Mine

- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion

Stages of Mining



ACTIVITY!



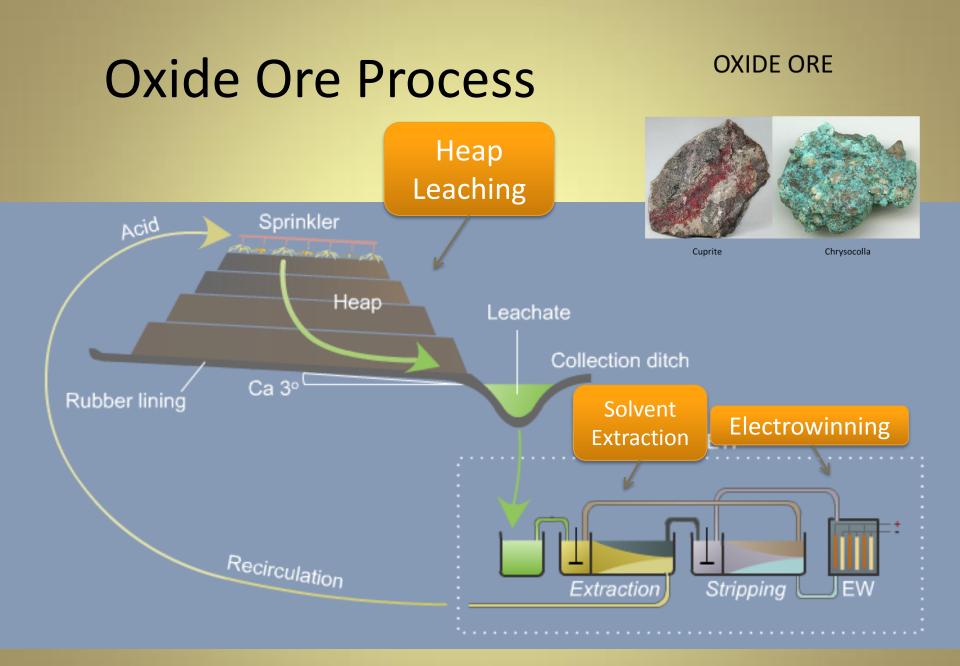
Mine Pr	reparation Co	sts	
Land Acquisition (Choose 1)	Price		My Expenses
Muffin A (most amount of fruit)	\$5		5
Muffin 8 (least amount of fruit)	\$4		5
Tools	Price	Number used	My Expenses:
Flat toothpicks	\$1 x		5
Round toothpicks	\$2 x		5
Paperclips	\$3 x	5	5
Skewers	\$4 x	¢	5
Tweezers	\$5 x		5
Reclamation Approach (Choose 1)	Price		My Expenses
Re-vegetation			
(Chocolate icing with green candy)	\$2		5
Soil Caps (Chocolate Icing)	\$3		5
Impermeable Cap (White Icing)	\$4		5
Start Up Total [Must not exceed \$13]			5
4	abor Costs		
	-	Number of	CONTRACTOR OF THE
Labor Costa	Salary	minutes	My Expenses
Excavation (5 minutes max)	\$1/minute		5
Reclamation (2 minutes max) Labor Cost Total	\$1/minute		5
	an-up Cost		3
	tan-up cost	Number of	
Whole squares with remaining muffin			My Expenses
crumbs outside the original circle	\$0.50 x	squares	S S
Clean Up Cost Total	30.30 X		5
arean op cost rotat	Profits		
		Number	
Types of fruits	Value	excavated	Money Earned
Cranberries/Raisins	\$0.50 x		S
Walnuts	\$1.00 x		S
Apricots/Pineapple	\$1.50 x		5
Gross Profit			5
	Profit/Loss		
Initial Costs (cannot exceed \$16)			5
Labor Costs			5
Clean-up Cost			5
- Gross Profit			5
Total Net Profit/Loss			

End

Life Cycle of Mine

- Prospecting: finding it
- Exploration: defining it
- **Development**: planning it
- Exploitation: mining it
- Closure/reclamation: cleaning it up





