



Engineering/Remediation
Resources Group, Inc.
616 First Ave, Suite 300
Seattle, WA 98104

P: 206-282-4749
F: 206-282-4789
www.errg.com

October 6, 2014

Ref.: 2010-084

Mr. Jonathan Heyl
On-Scene Coordinator
USDA Forest Service, Region 6
1220 Southwest 3rd Avenue
Portland, Oregon 97204

Technical Memorandum
September 2014 Site Inspection Report
Blue Ledge Mine
Rogue River-Siskiyou National Forest

Dear Mr. Heyl:

Engineering/Remediation Resources Group, Inc. (ERRG) is submitting this technical memorandum summarizing the site inspection performed on September 30 and October 1, 2014 at the Blue Ledge Mine site. ERRG performed the site inspection in accordance with the operations, maintenance, and monitoring (OM&M) requirements for the Blue Ledge Mine site under U.S. Department of Agriculture Forest Service (Forest Service) Contract No. GS-10F-0294R, Delivery Order No. AG-0489-D-10-0126. For a full list of elements inspected, please see the attached site inspection checklist ([Enclosure 1](#)), overall site plan ([Enclosure 2](#)), and photographic log ([Enclosure 3](#)).

Background

In 2010, ERRG was contracted to perform a removal action to remove waste rock from four waste rock piles (WRPs) near the mine adits. The waste rock was relocated to a newly constructed onsite repository. The repository was capped after the waste rock had been removed from the WRPs. Disturbed soil areas within the reclamation areas were revegetated with native species. Nine pH treatment and sediment basins were constructed below the WRPs to capture sediment and to treat mine drainage prior to discharge into Joe Creek. ERRG was contracted to perform OM&M of the repository cap and structures constructed to control erosion and treat mine drainage, as outlined in the Removal Action Work Plan (RAWP)¹. The RAWP specifies that site inspections will be performed after rain events generating greater than 0.5 inches of precipitation, as recorded by nearby representative weather stations, and on a monthly basis when the site is accessible, which is generally between April through October.

During each site inspection, ERRG reviews the following elements:

- Integrity of the reclamation areas
- Areas where erosion or deterioration has occurred since the last site visit
- Condition of the erosion control and sediment control measures
- Integrity of constructed site elements (documented via photographs)

¹ ERRG, 2010. "Removal Action Work Plan, Non-Time-Critical Removal Action for Former Blue Ledge Mine Site, Siskiyou County, California."

- Condition of reclamation plantings
- Needed maintenance and repairs

Summary of Site Inspection

ERRG inspected all reclamation areas during the September 2014 site inspection. The reclamation areas were observed to be intact and in good functioning condition. The BMPs to control erosion were in good condition. No new erosion was observed on the incoming Forest Road 1060 and haul roads. Overall, the roads were in very good shape. The stockpile areas and WRPs 1, 2, 3, and 4 were observed to have no new erosion. Sediment in basins 1A through 1F was actively being removed at the time of the site inspection as part of the annual summer maintenance activities. Repository drain outlets were inspected and were found to not be plugged and the heavier-duty galvanized screen which was placed on all drain outlets earlier this year was found to be intact. No water was observed to be discharging from the drain outlets or the discharge pipe from the underdrain under the repository.

The following table shows the pH of the water in the Sediment Treatment Basins. As part of the maintenance activities, any water in basins 1A through 1C was pumped out prior to sediment removal. A small amount of water was observed in basins 1D through 1E as a result of the storm event on September 29, 2014. No water was observed in basins 2A, 2B, or basin 3, thus no samples were collected from these locations during this site inspection.

Table 1. pH of Sediment Treatment Basins

WRP-1		WRP-2		WRP-3	
Below 1A (in Joe Creek)	7.7	2A-below	NS	3-below	NS
1A	NS	2A-above	NS	3-above	NS
1B	NS	2B-below	NS		
1C	NS	2B-above	NS		
1D	4.5				
1E	4.4				
1F	4.7				
1F-above	4.7				

Note:

NS = no sample was collected at that location because there was no evidence of water.

