54 km SW of Provo, Utah, United States 17 Aug 1993

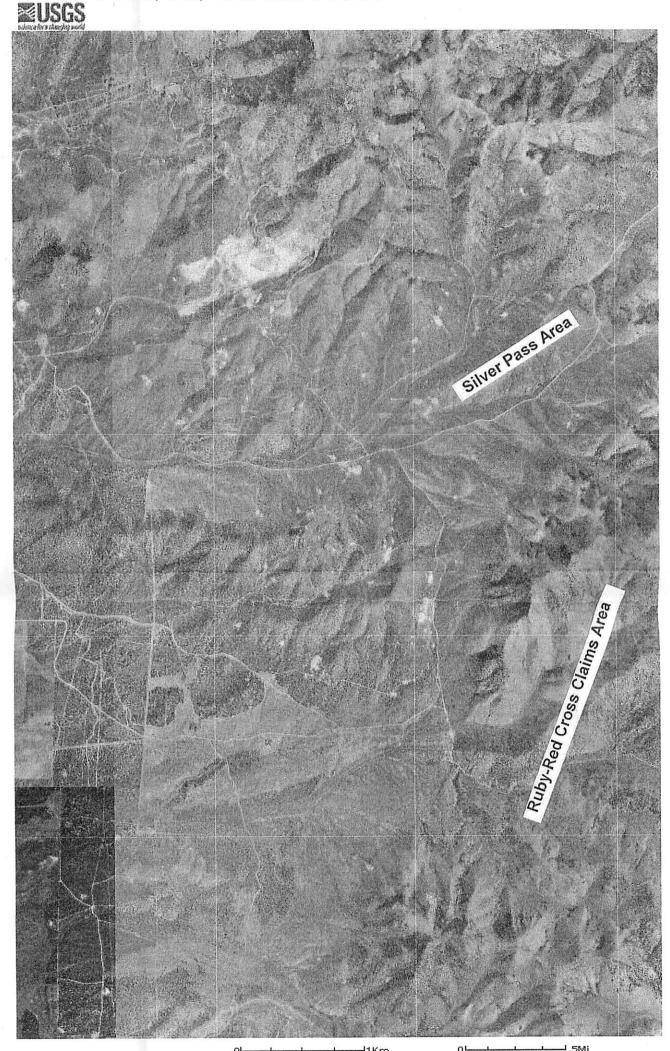


Image courtesy of the US Geological Survey.

47 km SW of Provo, Utah, United States 17 Aug 1993 **USGS** 

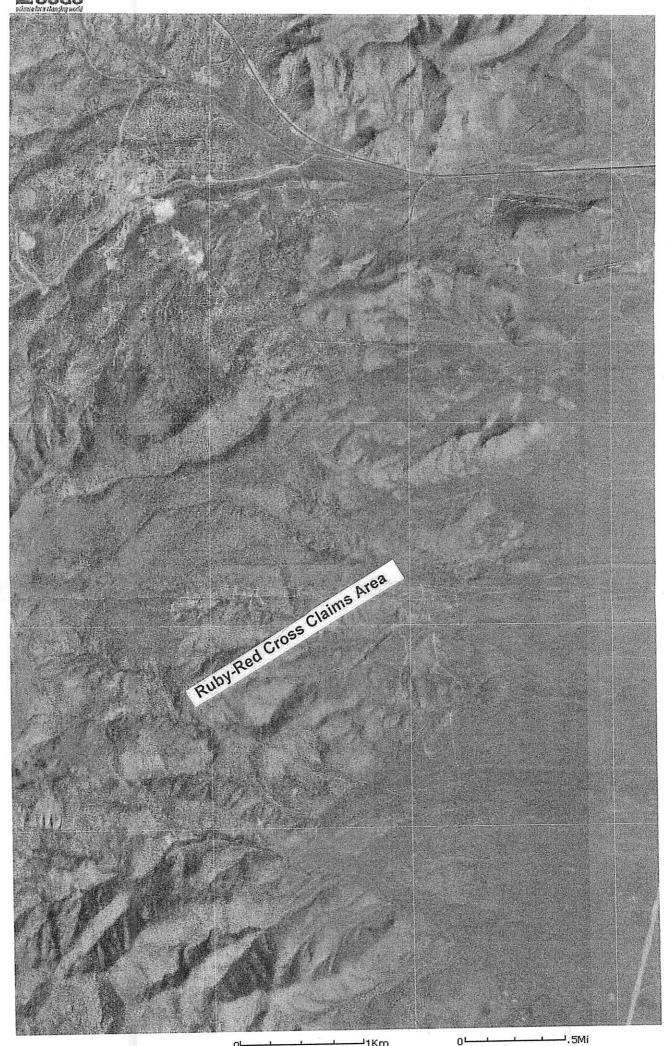


Image courtesy of the US Geological Survey.

