

# Rosemont Copper Project EIS

## Cooperating Agency Coordination Meeting 09/17/2009

### Agenda

**Location:** Federal Building, 300 West Congress, Tucson, Arizona, Room 4B  
**Facilitator:** Teresa Ann Ciapusci, Cooperating Agency Liaison

#### AGENDA

09:30 – 09.45	<b>Welcome and Introductions</b>	<b>Laford</b>
09:45 – 11:00*	<b>Effects Analysis Process</b> <ul style="list-style-type: none"><li>◆ Affected Environment</li><li>◆ Environmental Effects</li><li>◆ Cumulative Effects</li></ul>	<b>Ciapusci</b>
11:00 – 11:30	<b>Open Discussion</b>	<b>Ciapusci</b>

#### INVITED COOPERATING AGENCIES

**Tribes:** Tohono O'odham Nation  
**Federal:** Air Force, Army COE, BLM, Smithsonian Whipple Observatory  
**State of Arizona:** ADEQ, AMMR, ADWR, AZGF, AZGS, AZSLD, AZSP  
**Local:** Pima County, City of Tucson, Town of Sahuarita

#### INVITED GUESTS

**Consultants:** Cheniae & Associates: Gordon Cheniae

\* Includes breaks as needed

# Rosemont Copper Project EIS

## Cooperating Agency Coordination Meeting 09/17/2009

### Meeting Notes

<b>Welcoming Remarks</b>	<b>Teresa Ann Ciapuci</b>
<b>Discussion:</b>	
⇒ Introductions	
⇒ Update on progress of interdisciplinary team work	
<b>Effects Analysis Process</b>	<b>Teresa Ann Ciapuci</b>
<b>Discussion:</b>	
⇒ PowerPoint Presentation: Effects Analysis Process	
⇒ Provided overview training on environmental effects (physical, biological, social, and economic) and analysis process for direct, indirect, and cumulative effects in the Affected Environment and Environmental Effects sections of DEIS Chapter 3	
<b>Action items:</b>	
⇒ Provided cooperating agencies with draft text from upcoming correspondence requesting cooperating agencies provide data in the format of Catalog of Activities spreadsheet. .	
⇒ Negotiated change in due date from October 2, 2009 to October 9, 2009 for Catalog of Activities submissions from cooperating agencies	
<b>Open Discussion</b>	<b>Teresa Ann Ciapuci</b>
⇒ Cooperating agencies expressed desire for more direct interchange with Forest Service interdisciplinary team members. Interdisciplinary Team Leader, Bev Everson was present and acknowledged this desire. Bev agreed to remind the interdisciplinary team members that they had a list detailing cooperating agency expertise and to remind them to pursue informal contacts with cooperating agency counterparts as needed throughout the environmental study.	

**Rosemont Copper Project  
Cooperating Agency Meeting**

~~August 20, 2009~~ September 17, 2009

Attendance Record

Cooperating Agencies	Participant(s) <b>(Please Print Legibly)</b>
Tohono O'odham Nation	Addison Smith    Kaven Howe Linda Berg Peter Steen
US Department of the Air Force 162d Fighter Airwing	MARK HARTING, LTC AIRFIELD MANAGER
US Department of Defense Army Corps of Engineers	unavailable - advance notice
US Department of the Interior Bureau of Land Management	DAN MOORE
Smithsonian Institution Fred Lawrence Whipple Observatory	

**Rosemont Copper Project  
Cooperating Agency Meeting**

~~August 20, 2009~~ September 17, 2009

<b>Cooperating Agencies</b>	<b>Participant(s)</b> <b>(Please Print Legibly)</b>
AZ Department of Environmental Quality	UNAVAILABLE - CALLED IN ADVANCE
AZ Department of Mines and Mineral Resources	MADAN M. SINGH
AZ Department of Transportation	
AZ Department of Water Resources	Laura Grignano
AZ Game and Fish Department	John Winder

**Rosemont Copper Project  
Cooperating Agency Meeting**

~~August 20, 2009~~ September 17, 2009

<b>Cooperating Agencies</b>	<b>Participant(s)</b> <b>(Please Print Legibly)</b>
AZ Geological Survey	Lee Allison
AZ State Land Department	David Jacobs
AZ State Mine Inspector	GARRETT FLEMING
AZ State Parks	Robert Casavant Jeanne M. Roberts Bob Sejkora
City of Tucson	