The acid seep previously entering the east side of basin 1F is being captured by the USEPA acid seep collection basin. The water seeping from adit A1N2 has been diverted by the USEPA to flow down the face of the WRP-1 bedrock to run to the acid seep collection basin. The pH in the USEPA acid seep basin was measured at 3.8, which is 0.1 higher than measured in August 2014. The USEPA acid seep basin overflow spillway is functioning. The 3.8 pH overflow is running through the rip rap into basin 1E and comingling with the water coming down the main drainage and flowing through basin 1F. This is likely why the pH in basin 1E is lower than above basin 1F. There is effectively a split flow of water between the main drainage into basin 1F and the overflow of the USEPA acid seep basin that does not fully comeingle until it reaches basin 1E. Basins 1E through 1D raised the pH by 0.1 units from 4.4 to 4.5 which is similar to August 2014. Joe Creek pH at the base of WRP-1 was measured to be 7.7, which is 0.8 higher than the measurement collected in August 2014. However, the pH in Joe Creek was measured

using a YSI water quality instrument and all other pH measurements were collected using the pH meter typically used during the site inspection events. The USEPA pilot treatment system is disassembled and not functioning at the time of this inspection.

Reclamation plants and grass were inspected in all areas. Most trees and shrubs showed good overall growth since being planted in November 2011. There is an adequate number of surviving plants at all areas. Grasses are established at all reclamation areas.

The depth to water in the repository sump during the site inspection on October 1, 2014 was measured at 274 inches below the rim. The total depth to the bottom of the sump is 326 inches. Therefore there is 52 inches of water in the sump, which is 15 inches lower than the measurement from the August 2014 Site Inspection. Leachate evaporation has been performed at the repository to dispose of the water from the repository sump on site. The results of the pilot test will be provided in a separate report summarizing the results of the onsite evaporation. The pH of the water in the sump was measured at 6.08. This is 0.08 higher than the measurement taken in August 2014. Sump water level measurements and pH will continue to be recorded during the monthly site inspections.

Site access gates and locks are in good condition, and no evidence of unauthorized access was observed during this site inspection. For a full list of elements inspected, please see the attached site inspection checklist ([Enclosure 1](#)), and photographic log ([Enclosure 3](#)).

If you have any questions or need additional information, please do not hesitate to contact Annica Nord at annica.nord@errg.com or Brian Wetzsteon at brian.wetzsteon@errg.com.

Sincerely,

A handwritten signature in black ink, appearing to read "Annica Nord".

Annica Nord, LG
Project Geologist

A handwritten signature in black ink, appearing to read "Brian Wetzsteon".

Brian Wetzsteon
Northwest Construction Manager

AN

Encl.: [Enclosure 1](#) – September 2014 Blue Ledge Mine Inspection Checklist
[Enclosure 2](#) – Overall Site Plan
[Enclosure 3](#) – September 2014 Site Inspection Photographic Log

cc: ERRG Project File

Enclosure 1. September 2014 Blue Ledge Mine Inspection Checklist

**BLUE LEDGE MINE
INSPECTION CHECKLIST**

MONTHLY INSPECTION
Month: September, Year: 2014

BLUE LEDGE MINE MONTHLY INSPECTION CHECKLIST

Month: September Year: 2014

**Blue Ledge Mine Removal Project
Siskiyou County, California
Operation, Maintenance, and Monitoring Period**

NOTE: All photographs associated with this checklist were taken on September 30 and October 1, 2014; Refer to Enclosures 2 and 3 in the inspection letter.

Repository

1. Inspect the silt fence, wattles, and other BMPs at the Repository and Repository Stockpile Area (see Enclosure 2). Do BMPs require repair or replacement? Yes* No

**If yes, repair or replace damaged components and make recommendations to reduce future damage. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: All SWPPP controls are in place and functioning. No evidence of any erosion.

2. Inspect repository cover soil. Is there evidence of excessive or preferential erosion (see Enclosure 2)? Yes* No

**If yes, notify project manager and place temporary BMPs to minimize further erosion until a solution can be found. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: Straw wattles, Flexterra, and bark are functioning properly.

3. Inspect the repository access road (see Enclosure 2). Are there any areas of excessive erosion or other areas where the road requires repair? Yes* No

**If yes, notify project manager of potential need for repair.*

Comments: _____

4. Inspect repository leachate sump tank and cap (see Enclosure 2). Is the sump and cap in good condition and locked? Is liquid present in the sump? Yes No*

**If no, take several pictures of damage and make repairs to fix or secure prior to leaving site (if possible). If liquid is in the sump, measure the depth (requires a minimum 30-foot tape measure). Collection of a liquid sample may be required for profiling and disposal.*

Comments: Depth to water is 274 inches inches from the rim, bottom of sump is 326 inches, total water depth 52 inches. pH of the water in the sump is 6.08. Leachate sump tank and cap are locked and in good condition. Site has been undergoing leachate evaporation activities.