# APPENDIX C

Inspection Checklist

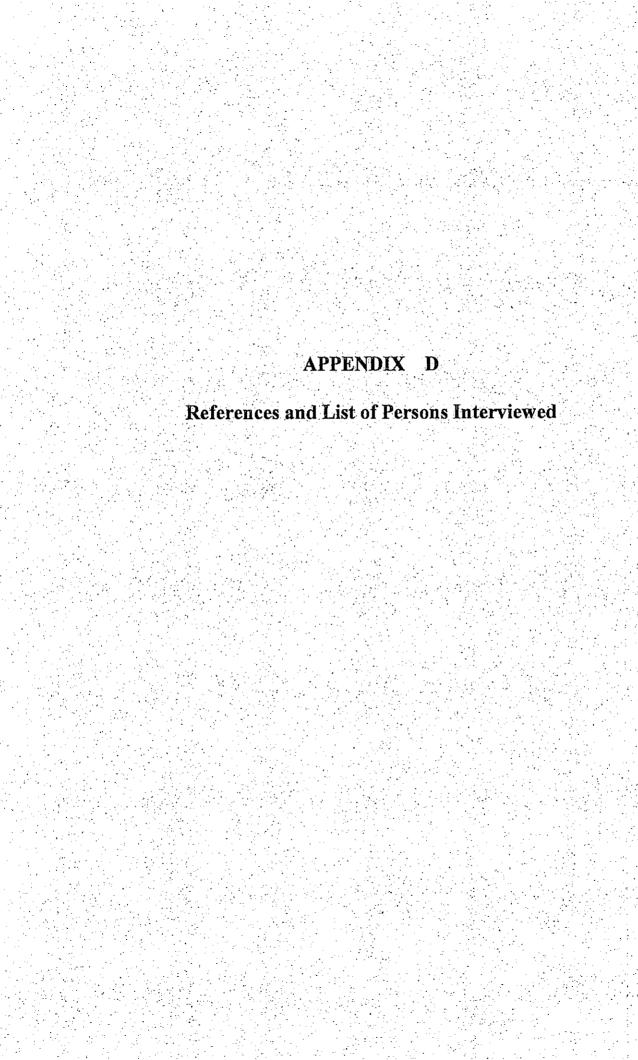
# Granite Environmental, Inc. Site Inspection Checklist - Phase I Site Assessment - (This form is to be attached to and made part of the Phase I site assessment report)

Job # 1326-002 Property Name and Address: 4,900 Acres of Mining Claims Tintic Mining District Eureka, Utah	See Details in Report Section	Yes	No
Above-ground storage tanks or tanks related to emergency generators, elevators, boilers			x
Evidence of underground storage tanks     (e.g., pumps, vent pipes, fill caps, patched asphalt or concrete)			x
3. Noxious odors			x
4. Stained soil, asphalt, or concrete			х
5. Stressed or dead vegetation			x
6. Pits, ponds, lagoons, or other standing surface water			x
7. Evidence of fill material or solid waste disposal on-site including manure stockpiles or other farm waste piles	1.1 & 6.1	x	
8. Empty drums or chemical storage containers			х
9. Suspect PCB containing equipment (e.g. transformers, hydraulic lifts, elevators)			x
10. Wells (e.g. active water, monitoring, injection or dry)	3.4	X	
11. Roads or paths with no apparent outlet			x
12. Floor drains not connected to a municipal sewer system			x
13. Sumps containing liquid or subsurface vault			x
14. Chemical storage			x
15. Stained floors			x
16. Wastewater, septic systems, cesspools or drainfields			<b>x</b> ,
17. Groundwater contamination			x
18. Industrial or manufacturing activity			х
19. Other (radon)		<u> </u>	х

Inspector - Jerry M. Crawford

Date:

November 8, 2001



### References

### Governmental and/or other Reference Materials

R.L. Polk Street Directories, none

Sanborn Fire Insurance Maps, none

U.S. Department of Agriculture, Soil Conservation Service, none

U.S. Geological Survey, 1992 and 1993, Allens Ranch, Eureka and Tintic Junction, Utah, 7.5-Minute Series, 1:24,000-Scale Topographic Maps.

