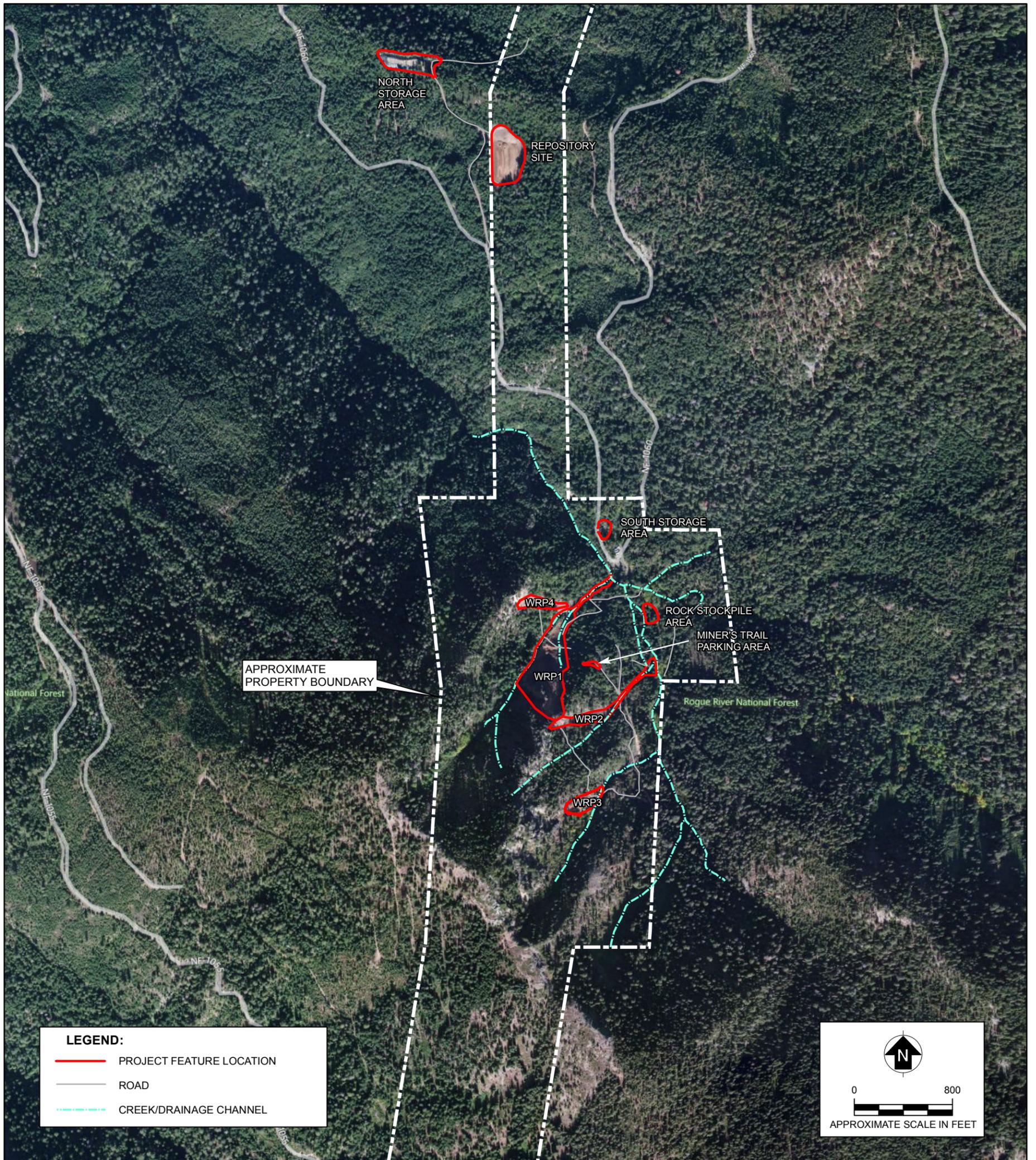


# Figures

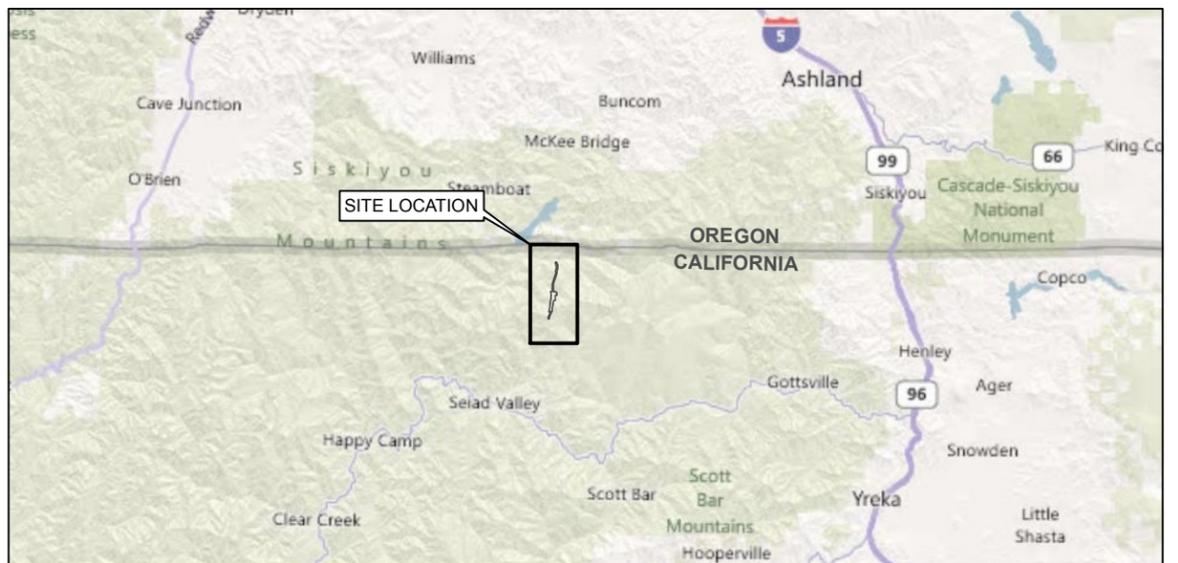
---



SOURCES: BING MAPS; URS CORPORATION



REGIONAL MAP



VICINITY MAP



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4585 Pacheco Blvd, Suite 200  
Martinez, California 94553  
(925) 969-0750