5. Inspect anchor trench drainage pipes and the repository underdrain where they daylight (see Enclosure 2). Is the screening damaged or is there evidence of the pipes being blocked? Yes* No

**If yes, unblock pipe and/or repair screen.*

Comments: The anchor trench drain pipes are not blocked, screens are intact, and no water is flowing from the drain. A thicker, more durable galvanized screen replaced the damaged screen on all anchor trench drains in May 2014. The underdrain is not blocked, screen is intact, and no water is flowing from the pipe.

6. Inspect the repository stormwater drain ditch (see Enclosure 2). Is the stormwater drain ditch damaged or is there evidence of any portion of the stormwater drain ditch being blocked? Yes* No

**If yes, unblock ditch.*

Comments: _____

7. Inspect plants in the repository and repository stockpile area (see Enclosure 2). Is there evidence that animals have browsed on the plants? Yes* No

**If yes, reapply Big Game Repellant to prevent further browsing. A listing of grass seeds, fertilizers, animal repellants, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: Plants appear healthy. The plants are small as a result of heavy browsing by deer but remain alive.

8. Have plants died in the Repository and Repository Stockpile Areas (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at the repository and repository stockpile areas are shown in the RACR.*

Comments: The grass is seasonally brown. There is red staining on the irrigation system and on the soil. _

9. Inspect Flexterra and grass seeded areas on the repository (see Enclosure 2). Are any repairs needed or invasive species present? Yes* No

**If yes, identify areas for repair or pull weeds and dispose of properly.*

Comments: _____

North Storage Area

1. Inspect road leading to the Repository and North Storage Area (see Enclosure 2). Is there evidence of excessive erosion? Are the water bars damaged? Yes* No

**If yes, apply temporary BMPs and make recommendations for repair. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

2. Inspect the silt fence, wattles, and other BMPs at the North Storage Area (see Enclosure 2). Do BMPs require repair or replacement? Yes* No

**If yes, repair or replace damaged components and make recommendations to reduce future damage. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

3. Inspect Flexterra and grass seeded areas on the North Storage Area (see Enclosure 2). Are any repairs needed or any invasive species present? Yes* No

**If yes, identify areas for repair or pull weeds and dispose of properly.*

Comments: _____

4. Inspect plants in the North Storage Area (see Enclosure 2). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: Plants appear to be growing and are larger than last summer.

5. Have any plants died in the North Storage Area (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at the North Storage Area is shown on Enclosure 2.*

Comments: This area has sufficient live plants. Plants look healthy.

South Storage Area

1. Inspect the silt fence, wattles, and other BMPs at the South Storage Area (see Enclosure 2). Do BMPs require repair or replacement? Yes* No

**If yes, repair or replace damaged components and make recommendations to reduce future damage. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: The uphill silt fence is no longer needed and was previously removed. The lower silt fence is intact.

2. Inspect plants in the South Storage Area. Have animals browsed on plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

3. Have any plants died in the South Storage Area (see Figure P-5)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at the South Storage Area is shown on Figure P-5.*

Comments: _____

4. Inspect Flexterra and grass seeded areas along Joe Creek (see Figure P-5). Are any repairs needed or any invasive species present? Yes* No

**If yes, identify areas for repair or pull weeds and dispose of properly.*

Comments: _____

Rock Stockpile Area

1. Inspect the silt fence, wattles, and other BMPs at the Rock Stockpile Area (see Figure P-6). Do BMPs require repair or replacement? Yes* No

**If yes, repair or replace damaged components and make recommendations to reduce future damage. A listing of approved BMPs for implementation is shown in Appendix H of the SWPPP.*

Comments: There is no existing silt fence. The ground is vegetated and appears to be stable.

2. Inspect plants in the Rock Stockpile Area (see Figure P-6). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: Plants appear healthy. Trees are larger than summer 2013 and appear to be growing.

