

4.8.21 Wildlife and Fisheries Resources

Total past actions, present actions, and RFFAs would result in up to approximately **954,808** acres of habitat disturbance in the CESA; however, approximately 44,094 acres of habitat disturbance is, or would be, associated with habitat stabilization, rehabilitation, and rangeland improvements that would result in positive impacts to wildlife and fisheries resources in the CESA. Significant cumulative impacts to the wildlife and fisheries habitat in the CESA would not be anticipated because the vast majority of land would be reclaimed. Even though none of the perennial drainages, including those that support sport fisheries, would appear to be affected hydrologically, there is a potential to affect stream flow through ground water pumping from the Slower, Longer Project Alternative and thus affect the fisheries **and wildlife to a greater extent than the Proposed Action because of the greater extent of ground water drawdown and the longer duration of the Project**. Due to the widely dispersed nature of the existing and reasonably foreseeable individual mining projects within the CESA, cumulative noise and traffic impacts would not cause a substantial disturbance to wildlife populations or critically reduce use of their habitat.

Mitigation for impacts to wildlife resources is presently in Chapter 3 of this EIS and includes measures to protect greater sage-grouse, LCT, and migratory birds. Impacts to other wildlife and fisheries resources are below the level of significance.

4.8.22 Transportation and Access

The current access of the public lands within the Project Area are similar to those within the CESA and common to the region. The current transportation uses in the vicinity of the Project Area are similar to those with the CESA and common to the region. The cumulative and incremental effect of the permanent loss of public lands managed for multiple uses (734-acre area of the open pit) within the CESA would be below the level of significance; however, under the RFFA, of the sale of a major portion of the Project Area, access through that portion of the Project Area would be substantially changed.

4.8.23 Forest Products

Total past actions, present actions, and RFFAs would result in up to approximately **15,913** acres of surface disturbance that would affect forest products. The past actions are generally not subject to any reclamation activities. The present actions and RFFAs associated with mineral, geothermal, and oil and gas operations are subject to reclamation requirements, which would minimize any impacts; however, all other present actions and RFFAs would not be subject to reclamation requirements. The CESA for forest products covers approximately 515,000 acres. Therefore, all actions within the CESA would affect approximately **three** percent of the vegetation within the CESA. The Proposed Action would disturb approximately three percent of the CESA. The amount of area that would not be reclaimed (734 acres) associated with the open pit for the Slower, Longer Project Alternative represents less than **five** percent of the total surface disturbance resulting from past, present, and RFFAs. The vegetation communities within the CESA are similar to those within the Project Area and common in the region. The cumulative and incremental effect of vegetation removal or modification would be below the level of significance.

4.9 Irreversible/Irretrievable Commitment of Resources

Construction and operation of the Project could result in either the irreversible or irretrievable commitment of certain resources. Irreversible is a term that describes the loss of future options. It applies primarily to the effects of use of nonrenewable resources, such as minerals or cultural resources, or to those factors, such as soil productivity, that are renewable only over very long periods of time. Irretrievable is a term that applies to the loss of production, harvest, or use of natural resources. For example, livestock forage production from an area is lost while an area is serving as a mining area. The production lost is irretrievable, but the action is not irreversible. If the use changes and the mine is reclaimed, it is possible to resume forage production. Irreversible and irretrievable impacts of the Proposed Action are summarized in Table 4.9-1.

Table 4.9-1: Irreversible and Irretrievable Commitment of Resources by the Proposed Action

Resource	Irreversible Impacts	Irretrievable Impacts	Explanation
Water Resources- Water Quantity	Yes	Yes	Water removed from the aquifer and used in the operations would not be available for other uses. In addition, springs and surface waters may have decreased flows and limited uses.
Water Resources- Water Quality	No	No	The Proposed Action would not result in an irreversible or irretrievable commitment of resources.
Geology and Mineral Resources	Yes	Yes	Mineral resources that are mined would no longer be available for future production.
Paleontology	No	No	The Proposed Action would not result in an irreversible or irretrievable commitment of resources.
Air Resources	No	No	Emissions from the Project would not deteriorate the existing air quality of the air basin. In addition, air impacts are not considered irreversible because they would cease when mining operations cease.
Visual Resources	Yes	Yes	Impacts to visual resources would result in unavoidable physical changes in the existing contour, line, texture, and character of the Project Area. The changes would be visually apparent over the active life of the Project. These would diminish through the completion of reclamation and revegetation activities; however, they would not be eliminated.
Soil Resources	Yes	Yes	Soils from the open pit, waste rock dump, and heap leach/tailings areas would be salvaged for use in the reclamation activities. There would be a permanent loss of soil from wind and water erosion, as well as some amount of soil that would not be recovered and stockpiled.
Vegetation Resources	Yes	Yes	A total of 734 acres of vegetation would be lost as a result of the open pit development. There is a potential for a change in phreatophyte composition and percent cover in the drawdown area in Kobeh Valley.
Invasive Nonnative Species	No	No	Implementation of reclamation and the noxious weed monitoring and control plan would reduce or eliminate the establishment of noxious weed infestations.

Resource	Irreversible Impacts	Irretrievable Impacts	Explanation
Wetland/ Riparian Zones	No	Yes	Certain springs and their associated wetlands would be removed or buried as a result of the development of the open pit and WRDFS. Following Project completion and reclamation, residual adverse impacts to riparian zones from the Proposed Action would be minor. The Project would not result in the removal or disturbance of wetlands in the Project Area.
Livestock Grazing and Production	Yes	Yes	There would be a loss of 781 AUMs associated with the Project that would be reversible. There would be an irreversible and irretrievable loss of 32 AUMs.
Wild Horses	Yes	Yes	The Proposed Action would result in the unavoidable loss of up to 734 acres of wild horse foraging habitat resulting from surface disturbance in the open pit area. In addition, in the short term, wild horses would lose access to over approximately 14,204 acres of habitat, which equates to a large portion of their existing HMAs. Wild horses would also be affected by the loss of water sources. Once reclaimed, the mine site may not be usable due to lack of waters. Also, water drawdown could cause permanent loss of riparian systems, and even if water levels resume, the loss of seed source, permanent change of soils, and the site may not be able to support riparian systems again.
Land Use	Yes	Yes	The Proposed Action would result in the unavoidable loss of up to 734 acres of public lands utilized for livestock grazing and mineral exploration. There would be no residual impact to access resulting from the Proposed Action. The Proposed Action would have the unavoidable, but reversible, indirect potential to adversely affect access through the Project Area for the life of the Project.
Recreation and Wilderness	Yes	Yes	The Proposed Action would result in the unavoidable loss of up to 14,204 acres in the short term, and an unavoidable and adverse loss of 734 acres in the long term of public land managed for multiple uses, including dispersed recreation. Certain recreation opportunities associated with surface water features may be indirectly affected due to the drawdown of the water table.
Auditory Resources	No	No	Noise is not considered irreversible because it would cease when mining operations cease.
Socioeconomic Values	Yes	Yes	The economic wealth generated from the production and further use of the molybdenite resources underlying the Project would be irreversible. The jobs, income, and taxes created over the life of the Project reflects irreversible resource commitment to achieve such production, but also represents a measure of economic benefits associated with the Project. The economic value associated with the molybdenite resources underlying the Project would be irreversible once removed. The unavoidable long-term loss of 734 acres of public land managed for multiple users represents an irretrievable social and economic impact with respect to loss in recreation opportunity and AUMs. This irretrievable impact is relatively small when compared to the availability of recreation and AUMs in the vicinity of the Project.
Environmental Justice	No	No	No irreversible or irretrievable environmental justice issues have been identified as a result of the Proposed Action.

Resource	Irreversible Impacts	Irretrievable Impacts	Explanation
Hazardous Materials	No	No	No irreversible or irretrievable hazardous materials impacts are anticipated; however, if a spill were to affect a sensitive resource, an irretrievable impact could occur pending the recovery of the resource.
Historic Trails	Yes	No	The visual setting for the historic trail is irreversible changed by the Project. The overall impact to historic trail access is not irreversible or irretrievable.
Cultural Resources	Yes	Yes	With the implementation of mitigation measures, the Proposed Action would result in a less than significant impact; however, the potential impact would remain an irreversible and irretrievable commitment of cultural resources.
Native American Traditional Values	Yes	Yes	The removal of cultural sites from the landscape is an irretrievable commitment of Native American resources. No other irreversible or irretrievable impacts to Native American Traditional Values have been identified as a result of the Proposed Action.
Wildlife and Fisheries Resources	Yes	Yes	A total of 734 acres of wildlife habitat would be lost as a result of the open pit development.
Transportation and Access	No	No	No other irreversible or irretrievable impacts to Transportation and Access have been identified as a result of the Proposed Action.
Forest Products	No	Yes	Forestry products in the area of the open pit would be irretrievably committed as a result of the development of the open pit.