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<b>Cooperating Agencies</b>	<b>Participant(s)</b> <b>(Please Print Legibly)</b>
Pima County	Lay Neff      Linda Mayo Julie Fonseca
Town of Sahuarita	Orlanthia Henderson Joe MARQUES

Attendance Record

<b>Guests</b> <b>(Please Print Legibly)</b>	<b>Affiliation</b>
G. L. Cheniae	Cheniae & Associates (Contractor for Rosemont Copper Company)
Bob Sejkora	<del>AZ State Parks</del>

**Rosemont Copper Project  
Cooperating Agency Meeting  
August 20, 2009**

**Attendance Record**

<b>Cooperating Agencies</b>	<b>Participant(s)</b>
Tohono O'odham Nation	Laura Bergan Karen Howe Addison Smith Peter Steere
Air Force, 162d Fighter Airwing	Mark Harting, LTC
Army Corps of Engineers	
USDI BLM	Dan Moore
Smithsonian Institution	
AZ Dept of Environmental Quality	Unavailable – advance notice
AZ Dept of Mines and Mineral Resources	Madan M. Singh
AZ Department of Transportation	
AZ Dept of Water Resources	Laura Grignano
AZ Game and Fish Department	John Windes
AZ Geological Survey	Lee Allison
AZ State Land Department	David Jacobs
AZ State Mine Inspector	Garrett Fleming
AZ State Parks	Robert Casavant Joanne M. Roberts Bob Sejorka

**Rosemont Copper Project  
Cooperating Agency Meeting  
August 20, 2009**

Cooperating Agencies	Participant(s)
City of Tucson	
Pima County	Julia Fonseca Loy Neff Linda Mayro
Town of Sahuarita	Orlanthia Henderson Joe Marques

Guests	Affiliation
G.L. Cheniae	Cheniae & Associates (Contractor for Rosemont Copper Company)

# EFFECTS ANALYSIS PROCESS

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## Administrative Record

- Demonstrate consideration and analysis of environmental effects (physical, biological, social, and economic) by documenting:
  - Baseline affected environment
  - Potential Effects
    - Direct
    - Indirect
    - Cumulative
  - Cause and effect relationships
  - Best available science

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## Affected Environment [40 CFR 1502.15]

- Succinctly describe environment of area(s) affected by proposed action and alternatives
- Data and analysis commensurate with impact's importance
  - Summarize, consolidate, or reference less important impacts
- Concentrate on important issues

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## Environmental Consequences [40 CFR 1502.16]

- Scientific and analytic basis for comparisons
- Include environmental effects of proposed action and alternatives, including no action
- Disclose adverse environmental effects which cannot be avoided

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## Environmental Consequences (continued)

- Discuss:
  - Relationship between short-term uses of man's environment and maintenance and enhancement of long-term productivity
  - Irreversible commitments
  - Irretrievable commitments
  - Direct, indirect, and cumulative effects and their significance
  - Possible conflicts between the proposed action and objectives of tribal, federal, regional, state, and local plans, policies, and controls

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## Environmental Consequences (continued)

- Discuss:
  - Energy requirements and conservation potential
  - Natural or depletable resource requirements and conservation potential
  - Urban quality, historic and cultural, design of the built environment including reuse and conservation potential
  - Means to mitigate adverse impacts

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## Environmental Consequences [40 CFR 1508.8]

- Synonymous terms: Effect and Impact
- Effects may be beneficial or detrimental
- Direct effects
  - Caused by the action
  - Occur at same place and time as the action
- Indirect effects
  - Caused by the action
  - Later in time or farther removed in distance, but still reasonably foreseeable
  - Include growth changes
  - Include induced changes

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## Direct and Indirect Effects

- Direct Effects
  - Spatially and temporally immediate short-term and long-term impacts
- Indirect Effects
  - Short-term and long-term impacts removed in space and time
  - Reasonably foreseeable
  - Not remote or speculative
- Cumulative Effects
  - Past, present, and reasonably foreseeable future actions
  - Not speculative

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## Reasonably Foreseeable

- Federal or non-Federal activities not yet undertaken for which there are existing decisions, funding, or identified proposals. [36 CFR 220.3]
- A proposal exists when all of the following criteria are met: [36 CFR 220.4(a)]
  - Agency actively preparing to make a decision subject to agency control and responsibility that would effect the environment
  - Decision not statutorily exempt from NEPA

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## Key Concepts [CEQ: *Considering Cumulative Effects* (1997), page 8]