SULFIDE ORE



Chalcopyrite

Chalcocite

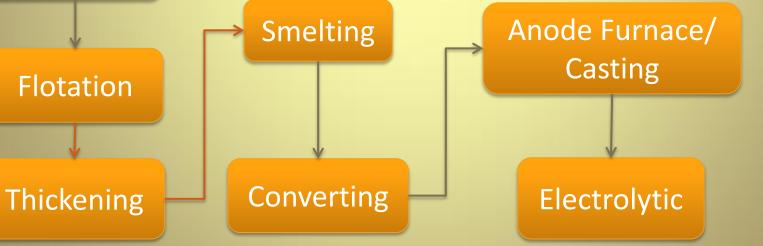












RECLAMATION AND CLOSURE GOALS:

Physical stability

Prevent potential failures, collapses, erosion

Chemical stability

Prevent run off, poor quality leachate, air and water quality issues

Biological stability

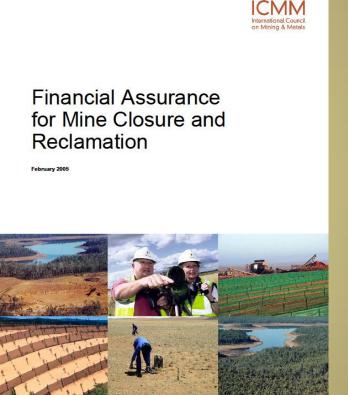
Vegetated cover

Land use

Safe and productive land

Financial Assurance for Closure and Reclamation

"An important component of mine planning is consideration of how closure and reclamation will be funded...."



http://www.icmm.com/document/282

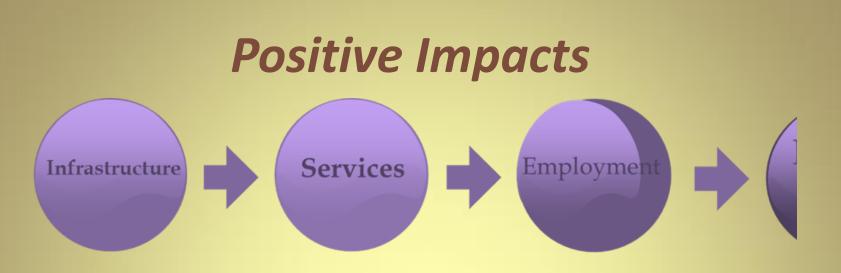
Class Outline:

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- Basic Mining Concepts
- Life Cycle Of A Mine

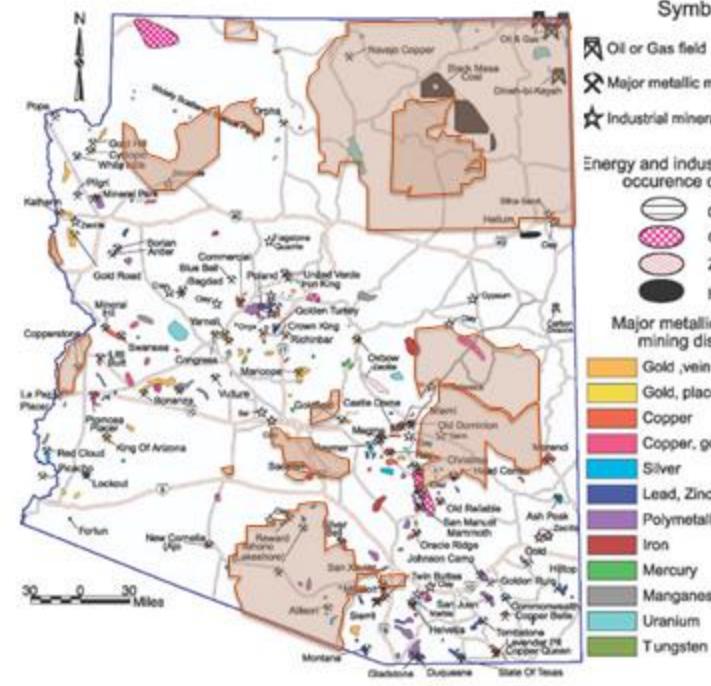
Potential Positive Tribal Gains

- "Multi-media" Environmental Concerns
- Sovereign Involvement
- Discussion





- Mining contributed \$4.8 billion in 2012 to Arizona
- Worldwide >13 million employed by small mines
- Local Economic Development
 - ✓ Indirectly: 1 mining job = 11 other jobs
- Education, schools, training, hospitals, roads, electricity, clean drinking water, wastewater treatment...
- Access to Mineral Resources