5 CONSULTATION, COORDINATION, PUBLIC INVOLVEMENT, AND THE LIST OF PREPARERS FOR PREPARATION OF THE EIS

5.1 Public Scoping

The scoping period was initiated by publication in the **FR** of a NOI to prepare an EIS for the Project (Volume 72, No. 41, Friday, March 2, 2007, Page 9579). In addition, the BLM prepared and distributed news releases to the Elko Daily Free Press, Battle Mountain Bugle, and Reno Gazette Journal. A scoping letter was also distributed to government agencies, organizations, and individuals. The formal scoping period officially began on March 2, 2007, when the NOI was published and closed on Friday, April 2, 2007. The NOI invited scoping comments to be sent to the BLM through April 6, 2007. Public scoping meetings for the Project were held on March 27 and 28, 2007.

The meeting on March 27, 2007, was held in Eureka, Nevada, at the Eureka Opera House. A total of five members of the public attended this meeting, and no written comments were received.

The meeting on March 28, 2007, was held in Battle Mountain, Nevada, at the BLM MLFO. A total of 30 members of the public attended this meeting, and one written comment was provided.

A total of six written public comments or letters were received by the BLM during the 30 day public scoping period. In addition, three letters were received three months after the close of the public comment period. A summary of the issues that were identified during scoping are summarized in Section 1.8 of this EIS.

5.2 Environmental Impact Statement Preparation

In preparing the EIS, the BLM communicated with and received input from federal, state, and local agencies, as well as private organizations and individuals. The following is a list of the agencies and private organizations that provided input:

Federal Government Agencies

United States Environmental Protection Agency
National Park Service
United States Fish and Wildlife Service

Tribes

On February 6, 2007, the MLFO mailed certified consultation initiation letters (Appendix F) to ten recognized tribal governments: Te-Moak Tribal Council; Elko Band Council; Wells Band Council; Battle Mountain Band Council; South Fork Band Council; Ely Shoshone Tribe; Duckwater Shoshone Tribe; Yomba Shoshone Tribe; Duck Valley Shoshone-Paiute Tribes; and the Timbisha Shoshone Tribe. Letters were also mailed to the Bureau of Indian Affairs, Eastern Nevada Agency, Western Shoshone Defense Project, and the Western Shoshone Committee of Duck Valley.

The MLFO also provided the services of an ethnographer to assist the BLM and tribal participants in identifying any specific traditional/cultural site, activity, and resource concerns. A list of the number of follow-up contacts with each recognized tribal government and organizations is presented in Table 5.2-1. The table in Appendix F provides the dates for these contacts.

Table 5.2-1: Number of Follow-up Contacts with Tribal Governments

Recognized Tribal Government / Organizations	Number of Contacts
Battle Mountain Band Council	3
Duckwater Shoshone Tribe	56
Elko Band Council	4
Ely Shoshone Tribe	4
South Fork Band Council	5
Te-Moak Tribal Council	2
Wells Band Council	5
Yomba Shoshone Tribe	4

State Government Agencies/Universities

Nevada Division of Forestry
 Nevada Department of Wildlife
 Nevada Natural Heritage Program
 Nevada **Division** of Environmental Protection

Local Governments

Eureka County

Private Organizations

None currently identified.

5.3 Comments on the Draft EIS and Responses

5.3.1 Public Review Period

A 90-day public comment period for the Mount Hope Project Draft EIS commenced on December 2, 2011, with the publication of the Draft EIS Notice of Availability in the FR (Volume 76, No. 232, Friday, December 2, 2011, Page 75554). The public comment period ended on March 1, 2012.

Two public meetings were held for the Draft EIS. A meeting was held in Eureka on January 18, 2012, and a meeting was held in Crescent Valley on January 19, 2012.

A total of 195 people signed the sign-in sheets at the public meetings.

5.3.2 Public Comments

Agencies, organizations, and interested parties provided comments on the Draft EIS via mail, email, and oral comments at public meetings. The BLM received a total of 941 comment letters, emails, and oral comments during the public comment period. The breakdown of these by commenters is as follows:

- Agency Comments
 - Federal agencies - 2
 - State agencies - 2
 - Local agencies - 5
- Tribal Comments - 1
- Organizations - 7
- Businesses - 94
- Individuals - 380
- Post cards/Form letters - 450

Table 5.3-1 includes a list of all commenters.

Public comments and responses to public comments are included in Appendix H. Section 1.0 of Appendix H includes a list of all public comments received, as well as responses to all individual comments. Where the response to a public comment has been grouped with other similar comments, a grouped response is referenced.

Section 2.0 of Appendix H includes a list of all grouped responses. A CD is attached to the back of Volume III of the FEIS that includes all public letters, emails, and oral comments numbered. The CD also contains individual substantive or actionable comments that were identified in each letter, email, and oral comment with brackets in the text and numbers in the margin.

Table 5.3-1: Commenters on the Mount Hope Draft EIS

Letter Number	Commenter	Affiliation (if applicable)
1	Andrea and Doug Corley	
2	USA Citizen 1	USA Citizen Live
3	Jim Riley	
4	Stefan Cap	
5	Barney Johnson	
6	Seth Foreman	General Moly, Inc
7	Deborah Coulter	
8	Alan Edwards	
9	Peter Freeman	Cutfield Freeman & Co. Ltd.
10	Bob Vogels	
11	Dave Edwards	Tyco Flow Control – Mining Group
12	Johnny Ellis	Tyco Flow Control – Mining Group
13	Matt deLongchamps	Tyco Flow Control – Mining Group
14	Margie Ellis	
15	David Gambetta	TV&C Reno

Letter Number	Commenter	Affiliation (if applicable)
16	Wade Webster	Tyco Flow Control – Mining Group
17	Michael LaChance	Tyco Flow Control – Mining Group
18	Glen Inlow	
19	Keith Spaulding	Tyco Flow Control – Mining Group
20	John Ellis	Tyco Flow Control – Mining Group
21	Stephen Wilson	Marsh USA Inc.
22	Mark Compton	
23	Laura Skaer	
24	Sharon R. Byram	Ryan
25	Dave Naney	
26	Devon Downing	
27	Sergio Cattalani	
28	Danny Taylor	
29	Doug Parker	
30	Nolan Smith	
31	Philip Mulholland	
32	Lynne Volpi	
33	Frank Blair	
34	Jonathan Brown	
35	Richard Brown	
36	Tom Lewis	
37	Reed Lowe	
38	Kris McCaig	
39	John Schaff	
40	John Mastor	
41	Kalyn Galvez	
42	Joseph Kizis	
43	Joseph Laravie	
44	Joseph Greene	
45	Ken Cunningham	
46	Michael Smith	
47	Lorin Ottonello	
48	Brian Goss	
49	Keith Williams	
50	Stephen Antony	
51	Ta Li	
52	Ebrahim Tarshizi	
53	Mike Creek	
54	Robert Parker	
55	Debi Nelson	
56	Nance Card	
57	Jay Taylor	
58	Walter Martin	
59	John Klundt	
60	Dan DeLauder	
61	J.B. Pennington	
62	Gordon Sobering	
63	Jon Carpenter	
64	Arne Bakke	
65	Betty Gibbs	
66	Bill Rogers	
67	Jeremy Taylor	
68	Patricia Nelson	

Letter Number	Commenter	Affiliation (if applicable)
69	Chuck Zimmerman	
70	Val Gardner	
71	Kelly Sutherland	
72	Kimi Diaz	
73	William Rogers	
74	Andy Schumacher	
75	Sean Davis	
76	William Wahl	
77	Micheal Neumann	
78	Stefan Wenger	
79	Erik Novoa	
80	George Byers	
81	Debra Struhsacker	
82	Richard Bullock	
83	Thomas Callicrate	
84	Paula Russell	
85	Arthur Rogers	
86	NikKayla Simon	
87	Armando Edmiston	
88	Morris Kaufman	
89	Scott Harker	Comanco Environmental Corporation
90	Kris Jeremiah	
91	Robert C Schenk	
92	John Todd	
93	Ken Brook	
94	Quinn Westmoreland	
95	Keith Larsen	
96	John Welsh	
97	Shannon Thiss	
98	Jerry Zieg	
99	Richard Nielsen	
100	Joan Griffith	
101	Paul Marks	Comanco Environmental Corporation
102	Kenny Sanders	
103	William Ross	
104	SR Viert	
105	Roger Walher	
106	Larry Coon	
107	Dennis Dugal	
108	Jeffry Brumbach	
109	Catherine Clark	
110	David Szumigala	
111	Gregory Barth	
112	Alan Branham	
113	Paul Kaplan	
114	Dayan Anderson	
115	Christopher Rogers	
116	Norman Schwab	
117	Steve Rogers	
118	John R. Stoehr	Dyno Nobel Inc.
119	Chris W. Fleming	Smith Power Products
120	Steve Dorsa	
121	Sally McLeod	