3. Have any plants died in the Rock Stockpile Area (see Figure P-6)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at the south storage area is shown on Figure P-6.*

Comments: _____

4. Inspect Flexterra and grass seeded areas (see Figure P-6). Are any repairs needed or any invasive species present? Yes* No

**If yes, identify areas for repair or pull weeds and dispose of properly.*

Comments: The grass is growing tall (at least 3 feet) and is established but is brown as a result of the warm, dry season.

Forest Service Roads and Haul Roads

1. Are there areas of Forest Service Road 1060 that have experienced excessive erosion? Yes* No

**If yes, document road condition with photographs and install temporary BMPs to help minimize further erosion. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

2. Are culverts along Forest Service Road 1060 marked and draining properly? Yes No*

**If no, perform necessary maintenance or repair to culvert to return to good working condition.*

Comments: The culverts have been marked with new paint during summer maintenance activities and are clear for drainage.

3. Inspect haul roads 1, 2, 3, and 4; the miner's trail parking area; and the decommissioned haul roads 2 and 4 (see Enclosure 2). Are there areas of excessive erosion? Are water bars damaged?
Yes* No

**If yes, place temporary BMPs and repair damaged water bars. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

4. Inspect BMPs along Haul Roads 1, 2, 3, and 4; the miner's trail parking area; and the decommissioned Haul Roads 2 and 4 (see Enclosure 2). Are BMPs in good condition? Yes No*

**If no, repair and/or replace BMPs as necessary. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

5. Inspect areas of Haul Roads 1, 2, 3, and 4; the miner's trail parking area; and the decommissioned Haul Roads 2 and 4 (see Enclosure 2). Record grass growth progress. Are there bare areas that require reseeding? Yes* No

**If yes, reseed bare areas. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: Grass is becoming established on the roads but is turning brown as a result of the warm, dry season.

Waste Rock Pile 1

1. Inspect log wattles, straw wattles, and other BMPs at the reclamation areas on WRP-1 (See Enclosure 2). Are all BMPs in good condition? Yes No*

**If no, repair and/or replace BMPs as necessary. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: Straw wattles are in good condition and in place.

2. Inspect Flexterra and grass seeded areas at the reclamation areas on WRP-1 (see Enclosure 2). Are any repairs needed or any invasive species present? Yes* No

**If yes, identify areas for repair or pull weeds and dispose of properly.*

Comments: _____

3. Inspect plants at the reclamation areas on WRP-1 (see Enclosure 2). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: . _____

4. Have any plants at the reclamation areas died on WRP-1 (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at WRP-1 is shown on Enclosure 2.*

Comments: The upper tier of the reclamation area is devoid of plants, likely due to seepage of acidic mine drainage from the adjacent bedrock. This area is approximately 20 feet by 30 feet and no plants have survived. The remaining plants are growing very well.

5. Are there areas of excessive erosion on WRP-1 (see Enclosure 2)? Yes* No

**If yes, apply temporary BMPs. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

6. Inspect each sediment treatment basin at WRP-1 (see Enclosure 2). For each basin, record the volume of sediment accumulated (as a percentage of capacity), the amount of fouled limestone (in inches), and the pH of water as listed below (if any). Record and photograph any excessive erosion in or around the sediment basin.

Sediment Treatment Basin 1A (closest to Joe Creek):

Accumulated sediment: 0%

Fouled limestone: N/A

pH in basin 1A: not measured-no water was observed in the basin

pH below basin 1A: 7.7 (in Joe Creek)

Water depth: no water was observed in the basin

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 1B:

Accumulated sediment: sediment was removed during summer maintenance activities

Fouled limestone: N/A

pH in basin 1B: not measured - water in the basin was pumped out prior to sediment removal during summer maintenance activities

Water depth: not measured - water in the basin was pumped out prior to sediment removal during summer maintenance activities

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 1C:

Accumulated sediment: removed during summer maintenance activities

Fouled limestone: N/A

pH in basin 1C: not measured - water in the basin was pumped out prior to sediment removal during summer maintenance activities

Water depth: not measured - water in the basin was pumped out prior to sediment removal during summer maintenance activities

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 1D:

Accumulated sediment: 60%

Fouled limestone: N/A

pH in basin 1D: 4.5

Water depth: 1 foot

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 1E:

Accumulated sediment: 80%

Fouled limestone: N/A

pH in basin 1E: 4.4

Water depth: 3 inches

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 1F:

Accumulated sediment: 100%

Fouled limestone: N/A

pH in basin 1F: 4.7

pH above basin 1F: 4.7

Water depth: 2.5 inches

Excessive erosion around the basin? Yes* No

USEPA Acid Seep Collection Basin:

pH in basin: 3.80

Waste Rock Pile 2

1. Inspect wattles, silt fence, and other BMPs at the reclamation areas on WRP-2 (see Enclosure 2). Are all BMPs in good condition? Yes No*

**If no, repair and/or replace BMPs as necessary. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: Silt fence on the north (upper) side of sediment basins 2A and 2B were previously removed.

2. Inspect plants at the reclamation areas on WRP-2 (see Enclosure 2). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

3. Have any plants at the reclamation areas died on WRP-2 (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at WRP-2 is shown on Enclosure 2.*

Comments: _____

4. Are there areas of excessive erosion on WRP-2? Yes* No

**If yes, apply temporary BMPs. A listing of grass seeds, fertilizers, animal repellants, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

5. Inspect each sediment treatment basin at WRP-2 (see Enclosure 2). For each basin, record the volume of sediment accumulated (as a percentage of capacity), the amount of fouled limestone (in inches), and the pH of the water as listed below (if any). Record and photograph any excessive erosion in or around the sediment basin.

Sediment Treatment Basin 2A:

Accumulated sediment: removed during summer maintenance activities

Fouled limestone: N/A

pH in basin 2A: Not measured; no water in the basin

pH above basin 2A: Not measured; no water

Water depth: No water in the basin.

Excessive erosion around the basin? Yes* No

Sediment Treatment Basin 2B:

Accumulated sediment: removed during summer maintenance activities

Fouled limestone: N/A

pH in basin 2B: Not measured; no water in the basin.

pH above basin 2B: Not measured; no water

Water depth: No water in the basin.

Excessive erosion around the basin? Yes* No

Waste Rock Pile 3

1. Inspect log wattles, straw wattles, and other BMPs at the reclamation areas on WRP-3 (see Enclosure 2). Are all BMPs in good condition? Yes No*

**If no, repair and/or replace BMPs as necessary. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: Straw wattles are in place. Silt fence on the south (upper) side of sediment basin 3 was previously removed.

2. Inspect plants at the reclamation areas on WRP-3 (see Enclosure 2). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

3. Have any plants at the reclamation areas died on WRP-3 (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at WRP-3 is shown on Enclosure 2.*

Comments: _____

4. Are there areas of excessive erosion on WRP-3? Yes* No

**If yes, apply temporary BMPs. A listing of grass seeds, fertilizers, animal repellants, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: Grass appears to be stable but is brown as a result of the warm, dry season.

5. Inspect each sediment treatment basin at WRP-3 (see Enclosure 2). For each basin, record the volume of sediment accumulated (as a percentage of capacity), the amount of fouled limestone (in inches), and the pH of the water as listed below (if any). Record and photograph any excessive erosion in or around the sediment basin.

Sediment Treatment Basin 3:

Accumulated sediment: removed during summer maintenance activities

Fouled limestone: N/A

pH in basin 3: not measured- no water was observed in the basin

pH below basin 3: not measured. No accessible water below basin

Water depth: no water was observed in the basin

Excessive erosion around the basin? Yes* No

Waste Rock Pile 4

1. Inspect log wattles, straw wattles, and other BMPs at the reclamation areas on WRP-4 (see Enclosure 2). Are all BMPs in good condition? Yes No*

**If no, repair and/or replace BMPs as necessary. A listing of approved BMPs for implementation is shown in Appendix G of the SWPPP.*

Comments: _____

2. Inspect plants at the reclamation areas on WRP-4 (see Enclosure 2). Have animals browsed on the plants? Yes* No

**If yes, reapply Big Game Repellent to prevent further browsing. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

3. Have any plants at the reclamation areas died on WRP-4 (see Enclosure 2)? Yes* No

**If yes, estimate number of plants and record it in the comments. The total number of plants installed at WRP-4 is shown on Enclosure 2.*

Comments: Plants looks healthy. _____

4. Are there areas of excessive erosion on WRP-4? Yes* No

**If yes, apply temporary BMPs. A listing of grass seeds, fertilizers, animal repellents, and other reclamation products is shown in Appendix G of the SWPPP.*