Symbols Oil or Gas field Major metallic mineral mine Y Industrial mineral production site Energy and industrial mineral occurence districts Cosl -----Gypsum Zeolites Helium Major metallic mineral mining districts Gold ,vein or disseminated Gold, placer Copper Copper, gold Säver Lead, Zinc, Silver Polymetallic Mercury Manganese Uranium

TASK #5: MINING WORKFORCE DEVELOPMENT

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
		Invest time in developing mining
Help develop a tribal program to	Economic Development.	education and training programs that
improve the skills of a potential	Jobs for Youth and	improve the skills and productivity of
mining workforce	Adults.	the workforce; talk to UofA, TOCC,
		TERO, MSHA, BIA & BLM

AZ Jobs (March 2015)

910 Mining jobs :	401 Casino jobs:
	\$20,000+ (241)
\$40,000+ (370)	\$40,000+ (102)
\$60,000+ (252)	\$60,000+ (30)
\$80,000+ (162)	\$80,000+ (17)
\$100,000+ (85)	\$100,000+ (11)
\$120,000+ (41)	

Mining Royalties



DIRECTIONS IN DEVELOPMENT Energy and Mining

Mining Royalties

A Global Study of Their Impact on Investors, Government, and Civil Society

James Otto, Craig Andrews, Fred Cawood, Michael Doggett, Pietro Guj, Frank Stermole, John Stermole, and John Tilton

COLO INTER INCIDE DATES

http://siteresources.worldbank.org/INTOGMC/Resources/336099-1156955107170/miningroyaltiespublication.pdf

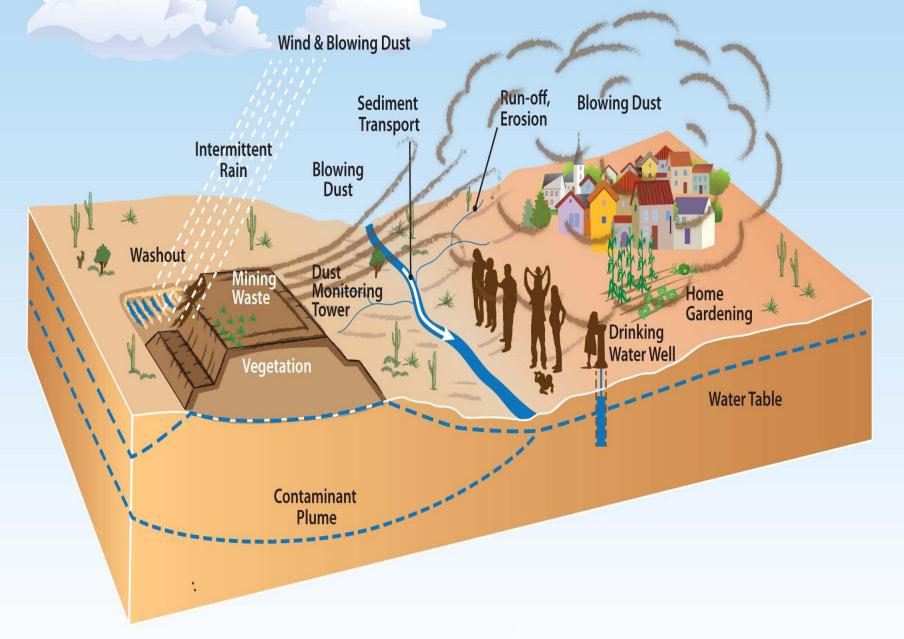
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- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains

"Multi-media" Environmental Concerns

- Sovereign Involvement
- Discussion

Environmental Concerns



Air quality is an issue at every mine

• Monitor:

- ✓ Collect baseline air quality and climatological data
- Define potential respiratory health impacts for both mine workers and nearby communities

• Control:

- ✓ Direct using water, binders or wetting agent applications
- ✓ Revegetation of disturbed areas concurrent with operations



Land Impacts

Direct:

- Physical alteration
- loss of habitat and vegetation
- Soil contamination

Indirect:

- Wildlife
- Subsistence users

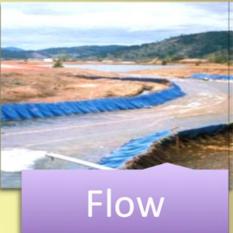




Water Impacts







- Control!
- Minimize contact between wastes and water
- Maximize water reuse
- Prevention!