Letter Number	Commenter	Affiliation (if applicable)
122	Don Robinson	
123	Zsolt Rosta	
124	Rober Pate	
125	Mike McDonald	
126	Leslie Creel	
127	David. Watson	
128	Ricahrd Reid	
129	John Duncan	
130	Bruce Arthur	
131	Gladys M. Porter	
132	Paul Sterk	
133	Dave Colburn	
134	Dave Clark	
135	Brian Libby	Comanco Environmental Corporation
136	Ralph Noyes	
137	Richard Lorson	
138	Lennie Boteilho	
139	Kathy Quick	
140	Chris Ennes	
141	Mark Thompson	
142	Brittany Scalabrin	
143	Terry Wampler	
144	Dustin Suhr	
145	Robert Breitling	PetroChem Inc.
146	Gary Pepka	
147	Joseph Boteilho	
148	Ben Suhr	
149	Matthew Nussbaumer	
150	Leo Mercy	
151	Tom Heneghan	
152	Scott Collier	Purcell Global Mining Group
153	Donna Bates	
154	Paul Heward	
155	Isabelle LaBranch	
156	Daniel Openshaw	
157	Dan Golden	
158	Jerry Danni	
159	Tony Marconato	Ledcor Contractors Inc.
160	Snyder Mechanical	Snyder Mechanical
161	Jed Inlow	
162	Bill Wright	Bill Wright Enterprises LLC
163	Robert Parker	Ames Construction, Inc.
164	Wayne & Maribeth Robinson	
165	Jeffrey Paddock	Peavine Construction, Inc.
166	Jean Fierro	Red Lodge Paralegal Services
167	Drew Fleming	Layton Construction Co.
168	Lance Semenko	Q & D Construction, Inc.
169	Randy Schwandt	Cate Equipment Company
170	George Ablah	Ablah Elko, LLC
171	Russ Harvey	Ames Construction, Inc.
172	George Burke	American Assay Laboratories
173	Norman L. Dianda	Q & D Construction, Inc.
174	Annette M. Gough	

Letter Number	Commenter	Affiliation (if applicable)
175	Mike Kummer	Granite Construction Incorporated
176	Mike Hawkins	Interstate Oil. Co.
177	Lee Raine	Raine's Market
178	James Worely	Ruby Mountain Realty & Appraisal Service
179	Claire Morrow	
180	Steve Peterson	
181	Troy Black	
182	Richard Walker	
183	Bradley Thomas	Ames Construction, Inc.
184	Dan Openshaw	Ames Construction, Inc.
185	Angie Negro-Black	
186	Blair Black	
187	Hunter Rosecrans	
188	Dustin Rockwell	Southeast Energy, LLC.
189	Sandy Spoo	
190	Jorden Rosecrans	
191	Tinker Evans	
192	Jeff Heinzen	Grove Madsen Industries
193	Gerey Dillinger	
194	Sherry Goodrich	
195	Donald Whitehead	
196	Truman Sharkey	
197	Kelly Jones	
198	Stephanie Foust	
199	Scott E. Brown	Cashman Equipment
200	Cory Robertson	Cashman Equipment
201	Randy Beck	Cashman Equipment
202	Ruth Haws	
203	Jared Williams	Cashman Equipment
204	Don Mitchell	
205	Kay Chaarpentier	Cashman Equipment
206	Troy Mickelsen	
207	Joe Colicchie	
208	Paul Roberts	
209	John Burrows	
210	Dale Archuleta	
211	Glenn Friederich	
212	Kim Boteilho	
213	Tabatha Teel	Cashman Equipment
214	Matthew Hoffer	
215	Ted Vernes	T Shar Enterprises
216	Pedro Ormaza	Ormaza Construction
217	Russ Fields	
218	Mike Holglund	Crescent Electric Supply Company
219	Roger Peterson	Utah Fabrication Inc.
220	Chris Johnson, Jim Conner, Jay Elquist, John Rice, and Rich Perry	Elko City Council
221	Steve Hansen	
222	Brian Campbell	Purcell Tire
223	Dorrman	
224	Brent Eldridge	

Letter Number	Commenter	Affiliation (if applicable)
225	Virginia Sanchez, Annette George-Harris, Ruby Sam, Alissa Thompson, Nye Penoli	Duckwater Shoshone Tribe
226	Joni Eastley	Nye County Commissioners
227	Kevin Doerr	IE Electric
228	Michael Scheiner	
229	Terrilynn Brown	
230	Dave Janiak	
231	Lennie Boteilho	Ames Construction, Inc.
232	Brad Patterson	
233	Lee Kreutzer	National Park Service
234	Hugh Alexander	
235	Sandra Powers	
236	Jim Motsinger	InterState Oil Company
237	Clark West	Agru America
238	Scott Raine	
239	Ted Antonioli	
240	Dave Cameron	
241	Jeremy Fuller	MMI Tank & Industrial Services
242	Ed Greer	
243	Cliff Eklund	City of Carlin
244	James Worely	Iron Age Metal Works
245	Steve Shappert	
246	Ronald Green	Corrosion Engineering, Inc.
247	Eric Bateman	Aggreko, LLC
248	Luke Spencer	
249	Ann Spencer	
250	Ursula Sindlinger	
251	Al Sindlinger	
252	Ginny Carano	
253	Molly Erwin	
254	James Ithurrealde	
255	Tom Boyer	
256	Sue Orr	
257	Jeremy Deutsch	
258	Keith Van Vranken	H & E Equipment Services
259	Vickie Etchimek	
260	Fay Ward	
261	Melanie Branting	
262	David Barker	
263	Stefan Cap	
264	Ricahrd Persino	
265	Sabrina Reed	
266	Terrell Merrserly	
267	Mike Hill	
268	David Plummer	
269	Nancy Plummer	
270	Duane Hatch	
271	Robert Sellard	
272	Carla Ross	
273	James Sefton	
274	Hugh Ross	
275	Phillip Raz	

Letter Number	Commenter	Affiliation (if applicable)
276	Ryan Hope	GEM State Paper & Supply Co.
277	Mike Garrett	Marmon/Keystone Corporation
278	Italo Arias	
279	Wes Walker	
280	Frank Landt	
281	Tim Roybal	
282	Keith Jensen	
283	Dean Stone	
284	Keith Alexaner	
285	John Reilly	
286	Wedco	Wedco Inc.
287	Dana Selph	Olio Crane Group, LLC
288	Chris Wolford	
289	Willis Campbell	
290	Mike White	
291	David Hersh	
292	Robert Hanlon	Hanlon Engineering & Architecture, Inc.
293	Valerie Sawyer	Hanlon Engineering & Architecture, Inc.
294	William Assenmacher	CAID Industries
295	Margaret Sheen	
296	Stan Holek	
297	Randy and Shelly Rice	
298	Phil Schmitz	
299	Harry Coolidge	
300	Carol Schmitz	
301	Galen Schorsch	
302	Gary Odson	
303	S. Silveria	
304	John Kellerman	
305	Robert Riddle	
306	Dan Kellerman	
307	Chris Patterson	
308	Robert Joslin	
309	Terry Stewart	
310	Richard Weber	
311	Ben Zunino	Eureka County Schools
312	Gary Thurstin	
313	Thomas D. Toole	
314	Nicholas Harvey	
315	Diana Duncan-Elwess, Pam Borda, David Zornes	EDECA
316	Kenneth Justesen	
317	Jimmy Holliman	
318	Kenneth King	
319	Jim Tryon	
320	Lori Tryon	
321	R Earl Overholser	
322	Brenda Overholser	
323	Hunter Rosecrans	
324	Troy Black	
325	Angie Black	
326	Christina Turner	
327	Dennis Bawden	Structural Steel and Plate Fabrication