CLIENT:  
USDA FOREST SERVICE

LOCATION:  
BLUE LEDGE MINE  
BLUE LEDGE, CALIFORNIA

SITE LOCATION AND VICINITY MAP

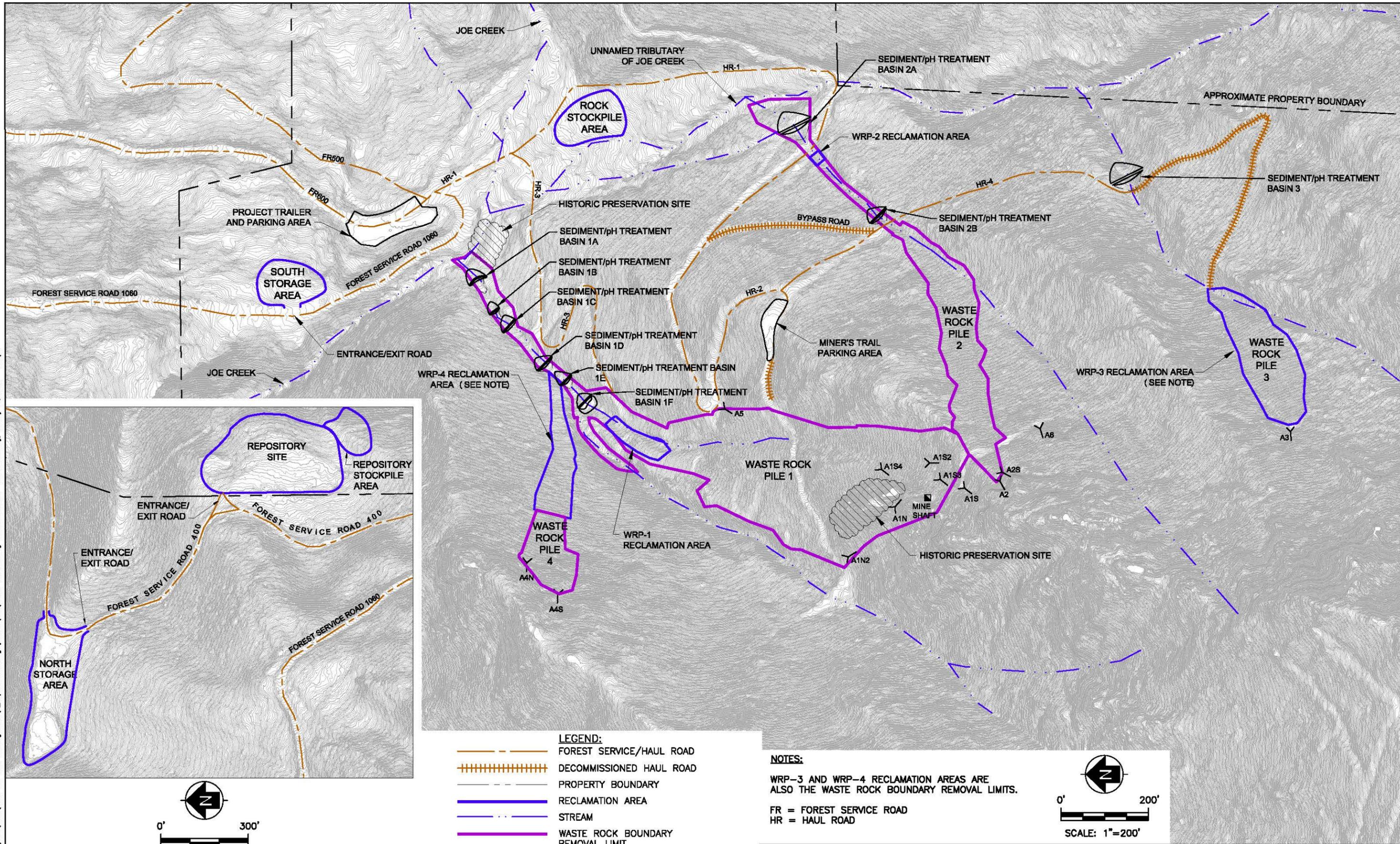
DRAWN BY:  
JJC 6/14/2010

CHECKED BY:  
MS 6/14/2010

PROJECT NO.  
2010-084

FIG NO.  
1

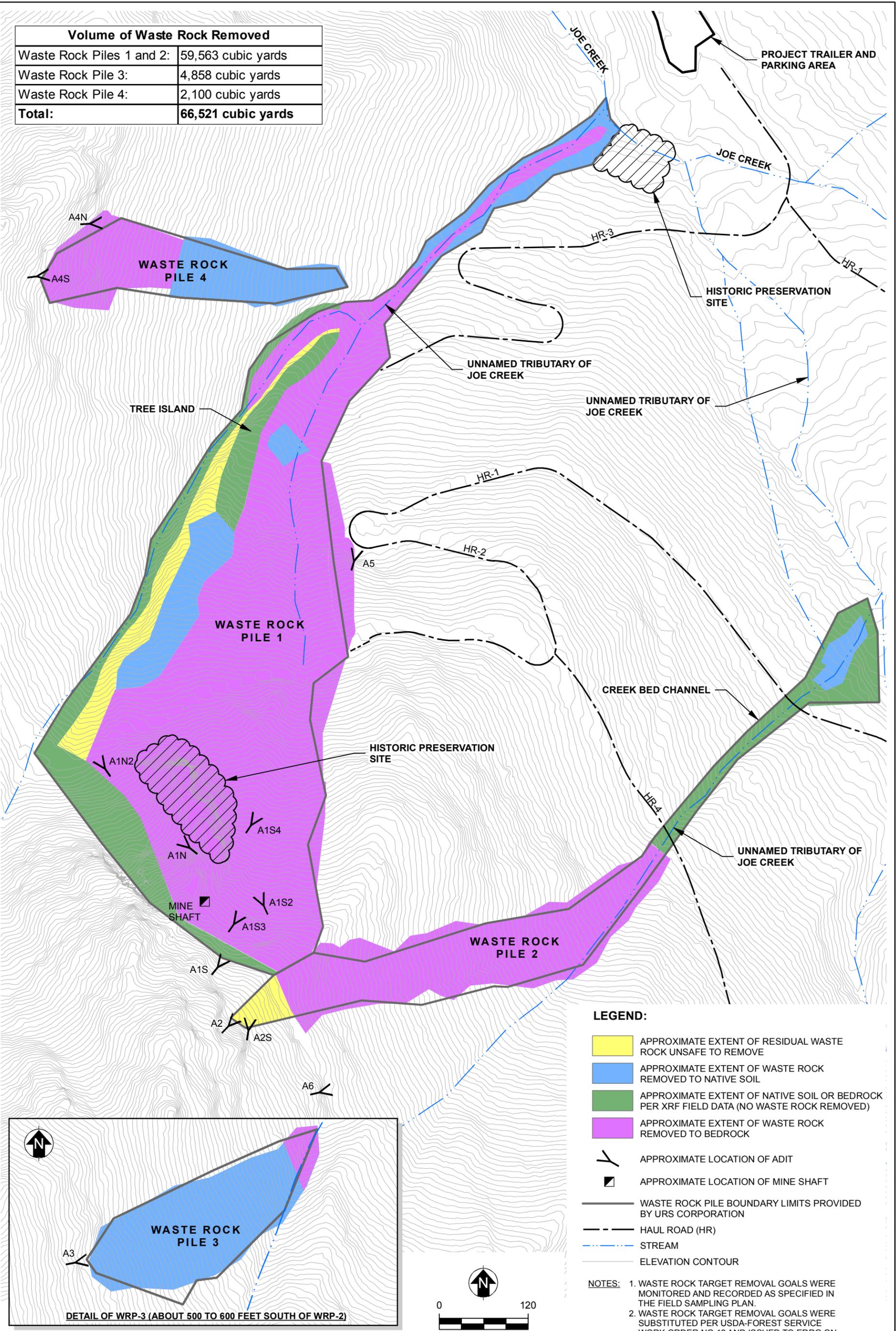
FILE NAME: N:\graphics\2010\084 USFS Blueledge Mine\Map and Drawings\Final Report\Overall Site Planning LAYOUT NAME: 1 PLOTTED: Friday, January 20, 2012 - 2:10pm



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

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

Volume of Waste Rock Removed	
Waste Rock Piles 1 and 2:	59,563 cubic yards
Waste Rock Pile 3:	4,858 cubic yards
Waste Rock Pile 4:	2,100 cubic yards
<b>Total:</b>	<b>66,521 cubic yards</b>

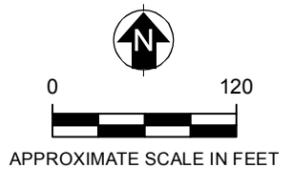
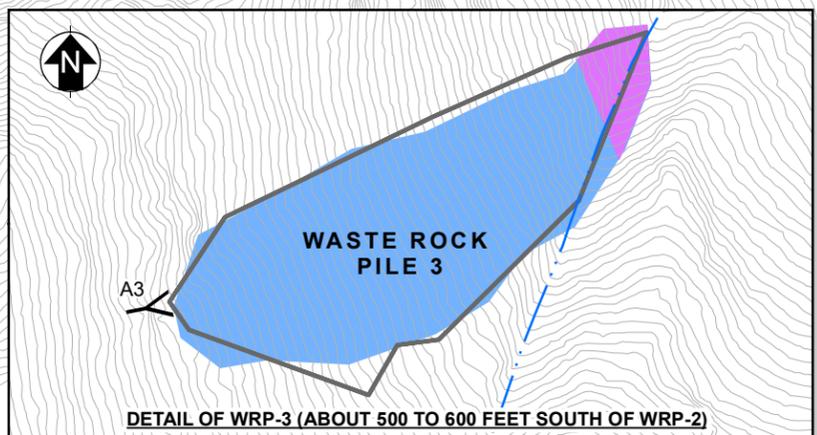