Solid & Hazardous Waste









Class Outline:

- Mining on Tohono O'odham Tribal Lands
- Mining History
- Basic Mining Concepts
- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns

Sovereign Involvement

Discussion

How can tribes be involved?

- ✓ Tribal Standards, Policies, Regulations
- ✓ Partnerships
- ✓ Site Visits
- *Early & frequent contact with project components, lead agency & advocates*
- ✓ Government to Government Consultation
- Participate in Public Hearings & Meetings
- ✓ Traditional Knowledge Surveys
- ✓ Training / Education

TASK #6: DOCUMENT NATION'S MINING GOALS

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Mining Environmental Management Plan	Manage Natural Resources.	Draft protocol for potential of prospecting, exploration, and mining
TON Mining Permit Guide	Provide guide to Parties interested in mining minerals on TO Nation's lands.	Arizona has a mine permit guide that can be used as guide to Draft a TON mining guide
Determining Nation's reclamation goals for post- mining land and undertake measures to reduce the footprint of sites	Reduce the mining footprint.	Draft procedures for reclamation of post-mining land. Natural Resources Damage Protection Ordinance?

ROSEMONT

Tohono O'odham Nation Office of the Chairman & Vice Chairwoman COMPASSION FAITH TRADITION RESPEC Wavalene M. Romero Ned Norris, Jr. Chairman Vice Chairwoman

The Honorable Tom Vilsack Secretary U.S. Department of Agriculture 1400 Independence Ave., S.W. Washington, D.C. 20250 agsec@usda.gov

Via Email and U.S. Mail

August 20, 2013

RE: Rosemont Mine Project

Dear Secretary Vilsack:

We write to you to respectfully request that the expediting of the Final Environmental Impact Statement and associated Record of Decision for the Rosemont Mine Project ("Project") be stopped. The Tohono O'odham Nation recently learned that the Forest Service plans to issue a Record of Decision in this matter at the end of September. This deadline certainly came as a shock to the Nation, as no such date had been previously mentioned. The announcement came when the Forest Service distributed to the Cooperating Agencies the Draft Final Environmental Impact Statement. This arbitrary deadline has apparently been proposed to avoid new regulations that would otherwise apply to this Project, replacing the current administrative appeal process with an objection process.

First, with respect to the new deadline, the Nation takes issue with the late notice of this arbitrary deadline. The new regulations became effective for non-Healthy Forests Restoration Act projects on March 27, 2013. 36 C.F.R. § 218.16(b). The Forest Service knew or should have known then that the new regulations would apply to proposals such as the Project if no decision was rendered prior to September 27, 2013. Yet, the Forest Service did not inform tribes or Cooperating Agencies that they were attempting to shoehora the Project in under the old regulations. Instead, Cooperating Agencies were informed on July 1, 2013, of this impending deadline. This sudden urgency is simply unwarranted. The regulations provide that the Forest Service merely must notify interested and affected parties that the project will be subject to the new regulations if a decision will be issued after September 27, 2013. Processing this Project under the new regulations rather than rushing a decision under the old regulations will ensure full

O Box 837, Sells, AZ 85634. (520)383-2028 . Fax (520)383-5379

http://www.rosemontminetruth.com/



"Ours is the Land"

Shown with permission from Frances Causey

Google earth

Imagery Date: 1/3/2015 31°50'58.96" N 110°50'38.08" W elev 3654 ft eye alt 17.83 mi

ADDATA MEDIA PTESENTS **OURS IS THE LAND**

Note Section Penetry and they be the Penerry Sector S

The impact of mining on Tohono O'odham sacred burial grounds Torone New Area, Joint Japan Taxie Drive of New Taxiet, be New Area New John Star Rear Rear Securities and Area

"Ours Is The Land"

https://www.youtube.com/watch?v=I45jawKk4G0

(trailer = 1:51 mins,

Sierrita Mine

✓ Historical Sites visit✓ Cultural Landscape

Traditional Ecological Knowledge (TEK) Cultural Landscape Study



MONTANE

RESOURCES

RIPARIAN

ESOURCE

A Traditional Environmental Knowledge-based Scenario

AIR AND DUST

INHALATION

DIRECT SOIL

"...efforts must start from the perspective of indigenous knowledge of local ecology. Science magazine (10 June 2016 vol. 352 issue 6291)

TASK #7: ATTEND MINING SYMPOSIUMS, EDUCATIONAL, TRAINING AND CERTIFICATION EVENTS

FOCUS AREA	APPLICABLE AREA	IMPLEMENTATION STRATEGY
Attend meetings on mining issues: SME, Tribal Lands Forum, NTMW	Protect tribal Natural Resources by being informed. Educate Public.	Travel costs currently paid from personal funds; some scholarship reimbursements are provided by sponsoring agencies.
MSHA	Maintain certifications.	Free training available through FCX at CTC.
HAZWOPER	Maintain certifications.	Paid from personal funds; seek free training.