Comments: _____

5. Inspect the reinforced slope stability fabric area at WRP-4 (see Enclosure 2). Is the fabric in good condition? Yes No*

**If no, perform maintenance or repair.*

Comments: _____

Additional Notes (Time, temperature, wind direction, evidence of unauthorized access, condition of green gate, locks, and other observations)

9/30/14 9:30 a.m. to 4:00 p.m. and 10/1/14 8:00 a.m. to 2:30 p.m. The weather was sunny with clouds, temperature 45 to 65°F. There was no evidence of unauthorized access. Carlson's Construction and Jeremy Podvin and Eric Cornelious (ERRG) were on site cleaning out sediment basins 1B through 1F. Rob Randall (EPA) was on site dismantling the EPA treatment system near basin 1D. Brian Wetzsteon (ERRG) and Jonathan Heyl (USFS) were on site on 9/30/14. The gates and locks were in good condition with no unauthorized access noted. The site is in good condition. Streams appear to be running clear. Water flowing through basins 1F through 1D was evident. Was had been recently pumped out of basins 1B and 1C prior to sediment removal. Basins 1A, 2A, 2B, and 3 were dry. The pH meter typically used for the monthly site inspection was used to measure the pH with the exception of the pH in Joe Creek which was measured using a YSI water quality meter.

EPA treatment system above basin 1F is not operating.

Annica Nord
Name of Inspector(s)