**LEGEND:**

- APPROXIMATE EXTENT OF RESIDUAL WASTE ROCK UNSAFE TO REMOVE
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO NATIVE SOIL
- APPROXIMATE EXTENT OF NATIVE SOIL OR BEDROCK PER XRF FIELD DATA (NO WASTE ROCK REMOVED)
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO BEDROCK
- APPROXIMATE LOCATION OF ADIT
- APPROXIMATE LOCATION OF MINE SHAFT
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- HAUL ROAD (HR)
- STREAM
- ELEVATION CONTOUR

**NOTES:**

1. WASTE ROCK TARGET REMOVAL GOALS WERE MONITORED AND RECORDED AS SPECIFIED IN THE FIELD SAMPLING PLAN.
2. WASTE ROCK TARGET REMOVAL GOALS WERE SUBSTITUTED PER USDA-FOREST SERVICE WORK ORDER NO.12 AND ISSUED TO ERRG ON 6-22-11.



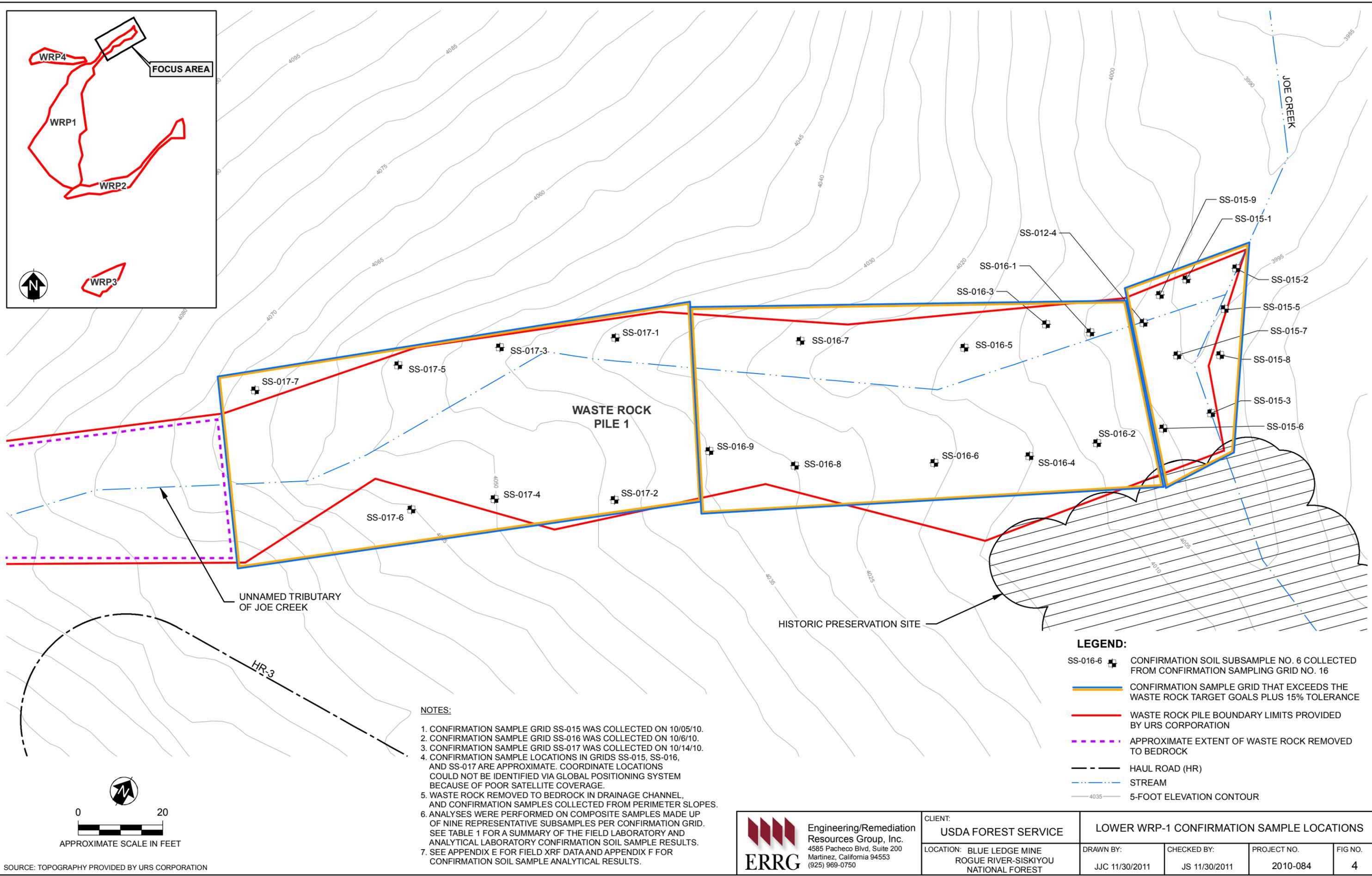
N:\graphics\2010\2010-084-USFS-Blueledge-Mine\2011-GIS\Removal-Extent\_2011.mxd Last updated: 1/23/2012 at 1:00:36 AM

SOURCE: TOPOGRAPHY PROVIDED BY URS CORPORATION

**ERRG** Engineering/Remediation Resources Group, Inc.  
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 Martinez, California 94553  
 (925) 969-0750

CLIENT: **USDA FOREST SERVICE**  
 LOCATION: BLUE LEDGE MINE  
 ROGUE RIVER-SISKIYOU NATIONAL FOREST

EXTENT OF WASTE ROCK REMOVAL			
DRAWN BY:	CHECKED BY:	PROJECT NO.	FIG NO.
JJC 11/09/2011	JS 11/09/2011	2010-084	3



N:\graphics\2010\10-08-4-USFS-Blueledge\_Mine\2011 GIS\Lower WRP1 Confirmation Samples.mxd. Last updated: 2/8/2012 at 4:12:03 PM