- Aggregate of past, present, and reasonably foreseeable future actions
- Total of relevant actions on a given resource, ecosystem, and human community, no matter who causes
- Analyze specific to resource, ecosystem, and human community affected
- Focus on truly meaningful effects
- Accumulation of similar effects; synergistic interaction of different effects
- Effects may last for beyond life of causal action
- Analyze using quantitative data and/or qualitative analysis and assumptions

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## Bounding Effects

- Establish resource-specific boundaries
  - Temporal boundaries
  - Spatial boundaries
- Expand/extend analysis area and period until effects quantitatively or qualitatively irrelevant or stable
- Effects rarely align with political or administrative boundaries
- Bound resource, ecosystem, and human community in terms of capacity to accommodate additional effects based on its own time and space parameters
- Boundaries may overlap in time and space with other actions

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## Responsible Official's Direction

- Document analysis of direct, indirect, and cumulative impacts relative to the physical, biological, social, and economic environments – regardless of land ownership
- Commensurate with the importance of impact, succinctly describe affected environment
- Provide enough information to support comparisons
  - Site-specific
  - Cause-effect relationships
  - Appropriate measures of change
- Determine appropriate level of analysis for each resource
- Document assumptions including design features and mitigation

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## Additional Considerations

- Unavoidable cannot be mitigated
- Irreversible cannot be restored
- Irretrievable can eventually be restored, but resource value is irretrievably lost until restored
  
- Actions of alternatives are not effects
- Listing comparative values is not interpreting
- No action alternative has effects

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## Cooperating Agency Assistance

- Identify direct, indirect, and cumulative effects 
- Identify proposed action effects 
- Provide regulatory thresholds
- Suggest mitigation
- Public involvement 

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## CATALOG OF EVENTS



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### Forest Service Practice

The Forest Service generally considers past and present actions to be inherent in the description of the Affected Environment, so does not consider creating exhaustive lists of past actions to be particularly useful. Focus the Event Catalog on present and reasonably foreseeable plans and activities that could contribute to cumulative effects in the analysis area.

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## Event Catalog Considerations

- Use existing data in agency planning documents and databases
- Use quantitative data where available; use qualitative data when necessary
- Do not include projects that are unlikely to occur, or those deemed to be remote or speculative

DRAFT

Thank you for participating as a cooperating agency on the Rosemont Copper Project Environmental Impact Statement. As a cooperating agency, you have had the opportunity to learn more about the proposed action and to visit the site. You have also been briefed on the results of scoping (June 2009), preliminary issues (June and July 2009), and considerations for alternatives and mitigation (July and August 2009). Materials from the monthly coordination meetings are posted to the project website at [www.RosemontEIS.us](http://www.RosemontEIS.us).

I am writing today to request cooperating agency information that will support the interdisciplinary team's analysis of potential direct, indirect, and cumulative effects. Specifically, I am requesting each cooperating agency to submit a Catalog of Activities, as discussed during the September 2009 Coordination Meeting.

Your agency's Catalog of Activities should be provided using the enclosed spreadsheet. Please identify past, present, and reasonably foreseeable activities that you are aware of on Federal, non-Federal, and private lands as you deem appropriate. [[Save the following instructions for the spreadsheet instruction page?? **Yes** – Then use this sentence “Additional instructions are included on the enclosed spreadsheet.]] Web links to other sources of information and databases are acceptable. An exhaustive listing of past activities may not be particularly useful since past actions are reflected in the existing condition. Past actions listed should be those that have a special relevance to understanding the existing condition. [Anything special about present actions? – **No**, omit this sentence.] In describing reasonably foreseeable activities, address the likelihood of occurrence such as the existence of a decision or authorization, funding, etc. Where quantitative information is not readily available, qualitative data may be used. Include in the activity description regulatory thresholds if applicable.

Your Catalog of Activities should be provided on official letterhead by October 9, 2009, to Cooperating Agency Liaison Teresa Ann Ciapusci at 300 West Congress Street, Tucson, AZ 85701. Questions related to this request should be directed to Ms. Ciapusci at (520) 388-8350.

