

TABLE 3-1

Environmental Samples Collected During the Lava Cap Mine RI Field Program (October 1999 through September 2000)

Lava Cap Mine, Nevada County California

Location	Surface Soil	Subsurface Soil	Air	Groundwater	Mine Discharge	Surface Water	Sediment	Fish	Aquatic Plant
<b>Round 1 (October/November 1999)</b>									
<b>REFERENCE</b>									
Upgradient of mine	6	9	1	2			3		
Clipper Creek upstream of Little Clipper Creek	3					3	3		
Little Greenhorn Creek									
<b>SOURCE AREA</b>									
Within waste rock/tailings area	6	18	1	5					
Within mine buildings	6		2			2			
Mine discharge adit and seep					1		1		
Base of log dam						1	1		
<b>MINE AREA</b>									
Around mine buildings (biased to areas of runoff)	6								
Around mine buildings (randomly located)	6								
Outside waste rock area, some near bunkers	10						1		
Residences near mine	6		1	3					
<b>DOWNGRADIENT</b>									
Little Clipper Creek below dam but above Clipper Creek	5			5		5	5		
	6								
Tailings deposition area (+ 20 screening level)		13	2	2					
Clipper Creek through tailings deposition area						3	3		
Tailings deposition area pools						1	5		
	24								
Residences near Lost Lake (+ 40 screening level)				12					
Lost Lake			1			3	6		
Clipper Creek below Lost Lake						3	3		
<b>Number of Environmental Sample Locations - Round 1</b>	<b>84</b>	<b>40</b>	<b>8</b>	<b>29</b>	<b>1</b>	<b>21</b>	<b>31</b>	<b>0</b>	<b>0</b>
	<b>plus 60 screening</b>								
<b>Round 2 (January 2000)</b>									
<b>REFERENCE</b>									
Upgradient of mine	2			1		3			
Clipper Creek upstream of Little Clipper Creek						3			
Little Greenhorn Creek									
<b>SOURCE AREA</b>									
Within waste rock/tailings area				3					
Within mine buildings						2			

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<b>Location</b>	<b>Surface Soil</b>	<b>Subsurface Soil</b>	<b>Air</b>	<b>Groundwater</b>	<b>Mine Discharge</b>	<b>Surface Water</b>	<b>Sediment</b>	<b>Fish</b>	<b>Aquatic Plant</b>
Mine discharge adit and seep					2		1		
Base of log dam						1			
<b><u>MINE AREA</u></b>									
Around mine buildings (biased to areas of runoff)									
Around mine buildings (randomly located)									
Outside waste rock area, some near bunkers	5					1			
Residences near mine				1					
<b><u>DOWNGRADIENT</u></b>									
Little Clipper Creek below dam but above Clipper Creek						5			
Tailings deposition area	5								
Clipper Creek through tailings deposition area						3			
Tailings deposition area pools						5			
Residences near Lost Lake	4								
Lost Lake						3			
Clipper Creek below Lost Lake						3			
Little Greenhorn Creek below confluence with Clipper Creek							1		
<b>Number of Environmental Sample Locations - Round 2</b>	<b>16</b>	<b>0</b>	<b>0</b>	<b>5</b>	<b>2</b>	<b>29</b>	<b>2</b>	<b>0</b>	<b>0</b>

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<b>Location</b>	<b>Surface Soil</b>	<b>Subsurface Soil</b>	<b>Air</b>	<b>Groundwater</b>	<b>Mine Discharge</b>	<b>Surface Water</b>	<b>Sediment</b>	<b>Fish</b>	<b>Aquatic Plant</b>
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Lava Cap Mine, Nevada County California

Location	Surface Soil	Subsurface Soil	Air	Groundwater	Mine Discharge	Surface Water	Sediment	Fish	Aquatic Plant
<b>Round 3 (April 2000)</b>									
<b><u>REFERENCE</u></b>									
Upgradient of mine	5			1		3	3		
Clipper Creek upstream of Little Clipper Creek	3					3	3		
Little Greenhorn Creek						1	1	2	
<b><u>SOURCE AREA</u></b>									
Within waste rock/tailings area		3	1	4					
Within mine buildings	1		1			1			
Mine discharge adit and seep					2		1		
Base of log dam						1			
<b><u>MINE AREA</u></b>									
Around mine buildings (biased to areas of runoff)									
Around mine buildings (randomly located)									
Outside waste rock area, some near bunkers	1					1			
Residences near mine			1	2					
<b><u>DOWNGRADIENT</u></b>									
Little Clipper Creek below dam but above Clipper Creek	2			6		5		3	
Tailings deposition area	3	5	2	2					
Clipper Creek through tailings deposition area						3	1		
Tailings deposition area pools						1			
Residences near Lost Lake				12					
Lost Lake								5-whole body, 4-	
Clipper Creek below Lost Lake						3	6	filet	
Clipper Creek below Lost Lake	2					3	1	3	
Little Greenhorn Creek below confluence with Clipper Creek						1			
<b>Number of Environmental Sample Locations - Round 3</b>	<b>17</b>	<b>8</b>	<b>5</b>	<b>27</b>	<b>2</b>	<b>26</b>	<b>16</b>	<b>17</b>	<b>0</b>
<b>Monthly Sampling ( November and December 1999; February, March, June, July, and</b>									
<b><u>SOURCE AREA</u></b>									
Mine discharge adit and seep						2			
Base of log dam									
<b>Number of Environmental Sample Locations - per Monthly Event</b>		<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>3</b>	<b>0</b>	<b>0</b>	<b>0</b>

	Surface Water Bioassay				Sediment Bioassay			Soil Bioassay	
	Terrestrial Plant	Terrestrial Invertebrate	Small Mammal/ Bullfrogs	Fathead Minnow test	Ceriodaphnia test	Hyaella Test	Earthworm Test	Nutsedge Test	
Aquatic Invertebrate	0	0	0	0	0	0	0	0	

	Surface Water Bioassay				Sediment Bioassay			Soil Bioassay		
	Terrestrial Plant	Terrestrial Invertebrate	Small Mammal/ Bullfrogs	Fathead Minnow test	Ceriodaphnia test	Hyaella Test	Earthworm Test	Nutsedge Test		
Aquatic Invertebrate	0	0	0	0	0	0	0	0	0	0

		Surface Water Bioassay			Sediment Bioassay			Soil Bioassay		
Aquatic Invertebrate	Terrestrial Plant	Terrestrial Invertebrate	Small Mammal/ Bullfrogs	Fathead Minnow test	Ceriodaphnia test	Hyaella Test	Earthworm Test	Nutledge Test		