**NOTES:**

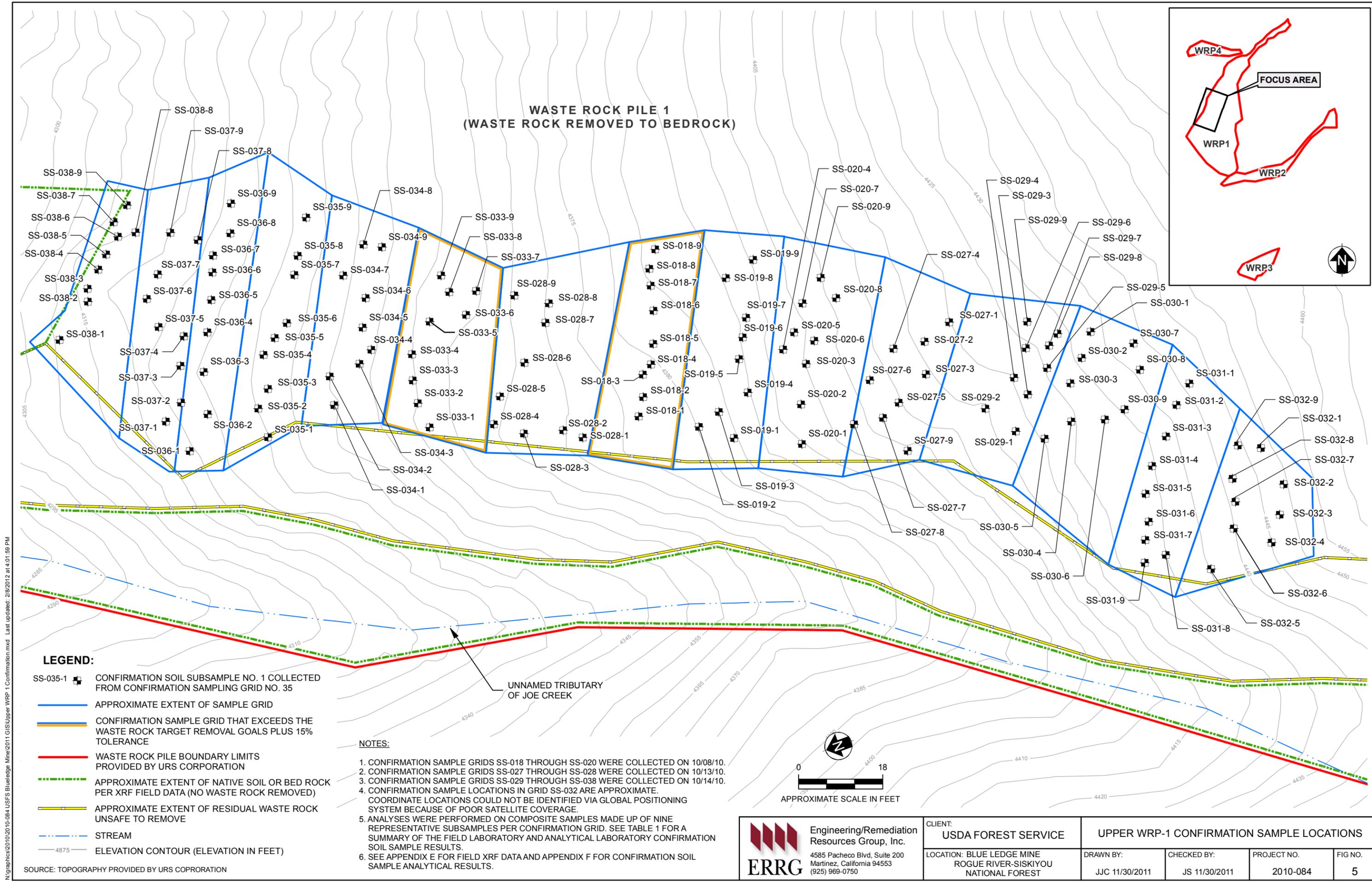
1. CONFIRMATION SAMPLE GRID SS-015 WAS COLLECTED ON 10/05/10.
2. CONFIRMATION SAMPLE GRID SS-016 WAS COLLECTED ON 10/6/10.
3. CONFIRMATION SAMPLE GRID SS-017 WAS COLLECTED ON 10/14/10.
4. CONFIRMATION SAMPLE LOCATIONS IN GRIDS SS-015, SS-016, AND SS-017 ARE APPROXIMATE. COORDINATE LOCATIONS COULD NOT BE IDENTIFIED VIA GLOBAL POSITIONING SYSTEM BECAUSE OF POOR SATELLITE COVERAGE.
5. WASTE ROCK REMOVED TO BEDROCK IN DRAINAGE CHANNEL, AND CONFIRMATION SAMPLES COLLECTED FROM PERIMETER SLOPES.
6. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 1 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
7. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

**LEGEND:**

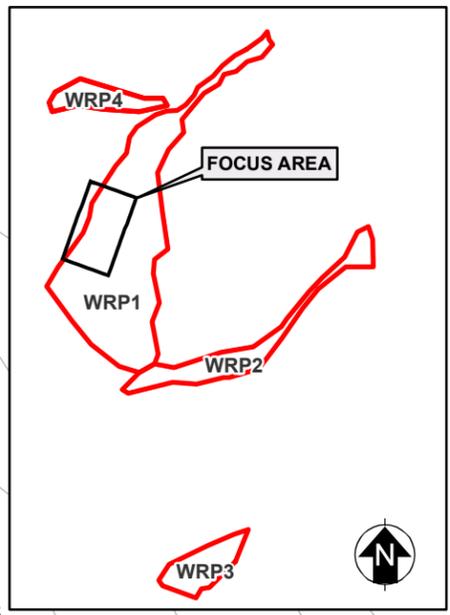
- SS-016-6 CONFIRMATION SOIL SUBSAMPLE NO. 6 COLLECTED FROM CONFIRMATION SAMPLING GRID NO. 16
- CONFIRMATION SAMPLE GRID THAT EXCEEDS THE WASTE ROCK TARGET GOALS PLUS 15% TOLERANCE
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO BEDROCK
- HAUL ROAD (HR)
- STREAM
- 5-FOOT ELEVATION CONTOUR

<b>Engineering/Remediation Resources Group, Inc.</b> 4585 Pacheco Blvd, Suite 200 Martinez, California 94553 (925) 969-0750	CLIENT: <b>USDA FOREST SERVICE</b>	<b>LOWER WRP-1 CONFIRMATION SAMPLE LOCATIONS</b>		
	LOCATION: BLUE LEDGE MINE ROGUE RIVER-SISKIYOU NATIONAL FOREST	DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084

SOURCE: TOPOGRAPHY PROVIDED BY URS CORPORATION



**WASTE ROCK PILE 1  
(WASTE ROCK REMOVED TO BEDROCK)**



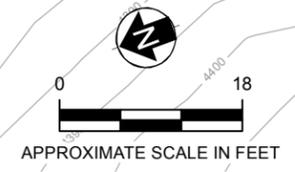
**LEGEND:**

- SS-035-1 CONFIRMATION SOIL SUBSAMPLE NO. 1 COLLECTED FROM CONFIRMATION SAMPLING GRID NO. 35
- APPROXIMATE EXTENT OF SAMPLE GRID
- CONFIRMATION SAMPLE GRID THAT EXCEEDS THE WASTE ROCK TARGET REMOVAL GOALS PLUS 15% TOLERANCE
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- APPROXIMATE EXTENT OF NATIVE SOIL OR BED ROCK PER XRF FIELD DATA (NO WASTE ROCK REMOVED)
- APPROXIMATE EXTENT OF RESIDUAL WASTE ROCK UNSAFE TO REMOVE
- STREAM
- ELEVATION CONTOUR (ELEVATION IN FEET)

**NOTES:**

1. CONFIRMATION SAMPLE GRIDS SS-018 THROUGH SS-020 WERE COLLECTED ON 10/08/10.
2. CONFIRMATION SAMPLE GRIDS SS-027 THROUGH SS-028 WERE COLLECTED ON 10/13/10.
3. CONFIRMATION SAMPLE GRIDS SS-029 THROUGH SS-038 WERE COLLECTED ON 10/14/10.
4. CONFIRMATION SAMPLE LOCATIONS IN GRID SS-032 ARE APPROXIMATE. COORDINATE LOCATIONS COULD NOT BE IDENTIFIED VIA GLOBAL POSITIONING SYSTEM BECAUSE OF POOR SATELLITE COVERAGE.
5. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 1 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
6. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