Letter Number	Commenter	Affiliation (if applicable)
328	Kendall Martin	Pony Express Deli
329	Curvin Martin	Pony Express Deli
330	Kendra Martin	Pony Express Deli
331	Jean Martin	Pony Express Deli
332	Tim Zasadny	
333	Mike Christianson	
334	Tom Boehnke	
335	Frank Pitman	
336	Stephen Oliver	Kaman Industrial Technologies Inc.
337	Stephen Oliver	
338	Gary Hansel	
339	Russ Fleming	
340	LeRoy Watson	
341	Patrick Lanier	
342	Thomas Buttram	
343	Paul Tsai	
344	Tom Jones	
345	Rory Anderson	
346	Phil Melick	
347	Doug Liu	
348	C Vaughan	
349	Eugene Mastin	
350	Jeff Barrett	
351	Mike Riley	
352	Kenneth Furnkranz	
353	Osama Omran	
354	Gordon Schaeffer	
355	Jerald Harris	
356	Darrell Daubert	
357	Bruce Groesbeck	
358	Rick Francom	
359	Skip Canfield	Nevada State Clearinghouse
360	Darcy Grizzle	Project Disbursement Group
361	Lisa Anne	
362	Michael Ahles	
363	Lloyd Morrison	
364	Dan Hamilton	
365	Thomas Shrecengost	
366	George Maniere	
367	Darin Galloway	Broadbent and Associates Inc.
368	John Etchegaray	
369	Fred Etchegaray	
370	Mary Jean Etchegaray	Farmer
371	Patricia Malensy	
372	Richard Wright	
373	Phillippe Blot	
374	Matti Kongas	
375	Robert McIvov	
376	David Taylor	
377	Robert and Sandy Johnston	
378	Alexandra Gallegos	
379	Julio Melgar	
380	Sarah Olson	

Letter Number	Commenter	Affiliation (if applicable)
381	Meredith Mackris	
382	Terry Tilley	
383	Laura Zumwalt	
384	Jim Baumann	
385	Debbie Coffey	
386	Marjatta Heinonen-Semenoff	
387	Eben Robinson	Southwest Energy, LLC
388	John R. Tripi, Jr.	Ames Construction, Inc.
389	Holly Propst	Western Business Roundtable
390	Monika Courtney	
391	Denise Cooksey	
392	Angie Frieauf	
393	Pamela Towne	
394	William Wellisch	
395	Terry Steinberger	
396	Nancy Kolowich	
397	Connie Cunningham	
398	Kathleen Gregg	
399	Phil Fell	Hamilton Solar
400	Steve Hamilton	Hamilton Solar
401	Julie Hudson	
402	Laurie McGregor	
403	Liro Schmidt	
404	Marianne Nana Betts	
405	Anne Pointer	
406	Arthur Giles	
407	LN	
408	Nick Cellini	
409	Katie Gillies	NDOW
410	Josh Gresham	
411	Ron Perry	
412	Barbara Urriola	
413	Doreen Jackson	
414	Steve Schoenbrow	
415	Mike Baxs	
416	Neal Jensen	
417	Nancy Iverson	
418	Richard Hersey	
419	Robert Gonzalez	
420	Chris Hassel	
421	Laura Dolan	
422	R.D. Schierman	
423	Raghoveer Thadisina	
424	Chris Pritchard	
425	Tom Bolles	
426	Aaron Adkins	
427	Pavi Phillips	
428	Jordan Brough	
429	Seth Fredrick	
430	Jef Figveroa	
431	Leoa Punt	
432	James Delcoure	
433	Peschken	

Letter Number	Commenter	Affiliation (if applicable)
434	R. Leidermatt	
435	Micheal Gleason	
436	Jeff Bowman	
437	Jarrett Quinn	
438	Jorge Turrealba	
439	Megan Horst	
440	David Perkins	
441	Al Mortensen	
442	Matt Payne	
443	Jason Allen	
444	Karen Clarke	
445	Cal Caluaghan	
446	Mike Balloy	
447	Qiang Yu	
448	Peter Dahlberg	
449	Tina Rahimign	
450	Larry Beckra	
451	Liz Arnold	
452	Don Jensen	
453	Kurt Keshimaki	
454	Tim Washburn	
455	James Leporge	
456	Tom Dalla Polu	
457	Chris Schauffek	
458	Tyson Gollaher	
459	Kerry Moffett	
460	Matt Fehr	
461	Grace Hinke	
462	Joe Galliher	
463	Bryan Watanabe	
464	John Barnes	
465	Lynn Marvin	
466	Karen Barnes	
467	Patrick Miller	
468	G. Fedechur	
469	Melissa Gregory	
470	Chuck Van Honten	
471	Mick Salliz	
472	Paul Meisburger	
473	Steve Sratete	
474	Steve Cattani	
475	Michael Orlich	
476	Guborm Brown	
477	Scott Hoenecke	
478	Eric Swanson	
479	Scott Shields	
480	Jim Byers	
481	GN Collins	
482	Dan Nower	
483	Juan Braud	
484	Lynne Volpi	
485	R. Mackelwar	
486	Eric Naquin	

Letter Number	Commenter	Affiliation (if applicable)
487	Ken Grishalen	
488	Nathan Lowe	
489	Debbie Richard	
490	Cindy LaRochelle	
491	Daniel Cameron	
492	Susan Poos	
493	Joh Cox	
494	Daniel Thompson	
495	William Rowe	
496	Cliff Krall	
497	Graham Ell	
498	Steve Nikolayer	
499	Ronald Peterson	
500	Carolyn Curley	
501	Ray Cheff	
502	Chris Icannakis	
503	Angela Gleichsner	
504	Pat Heywood	
505	Wayne Hawley	
506	Phil Pattern	
507	Rowl Chavez	
508	Erika Jordan	
509	Jodie Carnes	
510	Kathy Kreps	
511	Anthony Clark	
512	Tom Wood	
513	Tom Muraski	
514	Olufunsho Ogungbade	
515	Micheal Robins	
516	Dave Loring	
517	Mary Ann Gray	
518	Mathew Gray	
519	Mike Callahan	
520	Jim Kennedy	
521	W. Blackburn	
522	John Kurtsch	
523	Cindy Hamilton	
524	Eric Wanstrom	
525	Miguel Jahncke	
526	Joshua Divalenjro	
527	Tim Myers	
528	Vickie Hill	
529	Brian Jones	
530	Charles Staab	
531	Lisa Dealma	
532	Grant Smith	
533	Harry Donaldson	
534	Chris Adair	
535	David Johns	
536	Jason Guterez	
537	Tim Oliver	
538	Larry Bolton	
539	Shari Hurley	

Letter Number	Commenter	Affiliation (if applicable)
540	Jim Davis	
541	Heather Lawson	
542	Boyd Eisenbraun	
543	George Pruchnolski	
544	Brad Dunn	
545	David Keech	
546	Rick Mansigneur	
547	Paul Westerdale	
548	Manuela Boldini	
549	Edwin Peralta	
550	Neil Prenn	
551	Richard Barkey	
552	Pam Wilkinson	
553	William Wilkinson	
554	Kurt Rossbeager	
555	Corry Govmans	
556	Daniel Robertson	
557	Tom Breasnahan	
558	Scott Wsignan	
559	Brandy Chenoult	
560	Clayton Cross	
561	Brett Jackson Jr.	
662	Ben Gonzales	
563	Rod Hogton	
564	Drew Jenkins	
565	Laereco Aluqueique	
566	Chad Johnson	
567	Debra Evans	
568	Patrick Murphy, Kutta Radios	
569	Allen Douglas	
570	Melyssa McFarland	
571	Julian Collins	
572	Alan Frank	
573	Greg Zekoff	
574	Jeremy Kown	
575	Jason Lamb	
576	Buck Chamberlain	
577	Tim Tebbe	
578	David Milroy	
579	Paul McCarthy	
580	David Pitchford	
581	Dick Sutherland	
582	Sarah Racolta	
583	Bill Watenburg	
584	Shawn Steiner	
585	Wendy Capron	
586	Clayton Thayer	
587	Bob Snyder	
588	Peter Lawsen	
589	Jay McCloskey	
590	Gary Wyss	
591	James Kruger	
592	Thomas Camm	