Engineering/Remediation Resources Group, Inc. (ERRG)
Company



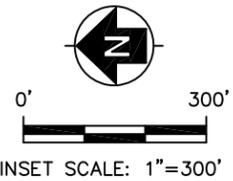
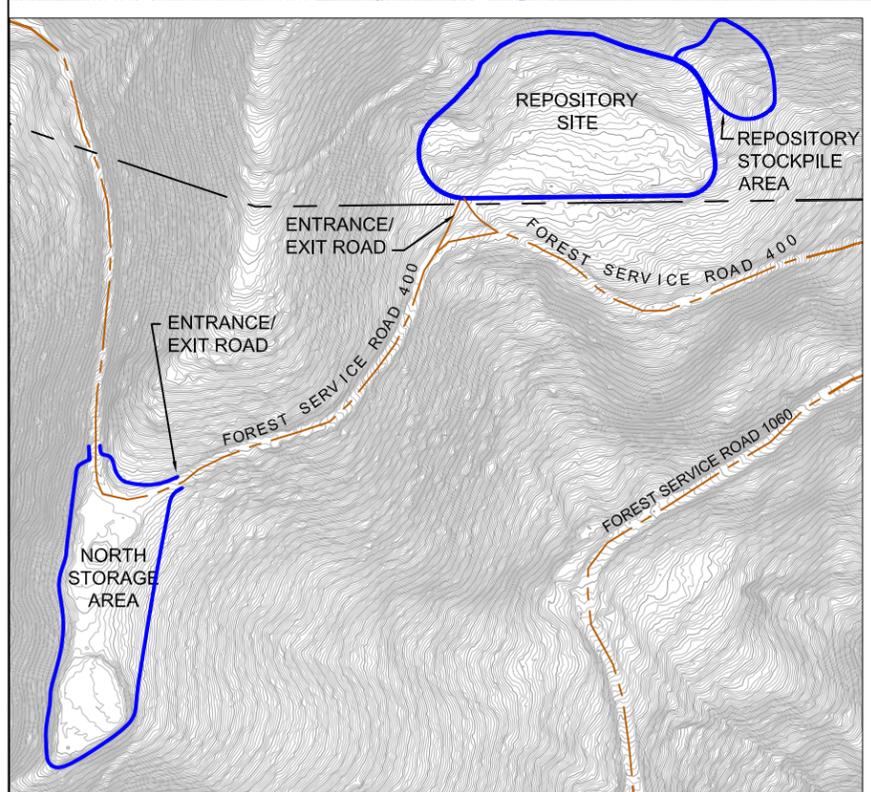
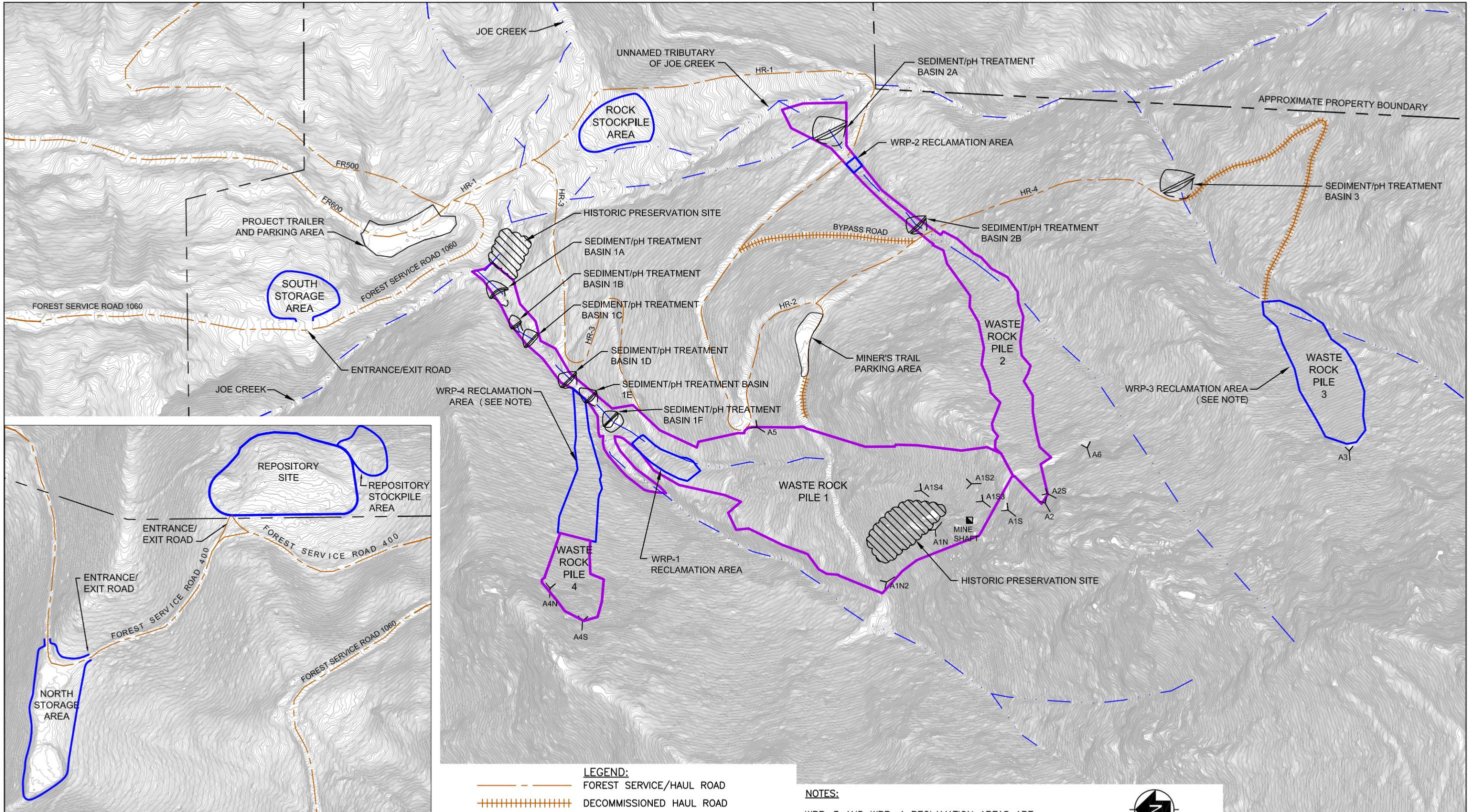
Signature of Inspector

September 30 and October 1, 2014

Date of Inspection

Enclosure 2. Overall Site Plan

FILE NAME: N:\Graphics\2010\2010-084 USFS Blueledge Mine\N_Maps and Drawings\Final Report\Overall Site Plan 2.dwg LAYOUT NAME: 2 PLOTTED: Tuesday, May 29, 2012 - 11:08am



- LEGEND:**
- FOREST SERVICE/HAUL ROAD
 - DECOMMISSIONED HAUL ROAD
 - PROPERTY BOUNDARY
 - RECLAMATION AREA
 - STREAM
 - WASTE ROCK BOUNDARY REMOVAL LIMIT
 - APPROXIMATE LOCATION OF ADIT
 - APPROXIMATE LOCATION OF MINE SHAFT

NOTES:
 WRP-3 AND WRP-4 RECLAMATION AREAS ARE ALSO THE WASTE ROCK BOUNDARY REMOVAL LIMITS.
 FR = FOREST SERVICE ROAD
 HR = HAUL ROAD

SOURCE: URS BLUE LEDGE MINE REMOVAL ACTION, DRAWING NO. 101, SHEET 7 OF 60, CAD FILE NO. 101, DATED: 2/2010.