SOURCE: TOPOGRAPHY PROVIDED BY URS CORPORATION

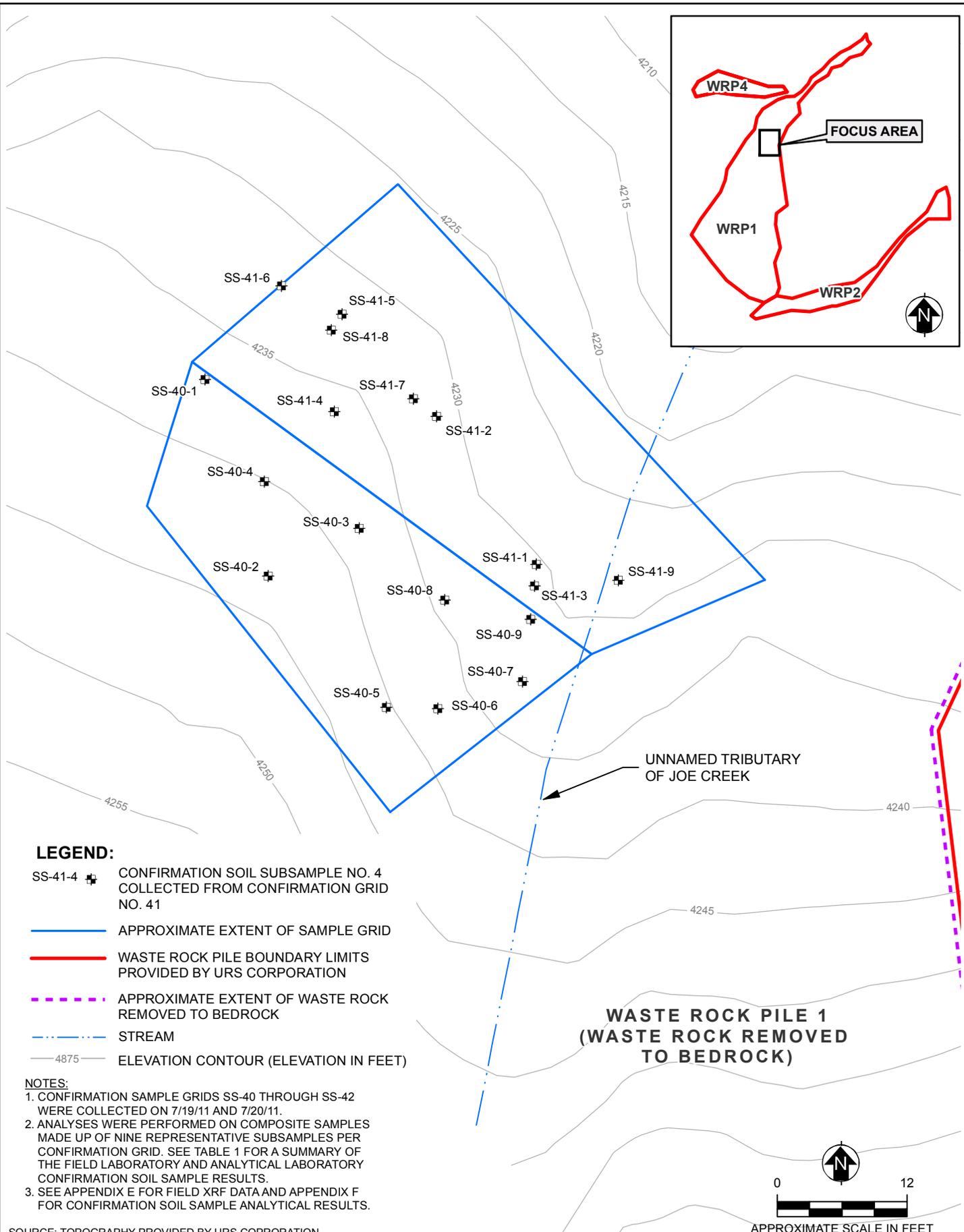
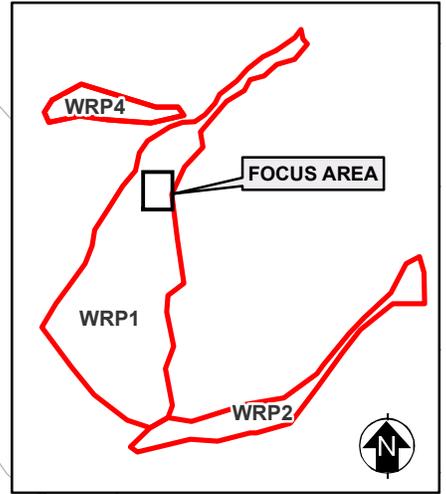


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Martinez, California 94553  
(925) 969-0750

CLIENT: <b>USDA FOREST SERVICE</b>		UPPER WRP-1 CONFIRMATION SAMPLE LOCATIONS			
LOCATION: BLUE LEDGE MINE ROGUE RIVER-SISKIYOU NATIONAL FOREST		DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084	FIG NO. 5

N:\graphics\2010\2010-084-USFS-Blueledge\_Mine\2011 GIS\Upper WRP 1 Confirmation.mxd Last updated: 2/8/2012 at 4:01:59 PM

N:\graphics\2010\10-084\_USFS\_Blueledge\_Mine\2011\_GIS\Middle\_WRP\_1\_Confirmation\_Samples.mxd Last updated: 2/6/2012 at 12:10:11 PM



**LEGEND:**

- SS-41-4 CONFIRMATION SOIL SUBSAMPLE NO. 4 COLLECTED FROM CONFIRMATION GRID NO. 41
- APPROXIMATE EXTENT OF SAMPLE GRID
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO BEDROCK
- STREAM
- ELEVATION CONTOUR (ELEVATION IN FEET)

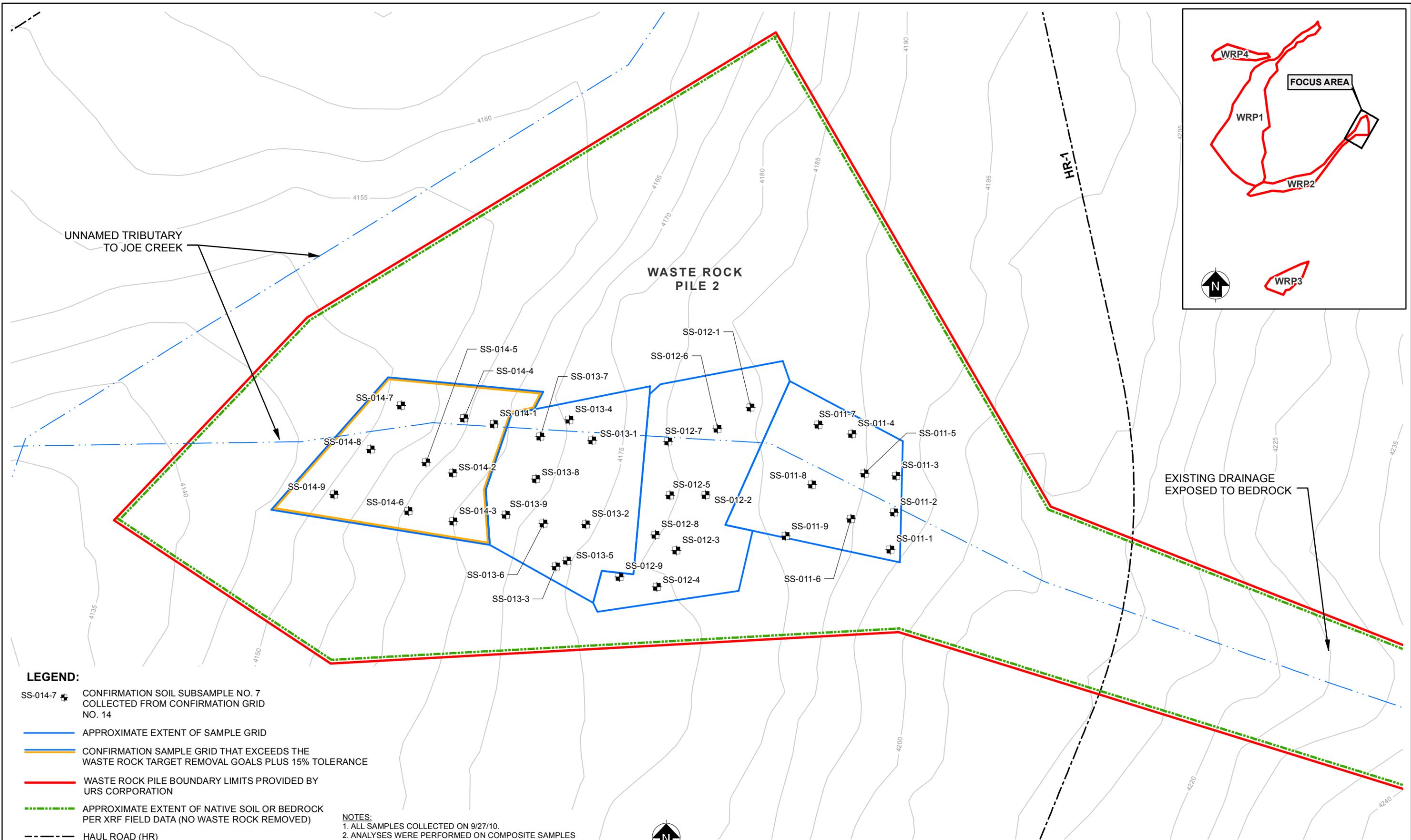
**NOTES:**

1. CONFIRMATION SAMPLE GRIDS SS-40 THROUGH SS-42 WERE COLLECTED ON 7/19/11 AND 7/20/11.
2. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 1 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
3. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