Letter Number	Commenter	Affiliation (if applicable)
593	Kevin Kennedy	
594	JW Holmes	
595	Dan Howell	
596	Dustin Baker	
597	Jodi Bakon	
598	Vickie Hill	
599	Glenn Mann	
600	Kevin Torpy	
601	Stephan Marin	
602	Toby Clark	
603	Randy Stroop	
604	Sarah Perno	
605	Phil Dalke	
606	Emily Wunder	
607	Clint Welch	
608	J. Chris Pfahl	
609	Alex Deeds	
610	Joh Morris	
611	Lane Maloney	
612	Daray Dalamore	
613	Chris Snow	
614	Stanley Krukowski	
615	Ben McKnight	
616	Sean Gagnin	
617	Tammy Jacobs	
618	L. Carperton	
619	Megan Russell	
620	Todd Sams	
621	Michael Kresl	
622	Kevin Steff	
623	Ron Gundy	
624	Shary Emdy	
625	Dajerie Broedway	
626	Helm Roy	
627	Dave Strahorm	
628	Ernesto Rogus R.	
629	Matt Van Alsbml	
630	Sandra Kunkel	
631	Kevin Kunkel	
632	Jim Barlow	
633	Eric Smith	
634	Chan Milhon	
635	Jarek Drelidy	
636	Chris Wollington	
637	Chuck Gold	
638	Rick Van Buger	
639	Dennis Huckler	
640	LuAnne Bender	
641	Tom Bender	
642	Robert Wingly	
643	Jessica Miller	
644	Jason Felsman	
645	Kim Monett	

Letter Number	Commenter	Affiliation (if applicable)
646	Matt McGarry	
647	Jim Wickens	
648	Bill Perren	
649	Steve Crotty	
650	J. Williams	
651	Kimberly Ng	
652	Frank Traczyk	
653	Steve Tang	
654	Karl Zipe	
655	Carl Spang	
656	Andrea Cocergine	
657	Robyn Fisher	
658	Jav Carranza	
659	Nev Judd	
660	Genevieve Bodnar	
661	Richard Meston	
662	Louis Fernando Arana Florer	
663	Joe Dzrezina	
664	Todd Hollingsworth	
665	Asa Weber	
666	Bill Jacks	
667	Craig McDonald	
668	Tom Bobo	
669	Brain Nortan	
670	Christian Rodriguez Silva	
671	Tom Strombotno	
672	Jeff Franice	
673	Jim Metsa	
674	Lee Brammer	
675	Bob Harris	
676	Mike Edmonds	
677	Paul Feeney	
678	Doug Kuwie	
679	John K Griffith	
680	John Cook	
681	Retti Aguica	
682	Les Naday	
683	Nguyen Do	
684	Alex Scism	
685	Doug Lavin	
686	Scott Schille	
687	Joanna Peck	
688	Nicole Gust	
689	Matt FaBramer	
690	Elizabeth LaBranch	
691	John Tierney	
692	Lane Griffin	
693	Christine Behnke	
694	Kathryn Kosloski	
695	Brett Schug	
696	Mike Dennis	
697	Matt Parkkin	
698	Ken Smith	

Letter Number	Commenter	Affiliation (if applicable)
699	George Edminston	
700	Jans Srandemp	
701	John Krehea	
702	Todd Videlock	
703	Kaithlin Brovksy	
704	Bob Clark	
705	Charles Maes	
706	Daniel Steuber	
707	SA Ravishankar	
708	Pete Tetlow	
709	Michael White	
710	Tom Bailey	
711	Jackie Tressedder	
712	Alex Schloemes	
713	Tim Warden	
714	Calib Warden	
715	Mark Jamyochian	
716	Sheridon Shumway	
717	Rick Romney	
718	Scott McLellan	
719	Jonathon Rowland	
720	John Newmiester	
721	Barney Etzer	
722	Suha Aksoy	
723	Roger Bond	
724	Pete Niemann	
725	Thomas Witt	
726	Jim Brown	
727	Breaker Technology, LTD	
728	Danette Ruhe	
729	Adrian Deneys	
730	Brad Kendwich	
731	David Heckendorn	
732	Jason Jihastone	
733	John Campbell	
734	Ron Babich	
735	Gary Ritter	
736	Alex Jareb	
737	H. Fraser Bringeland	
738	Francisco Benayides	
739	Jorge Lerena	
740	Luszalo Bencze	
741	Louis Primak	
742	Leo Weiman	
743	Bahareh Arabzadeh	
744	Bismark Osei	
745	Daniel Arku	
746	Kathleen Tew	
747	Nick Culbreth	
748	Gop Bylanpodi	
749	Rebecca Bickal	
750	Megan Bickal	
751	Candy Mihilas	

Letter Number	Commenter	Affiliation (if applicable)
752	Danizth Larsa	
753	Damon Cochrane	
754	Zack Fairblacks	
755	Dan Boden	
756	Tom Lepak	
757	Bob Hibus	
758	Mike Haywood	
759	Jennifer Leinart	
760	Colt Everly	
761	Camille Prenn	
762	Cecil Ulrich	
763	Catherine Lao	
764	Michael Devin	
765	Kenneth Griffin	
766	Randy Kammadal	
767	David Miller	
768	Joe Poplawski	
769	Edmund Jong	
770	Eric Chevey	
771	Ron Woolf	
772	Mike Kelly	
773	Mike Dryden	
774	Kenny Sherrill	
775	Sole Bode	
776	Steven Newman	
777	Mikayla Bowers	
778	Julie Wallace	
779	Jason Wilson	
780	Kent Lang	
781	Ed Diekman	
782	Christine Parkens	
783	Ashok Amin	
784	Louis Boone	
785	Steve Page	
786	Nicole Lanzel	
787	Tom Wayrengl	
788	Loel Renshaw	
789	Matt Donovan	
790	Dana Renshaw	
791	David Moore	
792	Bobby R Peek	
793	Thea Miller	
794	Erikka Purnell	
795	Anthony Sendek	
796	Ken Conley	Conley Land & Livestock, LLC
797	Rebecca Ratcliff	
798	Sophia Peranteau	
799	Marilyn Wilson	
800	Tim Swendsied	
801	Lisa Norman	
802	Marty Plaskett	Diamond Valley Hay Company
803	Leonard Fiorenzi, Mike Page, J.P. Ithurralde	Eureka County Board of Commissioners

Letter Number	Commenter	Affiliation (if applicable)
804	Jette Seal	
805	Carolyn Bailey	
806	Wolfgang Baum	
807	Ryan Tilstia	
808	Kollene Schwartz	
809	Lelio Gallo	
810	Sean Martinez	Modular Mining Systems, Inc.
811	Jim Collord	
812	Jeff Thompson	Codale Electric Supply, Inc.
813	Patrick Rogers	Eureka Moly, Inc.
814	Jared Webley	
815	Luke Russell	
816	Roger and Judy Allen	
817	Jeffrey Bell	
818	John Burrows	
819	Cat Kindsfather	
820	Kathleen Bailey	
821	Erron Boes	
822	Tom Day	Interstate Safety & Supply, Inc.
823	Mark Moyle, Vickie Buchanan, Marty Plaskett, Tim Bailey, Fred Etchegaray, Ken Conley, Jerry Sestanovich, Jim Bauman, Lloyd Morrison	Mark Moyle Farms LLC
824	Mark Moyle, Vickie Buchanan, Marty Plaskett, Tim Bailey, Fred Etchegaray, Ken Conley, Jerry Sestanovich, Jim Bauman, Lloyd Morrison	Diamond Natural Resources Protection and Conservation Association
824	Fabreeka - Nay Ham	
826	Gabriel Screst	
827	Larry McHugh	
828	Art Dorado	
829	Jesus Figureroa	
830	Sherry Gaddy	
831	Ronald Parratt	
832	Dennis Gaddy II	
833	Eric Struhsacker	
834	Sherry Oster	
835	Craig Downer	
836	Donald Palmore	
837	Annette McFarland	
838	Katie Fite	Western Watersheds
839	Rhonda Lanier	
840	Christi Fagerstone	
841	Cornelia Relyea	
842	Connie Sablan, James Stephens, Alex Deeds, Jon Morris, Jason Musso, Connie Sablan, Rhonda Shelton, Nick Korolsky	National Exploration
843	Lena Funston	
844	Jan Chudosky	
845	Lisa Griffith	