Engineering/Remediation Resources Group, Inc. 4585 Pacheco Blvd, Suite 200 Martinez, California 94553 (925) 969-0750	CLIENT: USDA FOREST SERVICE	OVERALL SITE PLAN		
	LOCATION: BLUE LEDGE MINE REMOVAL ACTION	DRAWN BY: RDB 11/18/11	CHECKED BY: JGS 11/21/11	PROJECT NO. 2010-084

Enclosure 3. September 2014 Site Inspection Photographic Log



Photograph 1: Top of repository, facing south.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 2: South Storage area looking northeast.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 3: Sediment/pH Treatment Basin 1A.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 4: Sediment/pH Treatment Basin 1B.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 5: Sediment/pH Treatment Basin 1C.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 6: Sediment/pH Treatment Basin 1D.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 7: Sediment/pH Treatment Basin 1E.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 8: Sediment/pH Treatment Basin 1F. Full of sediment.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 9: Sediment/pH Treatment Basin 2A. No water in the basin.

Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA

Photographed by: Annica Nord (ERRG)

Date: September 30, 2014



Photograph 10: Sediment/pH Treatment Basin 2B. No water is in the basin.

Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA

Photographed by: Annica Nord (ERRG)

Date: September 30, 2014



Photograph 11: Sediment/pH Treatment Basin 3. No water in the basin.

Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: September 30, 2014



Photograph 12: North Storage Area, facing west.

Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 13: WRP-3 reclamation area.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: September 30, 2014

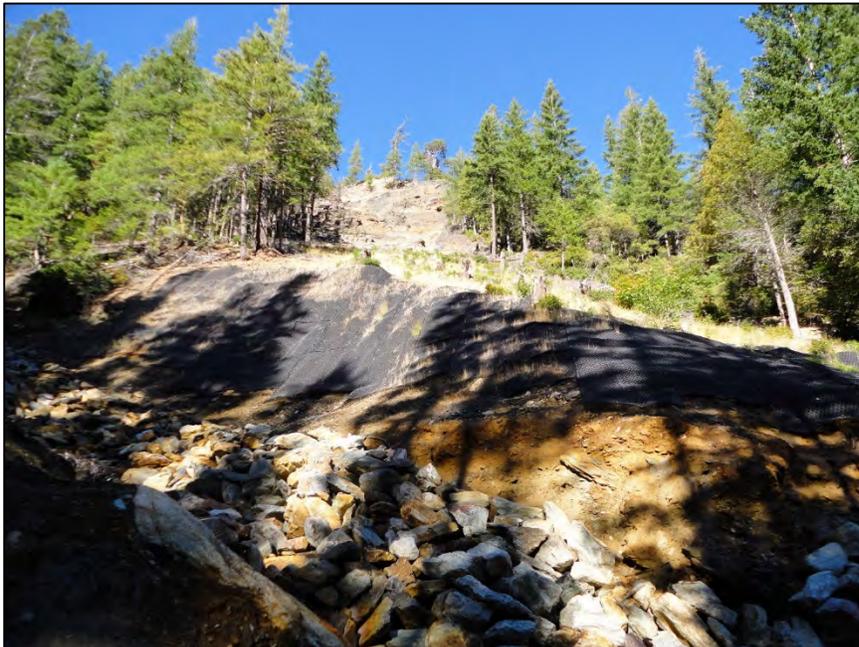


Photograph 14: View of repository, facing north.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014



Photograph 15: View of anchor trench drain.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG) Date: October 1, 2014



Photograph 16: View of WRP-4, facing north.
Blue Ledge Mine, Rogue River - Siskiyou National Forest, CA
Photographed by: Annica Nord (ERRG)

Date: October 1, 2014