SOURCE: TOPOGRAPHY PROVIDED BY URS COPORATION

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	<p>LOCATION: BLUE LEDGE MINE ROGUE RIVER-SISKIYOU NATIONAL FOREST</p>	<p>DRAWN BY: JJC 11/30/2011</p>	<p>CHECKED BY: JS 11/30/2011</p>	<p>PROJECT NO. 2010-084</p>	<p>FIG NO. 6</p>

N:\graphics\2010\10\04\04-USFS Blueledge Mine\2011 GIS\Lower WRP 2 Confirmation Samples.mxd Last updated: 2/9/2012 at 4:08:06 PM

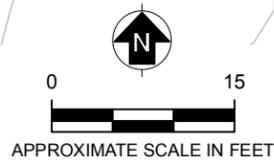


**LEGEND:**

- SS-014-7 CONFIRMATION SOIL SUBSAMPLE NO. 7 COLLECTED FROM CONFIRMATION GRID NO. 14
- APPROXIMATE EXTENT OF SAMPLE GRID
- CONFIRMATION SAMPLE GRID THAT EXCEEDS THE WASTE ROCK TARGET REMOVAL GOALS PLUS 15% TOLERANCE
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- APPROXIMATE EXTENT OF NATIVE SOIL OR BEDROCK PER XRF FIELD DATA (NO WASTE ROCK REMOVED)
- HAUL ROAD (HR)
- STREAM
- ELEVATION CONTOUR (ELEVATION IN FEET)

**NOTES:**

1. ALL SAMPLES COLLECTED ON 9/27/10.
2. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 2 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
3. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

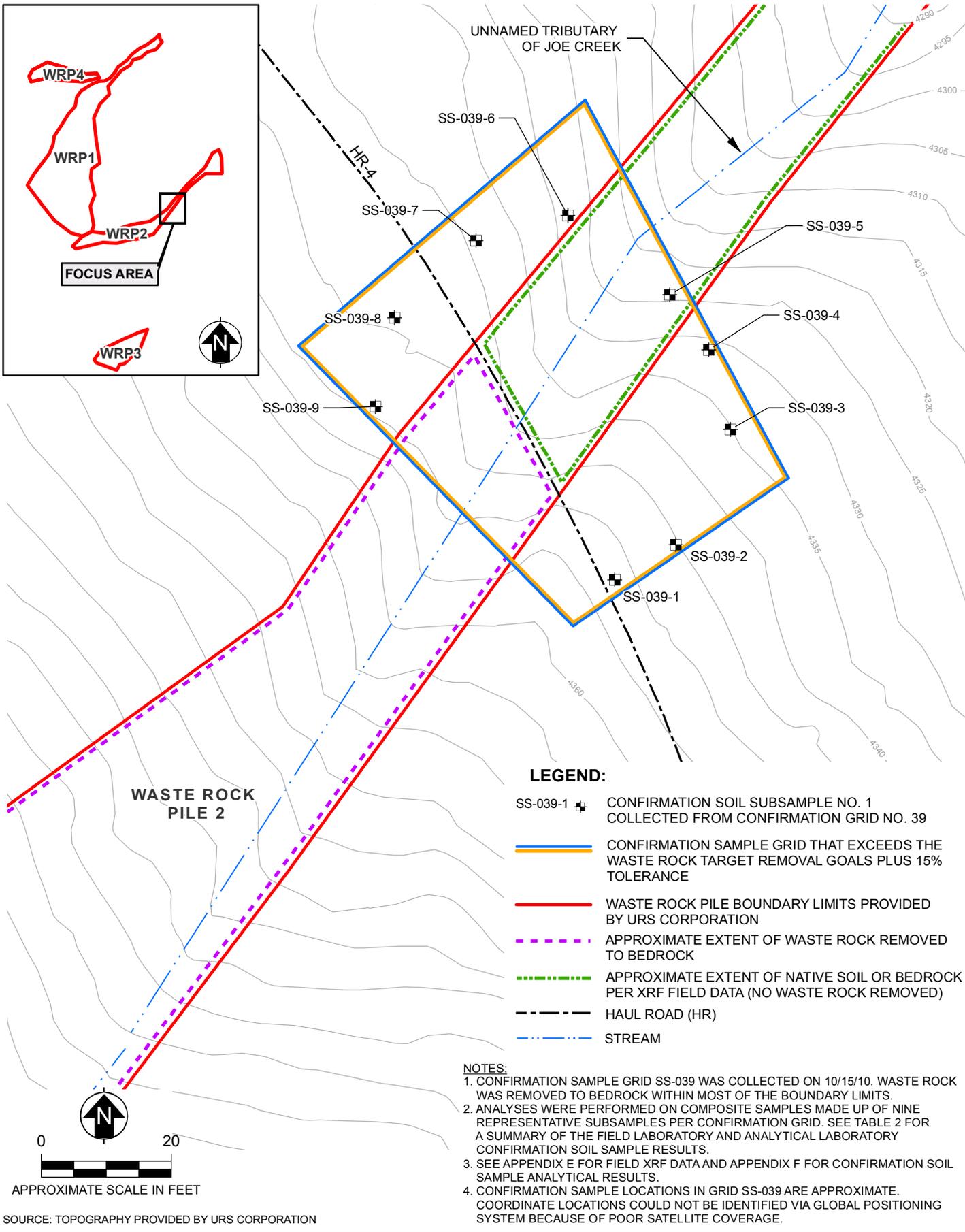


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CLIENT: **USDA FOREST SERVICE**  
 LOCATION: BLUE LEDGE MINE  
 ROGUE RIVER-SISKIYOU  
 NATIONAL FOREST

LOWER WRP-2 CONFIRMATION SAMPLE LOCATIONS			
DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084	FIG NO. 7

SOURCE: TOPOGRAPHY PROVIDED BY URS CORPORATION



N:\graphics\2010\102010-084\_USFS\_Blueledge\_Mine\2011\_GIS\Upper\_WRP2\_Confirmation\_Samples.mxd