Letter Number	Commenter	Affiliation (if applicable)
846	James Maronick	
847	Deborah Hurley	
848	Kate Bremer	
849	Kate Bremer	
850	Paula Denmon	
851	Leslie Peoples	
852	Tami Crisanti	
853	Eileen Hennessy	
854	Lana Verplank	
855	Jack Alexander, Martin Etcheverry	Diamond Cattle Company
856	Laura Skaer	NWMA
857	Rob Pliskin	
858	John Hadder	Great Basin Resource Watch
859	Tara Jackson, Martin Etcheverry,	Etcheverry Family LTD
860	Gayle-Suzanne Barron	
861	Laura Leigh	
862	Linda Horn	
863	Les Davies	
864	Marybeth Devlin	
865	Elyse Gardner	
866	Michael Dwyer	DXP Enterprises
867	Richard Carlgren	BP Limited
868	Thom Seal	
869	Betsey Barker	
870	Mat Wong	
871	Ronald Woodworth	
872	Bob Dinwiddie	
873	Bobbie Dinwiddie	
874	Mike Laughlin	
875	James Eaton	
876	Richard Landers	
877	PJ Benet-Davis	
878	Jean Fierro	
879	Anthony Rowley	
880	Mary Zunino	
881	Lawrence Mohler	
882	Nancy Gray	
883	Lisa Bennett	
884	Bernard Pacheco	
885	Ken Conley	
886	Gerey Dillinger	
887	Mike Lortie	
888	John McHahen	
889	Nate Garner	
890	Richard Carlgren	
891	Roger Osmun	
892	Deon Reynolds	
893	Dustin Weilder	
894	Steve Cook	
895	Cody Dalton	
896	Val Sawyer	
897	Donald Heuser	
898	Zach Spencer	

Letter Number	Commenter	Affiliation (if applicable)
899	Larson Bills	
900	Trish Reynolds	
901	Jared Fitzwater	
902	Maribeth	
903	Bob Burnham	
904	Steve Drimmer	
905	Eric Williams	
906	Mark Moyle	
907	Jake Tibbitts	
908	Dale Bugenig	
909	Scott Raine	
910	Lennie Boteilho	
911	Mike Innacchione	
912	Tony Araguistain	
913	Ken Conley	
914	Kevin Conley	
915	Fred Zumwelt	
916	Sarge Warick	
917	Annette George Harris	
918	Todd Gilligan	
919	John Colby	
920	Carrie Dubray	
921	Bruce Hansell	
922	Jacobsen Construction	
923	Carri Wright	
924	Doug Elder	
925	Paul Heward	
926	Don Smales	
927	Bart Hiatt	
928	Dale Bugenig	
929	Bob Pennington	
930	John Curry	
931	Jake Tibbitts	
932	Bob Harper	
933	Unknown	
934	Pat Dempsey	
935	Gerey Dillinger	
936	Dina Forst	
937	John Andress	
938	Gus Harvey	
939	Randy Rice	
940	Paul Heward	
941	Jared Blumenfeld	Environmental Protection Agency

5.4 Final Environmental Impact Statement Distribution

First Name	Last Name	Company
		American Horse Protection Assoc.
Cathy	Barcomb	Animal Rescue Network International

First Name	Last Name	Company
Mike	Price, Chair	Battle Mountain Band Council
Craig	Roa, Vice Chair	Battle Mountain Band Council
Joseph G.	McDade-Superintendent	BIA-Eastern Nevada Agency
Athena	Brown, Superintendent	Bureau of Indian Affairs, Western NV Agency
Rosemary	Thomas, District Manager	Bureau of Land Management
Kenneth	Miller, District Manager	Bureau of Land Management
Chris	McAlear, District Manager	Bureau of Land Management
Gene	Seidlitz, District Manager	Bureau of Land Management
Mary Jo	Rugwell, District Manager	Bureau of Land Management
Amy	Lueders, State Director	Bureau of Land Management, NV State Office
Kenneth	Parr	Bureau of Reclamation
Rob	Mrowka	Center for Biological Diversity
Joan	Whitney	Cortez Gold Mine Tribal Liaison
Mark & Martin	Etcheverry	Diamond Cattle Co.
Maurice	Frank Churchill	Duckwater Shoshone Tribe
Annette	George-Harris	Duckwater Shoshone Tribe
Virginia	Sanchez, Chair	Duckwater Shoshone Tribe
Alfreda	Jake	Elko Band Council
Gerald	Temoke, Chair	Elko Band Council
Alvin	Marques, Chair	Ely Shoshone Tribe
Mark	Richards	Ely Shoshone Tribe
Opal	Adams	Enviroscientists, Inc.
Richard F.	DeLong	Enviroscientists, Inc.
Jim	Baumann	Eureka County Dept. of Natural Resources
Chad	Bliss	Eureka County Dept. of Natural Resources
Ken	Conley	Eureka County Dept. of Natural Resources
Leo	Damele	Eureka County Dept. of Natural Resources
Carrie	Dubray	Eureka County Dept. of Natural Resources
Jake	Tibbitts	Eureka County Dept. of Natural Resources

First Name	Last Name	Company
Jerry	Todd	Eureka County Dept. of Natural Resources
Jim	Wise	Eureka County Dept. of Natural Resources
Jim	Etcheverry	Eureka Livestock Co.
Kevin	Kinsella	Eureka Moly, LLC
Sharon	Netherton, Executive Director	Friends of Nevada Wilderness
Gary	Snow	Gary Snow Livestock and Grain
Michael K.	Branstetter	General Moly Inc.
		Great Basin Resource Watch
Kristi	McKinnon	JBR Environmental Consultants, Inc.
Pete	Tomera	Julian Tomera Ranches, Inc.
Joy	Brandt	Lander Co PLUAC
Ray	Salisbury	Lander Co PLUAC
Frank	Whitman	Lander Co PLUAC
Philip	Williams, Vice Chairman	Lander Co PLUAC
Louis	Lani	Lander Co. Wildlife, PLUAC, Planning, HRBWA
Gene	Etcheverry	Lander County Executive Director
Alan	Gubanich	LAS Acting President
Ted	Melsheimer	McLeod Ranch & Fishery
Henry	Filippini Jr.	N6 Board
		National Mustang Association
D. Bradford	Hardenbrook, Supervisory Biologist	NDOW
Steve	Cooke, Environmental Services	Nevada Department of Transportation
Tracy	Kipke	Nevada Department of Wildlife
Alan	Jenne	Nevada Department of Wildlife
Mike	Podborny	Nevada Department of Wildlife
Dave	Pulliam	Nevada Department of Wildlife
Robert	Williams	Nevada Fish and Wildlife Office
David	Buhlig	Nevada Land and Resource Company
Henry	Krenka	Nevada Outfitter & Guide Association
Krista	Coulter	Nevada State Clearing House

First Name	Last Name	Company
Lee	Simpkins	NV Energy
John	McLain	Resource Concepts, Inc.
		Rodeo Creek Gold Inc.
Robert	Bear	Shoshone-Paiute Tribes of the Duck Valley Indian Reservation
Ted	Howard	Shoshone-Paiute Tribes of the Duck Valley Indian Reservation
Sim	Malotte, Chair	South Fork Band Council
Marla	Woods	South Fork Band Council
Warner	Barlese, Chair	Summit Lake Paiute Tribe
Ron	Johnny	Summit Lake Paiute Tribe
Richard	Orr	Sustainable Grazing Coalition
Daniel	Petterson, Director	SW PEER
Jack	Alexander	Synergy Resource Solutions, Inc.
Bryan	Cassadore, Chair	Te-Moak Tribal Council
Pat	Stevens	Te-Moak Tribal Council
Makendra	Silverman	The Cloud Foundation
Barbara	Durham	Timbisha Shoshone Tribe
George	Gholson Chair	Timbisha Shoshone Tribe
Steve	Williams, District Ranger	USFS, Austin Ranger District
Aurora	Aboite	Wells Band Council
Paula	Salazar, Chair	Wells Band Council
Deb	Blossom	Western Shoshone Committee
Carrie	Dann	Western Shoshone Defense Project
Katie	Fite, WWP Biodiversity Director	Western Watersheds Project
Dawn	Lappin	Wild Horses Organized Assistance
James	Birchim, Chair	Yomba Shoshone Tribe
Teola	Brady	Yomba Shoshone Tribe
Mark	Bennett	
Steven	Carter	
Alan	Coyner	
Leo	Damele	
Norma	Darrough	
Craig	Downer	
Ellen	Gardner	
Kelly	Hoekenga	
Stanley	Hooper	

First Name	Last Name	Company
James	Ithurralde	
James	Kuipers	
Cindy	MacDonald	
Paul	Mattinen	
Bobby	Peek	
Marjorie	Sill	
Mike & Barb	Stremler	
Kimberly	Wolf	
Baumann Family Trust		
Anthony	Carone	
Alan	Chamberlain, Ph.D.	Cedar Strat Corp.
Debbie	Coffey	
Neal	Tharpe	
Patrick	Plumley	
Carolyn	Bailey	
Representative Shelley	Berkley	
Representative Joe	Heck	
Miles	Shaw	Bureau of Mining & Reclamation - NDEP
Carter	Jessop	US EPA Region IX
Chairperson		Bridgeport Indian Colony
Tim	Arnold	
D.J.	Schulbert	Animal Welfare Institute
Deniz	Bolbol	American Wild Horse Preservation Campagin
Lee	Kreutzer	National Park Service
Lisa	Wolf	
Daniel	Rudnick	
Catherine	Clark	
		Shroeder Law Offices
Jim	Gallagher	
Bob	Burnham	
Ken	Conley	
JJ	Goicoechea	
Andrew	Marshall	
Christine	Smith	
Lee	Raine	
Lloyd	Morrison	
Tim	Bailey	
Rex	Massey	
Dale	Bugenig	
Kirk	Winges	