	Certificate of Training
	Opprove and a second seco
Vicitation and imment	adute to concers requires <u>outputs</u> <u>Expires July 31, 2014</u> and 110, <u>Public Law 91, 121</u> In penalty Law 91, 2014
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Instructor: Corey Access Training Date: January 28, 2015 Expiration Date: January 28, 2016 Expiration Date: J6695214882	A. Surface B. Coal Construction A. Date Training Rescuence
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PimaMaps Classes	False courses Authority and Au
Pima County ITD Geographic Information Systems is presenting classes for P	amended by P. L. 95-164. Mine Name, ID. & Location of Training CYPCias
PimaMaps Classes Pima County ITD Geographic Information Systems is presenting classes for P web mapping system. These classes are free and open to both the public an is two hours long. Registration is not required and seating is limited to appr	CYPNUS Location of Training (if institution give name & address)
Seven sessions are scheduled for July through October:	ASA Graude and in institution give name & address) ate a Graude AZ 8522
Thursday, July 30th, 9:00 to 11:00 AM	lin lie en
Tuesday, August 4th, 2:00 to 4:00 PM Thursday, August 27th, 9:00 to 11:00 AM	Form 6000-23, Jan. 99 (revised)
 Tuesday, September 1st, 2:00 to 4:00 PM Tuesday, September 22nd, 2:00 to 4:00 PM 	Copy 1 - Employer's Personnel Record
 Tuesday, October 20th, 2:00 to 4:00 PM Thursday, October 22nd, 9:00 to 11:00AM 	-ourriel Record
All classes will be held in basement conference room C of the Public Works Bu	ilding, 201 N. Stone Ave. (NW corner
of Stone & Alameda). These presentation-style classes review the features of th http://gis.pima.gov/pimamaps/ @.	he PimaMaps Main Map available at

Professional Mineral Property Evaluation Course



Society for Mining, Metallurgy & Exploration .

uperfund Research Pro

A-DRIVEN WORLD

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Minerals Valuation II:

Lessons Learned and

THE FUTURE FOR MINING IN A DATA-DRIVEN WORLD 2016 ANNUAL CONFERENCE & EXPO Environmental: Sustainable **Outcomes of Effective** Remediation/Reclamation - Mint Stakeholder Engagement Homewand Renediation Reclamation

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TRIBAL ENVIRONMENTAL LAW SEMINAR



SHORT CRESSMAN & BURGESS PLLC, Tribal Practice Group "Exercising Tribal Sovereignty to Protect and Preserve Tribal Natural Resources, Foods and Lifeways."

"Superfund Essentials" Training

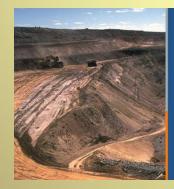


ITEP Superfund Training and Site Visit: The Bunker Hill Superfund Site

NATIONAL TRIBAL MINING WORKGROUP (NTMW)



Network with other tribes



NEPA & Mining 101 Webinar

Three Part Series: May 12, 24, and June 8 1:00-3:00 EDT



SAVE THE DATE



Tribal Engagement and Environmental Responsibility

NOVEMBER 2-4, 2016 IN PHOENIX-TEMPE **AT ARIZONA STATE UNIVERSITY**

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Registration Opens June of 2016 Visit www.ntmw.org for More Information

Regulatory Permitti Traditional Ecological Knowledge Reclamation Air Quality Impacts A Protecting Water Resour

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- Life Cycle Of A Mine
- Potential Positive Tribal Gains
- "Multi-media" Environmental Concerns
- Sovereign Involvement



ACTIVITY!

 Why is mining controversial? What are some deciding factors for or against mining?





For more information contact:

Laurie Suter

Mineral Resources Administrator, DNR Mining Office Telephone No. 520-383-3031