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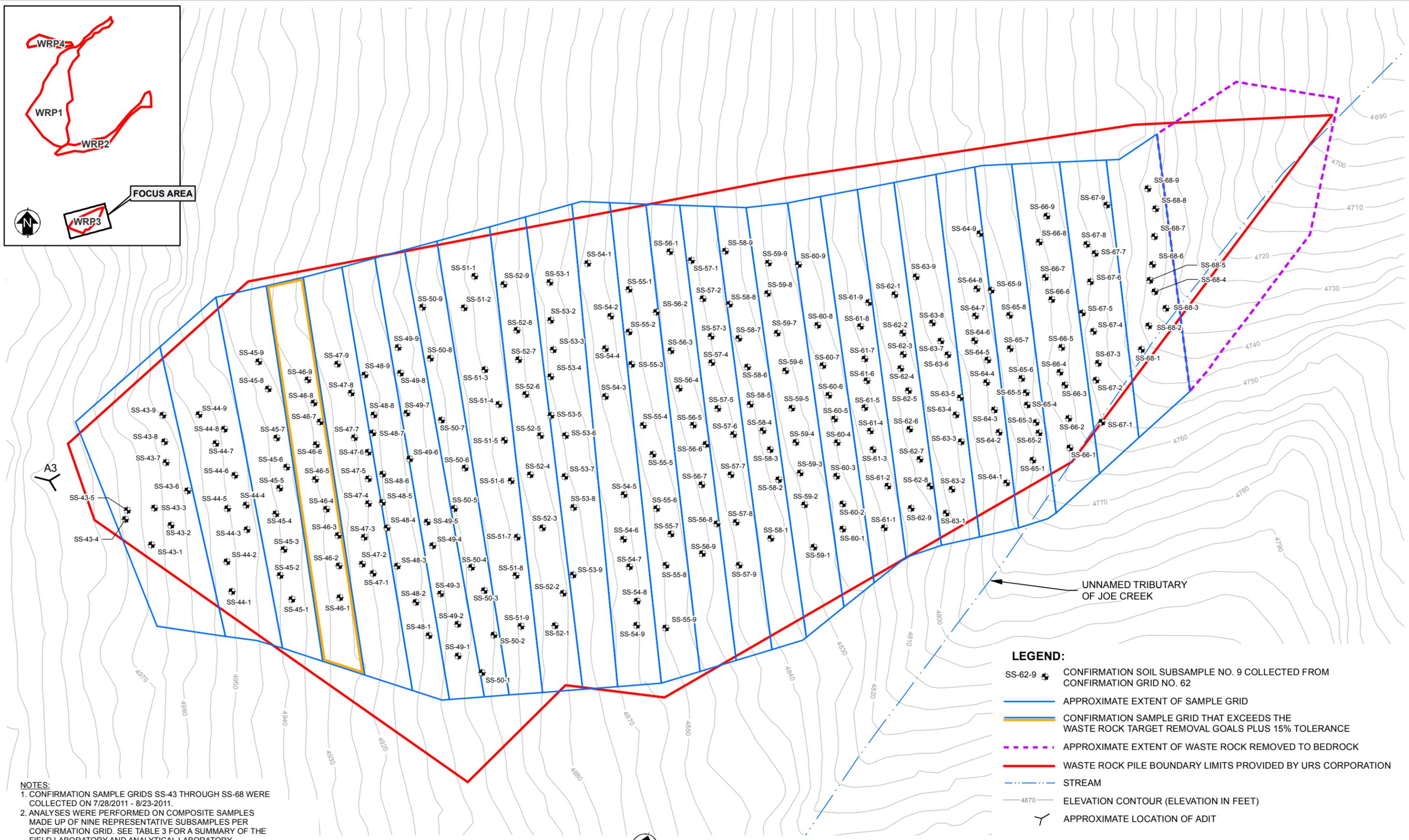
CLIENT:  
**USDA FOREST SERVICE**

LOCATION: BLUE LEDGE MINE  
 ROGUE RIVER-SISKIYOU  
 NATIONAL FOREST

**UPPER WRP-2 CONFIRMATION SAMPLE LOCATIONS**

DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084	FIG NO. 8
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N:\graphics\2010\2010-084\_USFS\_Blueledge\_Mine\2011\_GIS\WRP 3 Confirmation\_Samples.mxd Last updated: 2/8/2012 at 4:13:01 PM



FOCUS AREA



A3

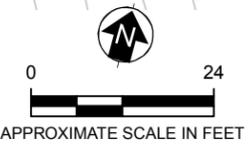
UNNAMED TRIBUTARY OF JOE CREEK

**LEGEND:**

- SS-62-9 CONFIRMATION SOIL SUBSAMPLE NO. 9 COLLECTED FROM CONFIRMATION GRID NO. 62
- APPROXIMATE EXTENT OF SAMPLE GRID
- CONFIRMATION SAMPLE GRID THAT EXCEEDS THE WASTE ROCK TARGET REMOVAL GOALS PLUS 15% TOLERANCE
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO BEDROCK
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- STREAM
- ELEVATION CONTOUR (ELEVATION IN FEET)
- APPROXIMATE LOCATION OF ADIT

- NOTES:**
1. CONFIRMATION SAMPLE GRIDS SS-43 THROUGH SS-68 WERE COLLECTED ON 7/28/2011 - 8/23/2011.
  2. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 3 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
  3. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

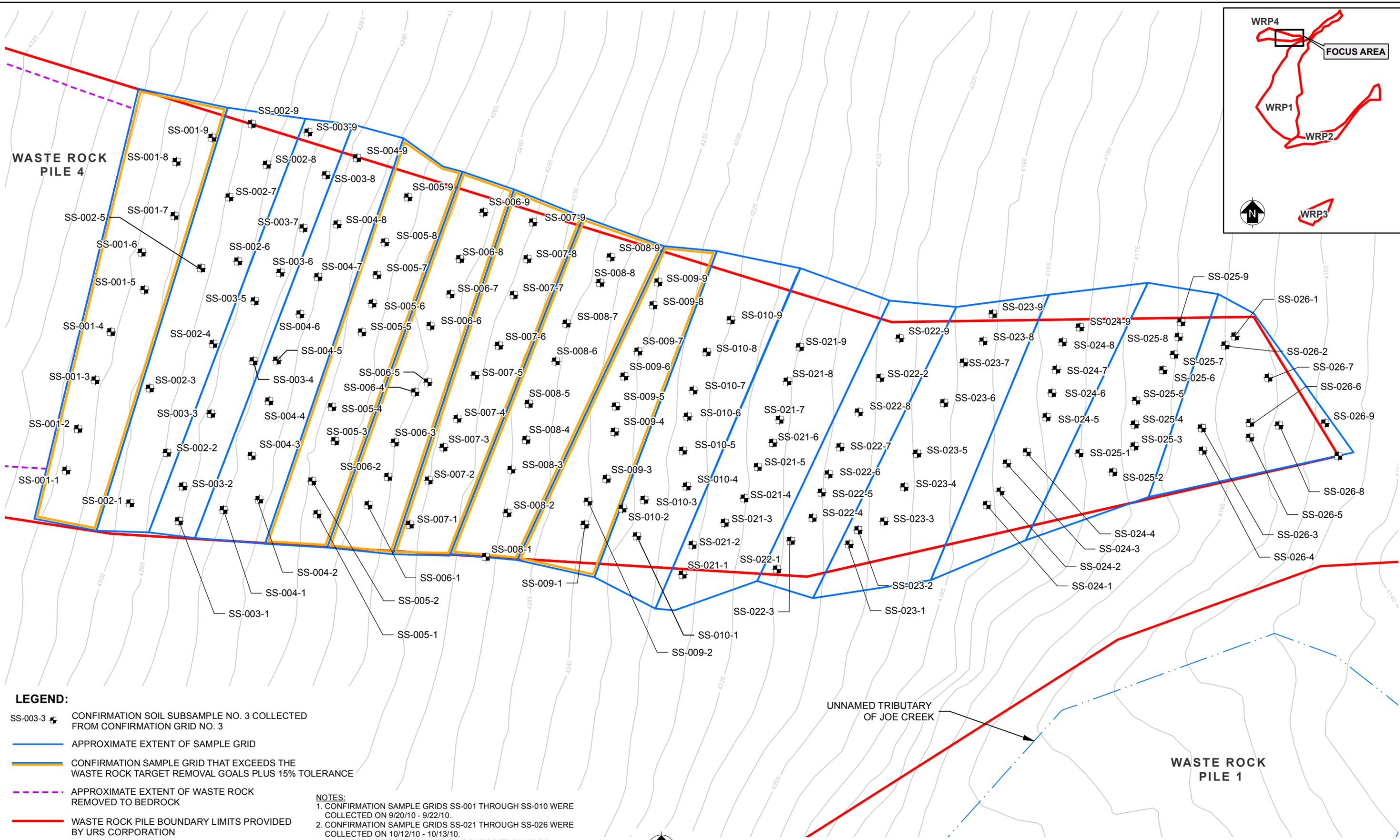
SOURCES: TOPOGRAPHY PROVIDED BY URS CORPORATION