First Name	Last Name	Company
Senator Dean	Heller	
Senator Harry	Reid	

5.5 List of Preparers

5.5.1 Bureau of Land Management EIS Team

Resource/Responsibility	BLM Team Member	Degree and Experience	BLM Office Location
BLM Project Lead, NEPA Compliance, Environmental Justice	Angelica Rose	A.S. General Studies B.S. Environmental Studies emphasis Geography 8 years experience	Battle Mountain District Office
BLM Project Lead, NEPA Compliance, Environmental Justice	Gloria Tibbetts	M.P.A. B.A. Environmental Studies 5 years experience	Battle Mountain District Office
Cultural Resources, Paleontology	Teresa Dixon	B. A. Archaeology 11 years of experience	Battle Mountain District Office
Native American Traditional Values, Consultation	Gerald Dixon	B.S. Cultural Anthropology 13 years experience	Battle Mountain District Office
Native American Traditional Values	Tim Coward	30 years experience	Battle Mountain District Office
Lands and Realty	Charles Lane	M.S. Geology B.S. Geology 31 years experience	Battle Mountain District Office
Recreation, Wilderness, Visual Resources	Todd Neville	B.S. Psychology, Minor Recreation M.B.A. Business Administration 11 years experience	Battle Mountain District Office
Recreation, Wilderness, Visual Resources	Ethan Arky	B.S. Recreation, Park, and Leisure Studies 1 year experience	Battle Mountain District Office
Livestock Grazing and Production, Vegetation, Soils	Ashley Johnson	B.S. Rangeland Ecosystem Science 3+ years experience	Battle Mountain District Office
Livestock Grazing and Production, Vegetation, Soils	Jason Spence	B.S. Rangeland Resources emphasis in Management; Minor in Crop and Soil Science 12 years experience	Battle Mountain District Office
Hydrology	Jon Sherve	M.S. Hydrology/Hydrogeology B.A. Biological Sciences 15 years experience	Battle Mountain District Office
Hydrology	Tom Olsen	Ph.D. Geology, Engineering 27 years experience	Nevada State Office

Resource/Responsibility	BLM Team Member	Degree and Experience	BLM Office Location
Forest Products, Migratory Birds, Threatened and Endangered Species, Wildlife, Floodplains	Ryan Sandefur	M.S. Applied Natural Science B.S. Biology 10 years experience	Battle Mountain District Office
Forest Products, Migratory Birds, Threatened and Endangered Species, Wildlife	Ethan Ellsworth	Ph.D. Wildlife Resources 20 years experience	Battle Mountain District Office
Wild Horses	Shawna Richardson	B.S. Natural Resource Science with emphasis in Range Management 18 years experience	Battle Mountain District Office
Air Resources	Craig Nicholls	B.S. in Atmospheric Sciences and an M.S. in Atmospheric Sciences 22 years of experience	National Operations Center
Socioeconomics	Joshua Sidon	Ph.D. Economics 5 years experience	National Operations Center
Geographic Information System	Kathy Graham	B.S. Wildlife Management 14 years experience	Battle Mountain District Office
Environmental Coordinator	Christopher Worthington	B.S. Forestry 28 years experience	Battle Mountain District Office
Noxious Weeds, Invasive and Nonnative Species	Michael Vermeys	B.A. Biology 15 years experience	Battle Mountain District Office
3809 Project Lead	Joseph Moskiewicz	A.S. Forestry B.S. Agriculture emphasis Natural Resources 38 years experience	Battle Mountain District Office
Mining Engineer	Larry Turner	B.S. Mining Engineering 30 years experience	Battle Mountain District Office

5.5.2 Third Party EIS Contractor - Enviroscientists, Inc.

Resource/Responsibility	Enviroscientists, Inc. Team Member	Degree and Experience
Project Manager, Land Use Authorizations and Access, Hazardous Materials, Historic Trails, Hydrology, Geochemistry, Native American Traditional Values, Environmental Justice, Cumulative Analysis	Richard DeLong	M.S. Geology M.S. Resource Management B.A. Geology 25 years experience
Geology and Mineral Resources, Visual Resources, Photosimulations, Editor	Opal Adams	M.S. Geology B.S. Geology 30 years experience

Resource/Responsibility	Enviroscientists, Inc. Team Member	Degree and Experience
Assistant Project Manager , Vegetation Resources, Invasive Nonnative Species, Wetlands and Riparian Zones, Livestock Grazing and Production, Wild Horses, Wildlife, Forest Products	Michele Lefebvre	Ph.D. Biology B.A. Biology 7 years experience
Soils	Kaitlin Sweet	B.S. Hydrogeology 2 years experience
Geographic Information Systems	Gail Liebler	M.S. Geosciences B.A. Geology 15 years experience
Technical Support	Nick Mitrovich	M.S. Natural Resource Management B.A. Environmental Studies/Policy 1 year experience
Socioeconomics	Catherine Lee	M.A. Geography B.S. Geography 11 years experience
Auditory Resources (Subconsultant – Brown Buntin Association)	Jim Buntin	B.A. Zoology Board Certification – Noise Control Engineering 38 years experience
Hydrology (Subconsultant – Hydrologic Consultants, Inc.)	Dan Stone	Ph.D. Geophysics B.A. Geology and Physics 21 years experience
Geochemistry (Subconsultant – Integral Consulting, Inc.)	Andrew Nicholson	Ph.D. Geochemistry B.S. Geology 22 years of experience
Ecological Risk (Subconsultant – Integral Consulting, Inc.)	Jennifer Sampson	M.S. Fisheries Certified Senior Ecologist 20 years experience
Cultural Resources (Subconsultant – Western Cultural Resource Management)	Ed Stoner	M.A. Anthropology 26 years experience
Cultural Resources (Subconsultant – Western Cultural Resource Management)	Collette Chambellan	M.A. Anthropology 35 years experience
Native American Traditional Concerns (Subconsultant – ASM Affiliates, Inc.)	Molly Molenaar	M.A. Anthropology B.A. English 10 years experience

Organization	Name	Degree and Experience
RCS, Inc. (socioeconomics)	Rex Massey	B.A. Mathematics B.A. Economics MBA 24 years experience
Dale C. Bugenig Consulting Hydrogeologist, LLC (hydrogeology and water modeling)	Dale Bugenig	M.S. Hydrology and Hydrogeology B.A. Geology 32 years experience
Lahontan Geosciences, Inc. (hydrogeology and water modeling)	Carol Oberholtzer	M.S. Hydrogeology B.A. Earth Sciences 20 years experience
Hanlon Engineering (mine engineering and water use)	Randy Powell (currently employed by Tetra Tech)	B.S. Metallurgical Engineering 36 years experience
Walker & Associates (natural resources)	Steve Walker	B.S. Agriculture and Range Management 33 years experience
Tri Sage Consulting (fisheries biology and natural resources)	Lori Williams	B.S. Chemical Engineering 30 years experience
Chinook Engineering (fisheries biology)	Jay Kidder	B.S. Fisheries Biology B.S. Civil Engineering 27 years experience
Environ (air quality)	Kirk Wings	M.S. Chemical Engineering B.S. Earth and Planetary Science 30 years experience

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6.2 Glossary

Acid Generating Potential (AGP) - The amount of acid-producing constituents in a given material. For rock material, the total sulfur concentration is determined, assumed to be reactive sulfide, and reported in terms of calcium carbonate equivalent per mass of material.

Acre-Foot - Volume of water covering one acre one-foot deep; equal to 325,900 gallons.

Adit - **A horizontal passage leading into a mine for the purposes of access or drainage.**

Alluvial Fan - A low, outspread, relatively flat to gently sloping mass of loose rock material, shaped like an open fan or a segment of a cone, deposited by a stream.

Animal Unit Month (AUM) - **The amount of forage necessary for the sustenance of one cow or its equivalent for a period of one month.**

Annual Duty - The maximum permitted volume of water which may be pumped yearly from a water right or from a designated hydrographic basin.