## Rosemont Copper Project Catalog of Activities Examples

Agency Name: Jingo County

Date: September 2009

ACTIVITY TYPE	ACTIVITY NAME OR DESCRIPTION	YEAR	UNIT OF MEASURE	DESCRIPTION
<b>Past</b>	Road Maintenance T15S, R3W, Sections 16-18, Mount Diablo Meridian	Completed 2007	3 miles of Level III road	Jingo County periodic road maintenance to contour and gravel County Road 555 from junction with Forest Road 222 to junction of State Hwy 44
<b>Present</b>	Range Improvement – Indigo Allotment water guzzler installations	Ongoing 2009	5 of 7 guzzlers installed and operational	Permittee installation of water guzzlers for livestock and wildlife use in Rodeo (2), Vaquero (3), and Pack-Mule (2) Pastures. Pack Mule and Vaquero installations complete. Rodeo—estimate completion in November 2009 before snowfall
<b>Reasonably Foreseeable</b>	Sapphire Ring Mine	Planned 2011	Estimate 35 acres land disturbance for mine and facilities	Proposed gemstone mine in the Smokey Bear Ecosystem Management Area. NEPA and Final MPO complete. Awaiting appeal review decision.
<b>Future (Remote or Speculative)</b>	Fly-Fishing Cooperative Partnership - Turbidity Creek Restoration Project	Planned 2020	Unknown	Proposal by partnership group to repair stream bank structure, replant native riparian vegetation, and reintroduce native fish to improve fishing opportunities if grant funded.

Shared with Cooperating Agencies (September 2009 Coordination Meeting)

	A	B	C	D	E	F	G	H	I	J	K	L
1												
2	<b>Enter the name of your agency.</b>											
3	<b>Enter past, present, and reasonably foreseeable activities on the respective tabs.</b>											
4												
5	<b>Year Start:</b> Enter date or "ongoing"											
6	<b>Actual / Estimate:</b> Use drop down to indicate if date is "actual" or "estimate"											
7	<b>Year End:</b> Enter date or "ongoing"											
8	<b>Actual / Estimate:</b> Use drop down to indicate if date is actual or estimate											
9	<b>Activity Type:</b> Use drop down to indicate type of activity											
10	<b>Quantity:</b> Use values and specify units or insert the word "qualitative" and describe the qualitative data under the "Description" column											
11	<b>Location / Description:</b> Provide narrative description of location, including legal description if known. Provide narrative description of the activity.											
12												
13	<b>Additional Instructions:</b>											
14	<b>A</b>	Web links to other sources of information and databases are acceptable;										
15	<b>B</b>	An exhaustive listing of past activities may not be particularly useful since past actions are reflected in the existing condition. Past actions should be those that have a special relevance to understanding the existing condition;										
16	<b>C</b>	In describing reasonably foreseeable activities, address the likelihood of occurrence such as the existence of a decision or authorization, funding, etc. Where quantitative information is not readily available, qualitative data may be used.										
17	<b>D</b>	Where applicable, include in regulatory thresholds in the the activity description.										

Example Activities

	A	B	C	D	E	F	G
1	<b>ROSEMONT COPPER PROJECT EIS CATALOG OF ACTIVITIES</b>						
2							
3	<b>Name of Cooperating Agency:</b>						
4	<b>Year Start</b>	<b>Actual / Estimate</b>	<b>Year End</b>	<b>Actual / Estimate</b>	<b>Activity Type</b>	<b>Quantity</b>	<b>Location / Description</b>
5	<b>Past Activity Example</b>						
6	2000	Actual	2007	Actual	Road	3 miles	Jingo County periodic road maintenance to contour and gravel County Road 555 from junction with Forest Road 222 to junction of State Hwy 44 (Sections 8, 9, 10, T66S, R77E)
7	<b>Present Activity Example</b>						
8	2008	Actual	2011	Estimate	Watershed	Lone Creek Segments 3, 5, 7, and 9	Ongoing work to install rip rap to reduce streambank erosion. Segments 3 (0.5 miles) and 5 (0.6 miles) completed on both banks. Segment 7 (2.1 miles) east bank installation complete - west bank planned for completion in 2009. Segment 9 (estimate .7 miles) scheduled for initiation in 3rd quarter 2011. North quarter T66S, R37E
9	<b>Reasonably Foreseeable Activity Example</b>						
10	2015	Estimate	2035	Estimate	Special Uses	35 acres land disturbance	Sapphire Ring Mine: Proposed gemstone mine in the Smokey Bear Ecosystem Management Area (Southwest quarter, T66S, R37E). NEPA decision and Final MPO complete. Awaiting appeal review decision

Past Activities

	A	B	C	D	E	F	G
1	<b>ROSEMONT COPPER PROJECT EIS CATALOG OF ACTIVITIES</b>						
2							
3	<b>Name of Cooperating Agency:</b>						
4	<b>Year Start</b>	<b>Actual / Estimate</b>	<b>Year End</b>	<b>Actual / Estimate</b>	<b>Activity Type</b>	<b>Quantity</b>	<b>Location / Description</b>
5							
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