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 (925) 969-0750

CLIENT: <b>USDA FOREST SERVICE</b>		<b>WRP-3 CONFIRMATION SAMPLE LOCATIONS</b>			
LOCATION: BLUE LEDGE MINE ROGUE RIVER-SISKIYOU NATIONAL FOREST	DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084	FIG NO. 9	

N:\graphics\2010\2010-084-USFS-BlueEdge\_Mine\2011 GIS\WRP-4 Confirmation Samples.mxd Last updated: 2/8/2012 at 3:50:57 PM



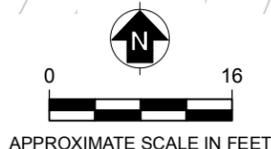
**LEGEND:**

- SS-003-3 CONFIRMATION SOIL SUBSAMPLE NO. 3 COLLECTED FROM CONFIRMATION GRID NO. 3
- APPROXIMATE EXTENT OF SAMPLE GRID
- CONFIRMATION SAMPLE GRID THAT EXCEEDS THE WASTE ROCK TARGET REMOVAL GOALS PLUS 15% TOLERANCE
- APPROXIMATE EXTENT OF WASTE ROCK REMOVED TO BEDROCK
- WASTE ROCK PILE BOUNDARY LIMITS PROVIDED BY URS CORPORATION
- STREAM
- ELEVATION CONTOUR (ELEVATION IN FEET)

**NOTES:**

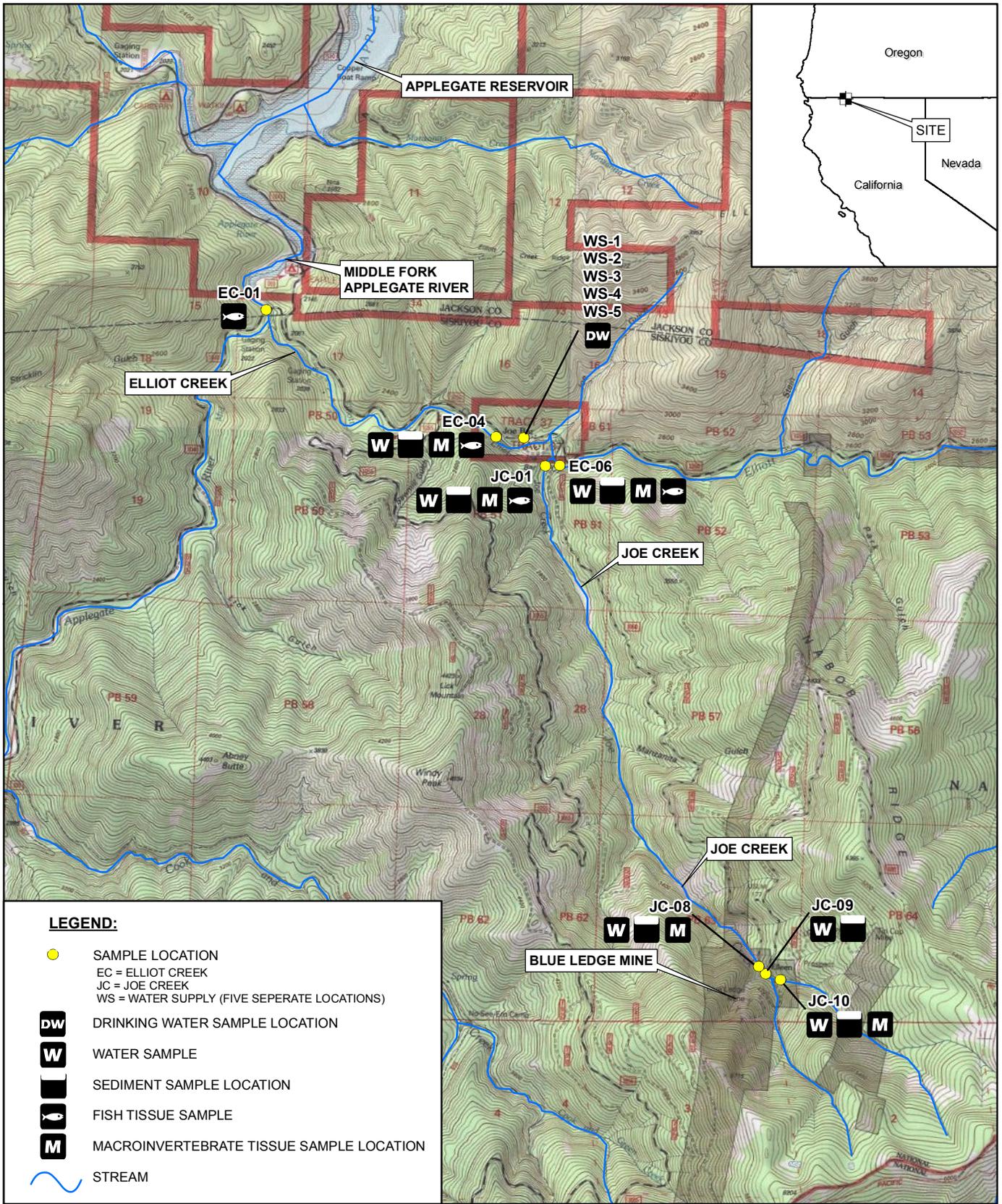
1. CONFIRMATION SAMPLE GRIDS SS-001 THROUGH SS-010 WERE COLLECTED ON 9/20/10 - 9/22/10.
2. CONFIRMATION SAMPLE GRIDS SS-021 THROUGH SS-026 WERE COLLECTED ON 10/12/10 - 10/13/10.
3. ANALYSES WERE PERFORMED ON COMPOSITE SAMPLES MADE UP OF NINE REPRESENTATIVE SUBSAMPLES PER CONFIRMATION GRID. SEE TABLE 4 FOR A SUMMARY OF THE FIELD LABORATORY AND ANALYTICAL LABORATORY CONFIRMATION SOIL SAMPLE RESULTS.
4. SEE APPENDIX E FOR FIELD XRF DATA AND APPENDIX F FOR CONFIRMATION SOIL SAMPLE ANALYTICAL RESULTS.

SOURCE: TOPOGRAPHY PROVIDED BY URS COPORATION



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CLIENT: <b>USDA FOREST SERVICE</b>		<b>WRP-4 CONFIRMATION SAMPLE LOCATIONS</b>			
LOCATION: BLUE LEDGE MINE ROGUE RIVER-SISKIYOU NATIONAL FOREST		DRAWN BY: JJC 11/30/2011	CHECKED BY: JS 11/30/2011	PROJECT NO. 2010-084	FIG. NO. 10



**LEGEND:**

- SAMPLE LOCATION
- EC = ELLIOT CREEK
- JC = JOE CREEK
- WS = WATER SUPPLY (FIVE SEPERATE LOCATIONS)
- DW** DRINKING WATER SAMPLE LOCATION
- W** WATER SAMPLE
- S** SEDIMENT SAMPLE LOCATION
- F** FISH TISSUE SAMPLE
- M** MACROINVERTEBRATE TISSUE SAMPLE LOCATION
- STREAM

SOURCE: "PROPOSED SAMPLING LOCATIONS", URS CORPORATION, 2010  
 DUTCH CREEK, CALIFORNIA USGS 7.5' TOPO QUAD, 1981  
 KANGAROO MOUNTAIN, CALIFORNIA USGS 7.5' TOPO QUAD, 1981  
 SQUAW LAKES, OREGON USGS 7.5' TPOQ QUAD, 1983  
 CARBERRY CREEK, OREGON USGS 7.5' TOPO QUAD, 1983

0 3,600



SCALE: 1" = 3,600'



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 Martinez, California 94553  
 (925) 969-0750

CLIENT:  
**USDA FOREST SERVICE**

LOCATION: BLUE LEDGE MINE  
 ROGUE RIVER-SISKIYOU  
 NATIONAL FOREST

**SAMPLING LOCATIONS**

DRAWN BY: JJC 1/17/2012	CHECKED BY: JS 1/17/2012	PROJECT NO. 2010-084	FIG NO. 11
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