Appropriate Management Level (AML) - The number of adult horses or burros (expressed as a range with an upper and lower limit) to be managed within an herd management area. Forage for wild horse and burro (AUMs) is allocated based on the AML upper limit.

Aquifer - A water-bearing, subsurface geologic deposit that may be composed either of rock or of unconsolidated sediments such as alluvium.

Authorized Officer - Any employee of the BLM to whom authority has been delegated to perform the duties described in BLM Manual 1203 Delegation of Authority.

Backfilling - With reference to waste rock, it is the relocation of waste rock for final disposition from a waste rock dump located outside of the open pit into the open pit.

Beneficial Use - The use of water for any purpose for which benefits are derived, such as for irrigation, hydroelectric power, and industrial and domestic uses. Benefits vary with locality and custom, and what constitutes beneficial use is often defined by statute or by court decision.

Diversion Rate - The maximum permitted rate at which water may be pumped from a designated hydrographic basin.

Drift - A near-horizontal passageway in a mine, following a vein of ore.

Emergency - An unexpected event that threatens the health and welfare of a wild horse and burro population and/or its habitat. Examples include fire, insect infestation, disease, or other events of a catastrophic and unanticipated nature.

Ephemeral Stream - A stream channel that carries water only during and immediately after periods of rainfall or snowmelt.

Evapotranspiration - Discharge of water from the earth's surface into the atmosphere by transpiration by plants during growth and by evaporation from the soil, lakes, and streams.

Excess Animals - Wild, free-roaming horses or burros that have been removed or which must be removed from the public lands in order to preserve and maintain a thriving natural ecological balance and multiple-use relationship in an area.

Fertility Control - A tool to decrease fertility and which, when implemented, reduces (slows) population growth rates and extends the gather cycle.

Head - The height of a column of fluid necessary to develop specific pressure. Also known as pressure head.

Herd - One or more stallions and their mares and foals.

Herd Area (HA) - Geographic area of the public lands identified as habitat used by wild horses and burros at the time the Wild and Free Roaming Horses and Burros Act was enacted (12/15/1971).

Herd Management Area (HMA) - May be established in those HAs within which wild horses and burros can be managed for the long term. HMAs are designated through the land use plan process for the H-4700-1 Wild Horses and Burro Management Handbook (public) BLM Handbook – 58 – Rel. 4-116 07/07/2010.

Hydraulic Conductivity - A measure of the characteristics of a unit area of an aquifer to allow water to flow through it, frequently expressed as feet per day.

Hydraulic Gradient - The change in the elevation of the water level in an aquifer over a given distance, expressed either as feet per foot or as a dimensionless number.

Hydraulic Head - The height of the free surface of a body of water above a given point beneath the surface.

Intermittent Stream - A stream which flows part of the year, as when fed by runoff or spring flow.

Land Use Plan (LUP) - LUPs provide (by tracts or areas) for the use of public lands. LUPs are prepared in accordance with established land use planning procedures in 43 CFR 1600 and pursuant to Federal Land Policy and Management Act. They establish goals and objectives (desired outcomes), identify the management actions needed to achieve the desired outcomes, and identify the allowable uses of the public lands.

Minimal Feasible Level of Management - The minimum number of habitat or population management tools or actions necessary to attain the objectives identified in approved land use plans and herd management area plans for a herd management area or herd management area complex.

Monitoring - The process of collecting and analyzing the data necessary to evaluate existing management and determine whether progress is being made toward attaining established habitat and population management goals and objectives.

Net Neutralizing Potential (NNP) - The net amount of alkaline or basic constituents in a given material minus acid generating material, or $ANP - AGP = NNP$. Reported in terms of the equivalent mass of calcium carbonate per mass of material.

Neutralizing Potential (NP) - The amount of alkaline or basic constituents in a given material. The capacity of this material to neutralize acidity is determined and reported in terms of the equivalent mass of calcium carbonate per mass of material.

Open stope - Underground working place that is unsupported, or supported by timbers or pillars of rock.

Oxidized Ore - Mineralized rock that is comprised predominantly of oxidized or weathered rock types and is of sufficient economic value to justify mining and recovery costs.

Perched Ground Water - Ground water separated from an underlying body of ground water by an unsaturated zone of soil or rock.

Perennial Stream - A stream or reach of a stream that flows continuously throughout the year and whose upper surface is generally lower than the water table in the region adjoining the stream.

Phreatophytes - Plants (including, but not limited to, greasewood, rabbitbrush, saltgrass in the Project Area) whose root systems tap into the water table.

Playa - A vegetation-free, flat-floored area composed of thin, evenly stratified sheets of fine clay, silt or sand, and representing the bottom part of a valley, completely closed or undrained, desert lake basin in which water accumulates and is quickly evaporated. Low-lying central area of an arid plain in which water collects and is evaporated after a period of surface runoff.

Population Growth Rates - Represent the net effect of births and deaths in any given year. The BLM reports annual population numbers as of February 28th.

Porosity - The volume of open space between sand grains or in fractures through which ground water may flow; usually expressed as a percentage.

Project Area - The area within which EML proposes to conduct the activities associated with the Project, and is described as all or part of, Township 20 North, Range 50 East, Sections 2-5, (T20N, R50E, Secs. 2-5); T20N, R52E, Secs. 5, 8, 9, 16, 21, 26-28, 34-36; T20N, R53E, Secs. 31-35; T21N, R50E, Secs. 1-3, 11-14, 23, 25, 26, 32-36; T21N, R51E, Secs. 1, 7, 8, 12, 16-18, 31; T21N, R52E, Secs. 4-9, 18-20, 29, 32; T21½N, R51½E, All; T21½N, R52E, Secs. 4-6; T22N, R50E, Secs. 25, 36; T22N, R51E, Secs. 1, 2, 11-15, 20-26, 28-36; T22N, R51½E, All; T22N, R52E, Secs. 6-8, 17-20, 29-32; T23N, R51E, Secs. 25, 35, 36 Mount Diablo Base and Meridian.

Project Mine and Process Area - That portion of the Project Area located within the Project fence, and is described as all or part of Sections 1 and 12 T21N, R51E, Sections 4-9, T21N, R52E, Sections 1, 2, 11-15, 22-25, and 36, T22N, R51E, Section 1, T21.5N, R51.5E, Sections 5, and 6, T21.5N, R52E, Sections 1, 12, 13, 24, 25, and 36, T22N, R51.5E, Sections 6, 7, 18-20, and 29-32, T22N, R52E, and Sections 35, and 36, T23N, R51E.

Propylitic - A type of hydrothermal alteration characterized by the formation of calcite, chlorite, epidote, serpentine, quartz, pyrite, and iron oxides.

Prospect - A place giving indication of a mineral deposit; a mine working or excavation undertaken in a search for ore.

Range - With reference to wild horses and burros, the amount of land necessary to sustain an existing herd or herds of wild free-roaming horses and burros, which does not exceed their known territorial limits.

Recharge - Replenishment of water to an aquifer.

Specific Yield - The quantity of water that a unit volume of an unconfined aquifer after being saturated will yield by gravity, expressed either as a ratio or as a percentage of the volume of the aquifer. Specific yield is a measure of the water available to wells.

Standards for Land Health - Standards are statements of physical and biological condition or degree of function required for healthy sustainable rangelands. Achieving or making significant progress towards these functions and conditions is required of all uses of public lands. Historical data, when available, should be utilized when assessing standards.

Storage Coefficient - The volume of water an aquifer releases from or takes into storage per unit surface area per unit change in head.

Thriving Natural Ecological Balance (TNEB) - Wild horses and burros are managed in a manner that assures significant progress is made toward achieving the Land Health Standards for upland vegetation and riparian plant communities, watershed function, and habitat quality for animal populations, as well as other site-specific or landscape-level objectives, including those necessary to protect and manage threatened, endangered, and sensitive species.

Transmissivity - A measure of the rate of ground water flow through a unit width of an aquifer of a given thickness. It is the product of hydraulic conductivity and the aquifer thickness and can be expressed in terms of square feet per day.

Utilization - The portion of annual forage production that has been consumed by herbivores (wild horses and burros, domestic livestock, wildlife, and insects). The term is also used to refer to the pattern of such use.

Wild Free-Roaming Horses and Burros - All unbranded and unclaimed horses and burros that use public lands within ten contiguous Western States as all or part of their habitat, or that have been removed from these lands by the authorized officer, or have been born of wild horses or burros in authorized BLM facilities, but have not lost their status under the Wild and Free Roaming Horses and Burros Act (16 U.S.C. 1332 (f)).

Xeric - Containing little moisture; very dry.

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