United States Geological Survey (U.S.G.S.), Aerial Photos were reviewed and copied using terraserver.com (MSN)

Utah Department of Environmental Quality, Division of Radiation Control, Short-(Long) Term Radon Test Results by County and ZIP Code-as of March 2000

VISTA Information Solutions, ASTM Site Assessment Report I.D. 0326-002-1, September 24, 2001

### Interviews with Knowledgeable People

Name	Agency or Company Affiliation	Phone No.
Dave Perry	USDA Aerial Photo Lab	(801) 975-3503
Wayne Hedberg	DOGM	(801) 538-5286
Mark Mesch	DOGM	(801) 538-5349
Doug Bacon	DOGM	(801) 538-4282
Steven Theriot	DERR	(801) 536-4107
Glenn Greengelgh	Juab County Planning	(435) 623-3401
Bruce Armstrong	Utah County Planning	(801) 370-8344
Vern Tharp	Sellers Financial	(303) 295-1215

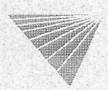
# APPENDIX E

Vista Information Solutions, Inc. Environmental Database Search

# Sellers

PROPERTY	CLIENT
INFORMATION	INFORMATION
Project Name/Ref #: Vern Tharp	
4500 Acres-Tintic District	
Eureka	
Eureka, UT 84628	
Latitude/Longitude: (39.946273, 112.114203)	

	Site D	istribution Summary	within 4 miles
Agency / Dat	abase - Type of Recor	ds	
A) Databases	searched to 4 miles:		
US EPA	NPL	National Priority List	0
JS EPA	CORRACTS	RCRA Corrective Actions	0
JS EPA	RCRA-TSD	RCRA permitted treatment, storage, disposal facilities	0
JS EPA	CERCLIS/ NFRAP	Sites under review by US EPA	2
STATE/ REG/CO	LUST	Leaking Underground Storage Tanks	0
STATE/ REG/CO	SWLF	Solid waste landfills, incinerators, or transfer stations	0
STATE	NON ASTM	Additional federal, state and regional lists	7
JS EPA	TRIS	Toxic Release Inventory database	0
STATE/ CO	UST	Registered underground storage tanks	0
US EPA	GNRTR	RCRA registered small or large generators of hazardous waste	0
JS EPA	RCRA Viol	RCRA violations/enforcement actions	0
US EPA/ STATE	SPILLS	ERNS and state spills lists	0
LIMITATION OF LIA Customer procee VISTA cannot be a VISTA and its affilia	ds at its own risk in choosing t an insurer of the accuracy of ated companies, officers, age	to rely on VISTA services, in whole or in part, prior to proceeding with any tr the information, errors occurring in conversion of data, or for customer's use ents, employees and independent contractors cannot be held liable for ac	ansactio e of data curacy,
VISTA cannot be a VISTA and its affilia	ds at its own risk in choosing t an insurer of the accuracy of ated companies, officers, age	the information, errors occurring in conversion of data, or for customer's use	e of c



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: 0386\_02\_1

Version 2.7

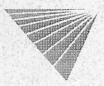
Date of Report: September 24, 2001

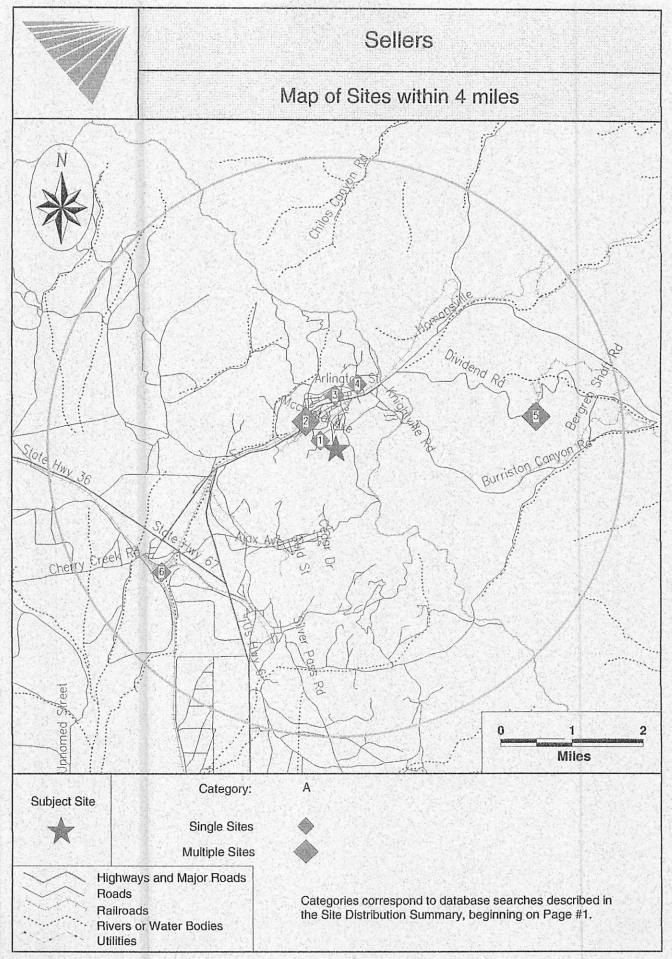
Page #1

# Sellers

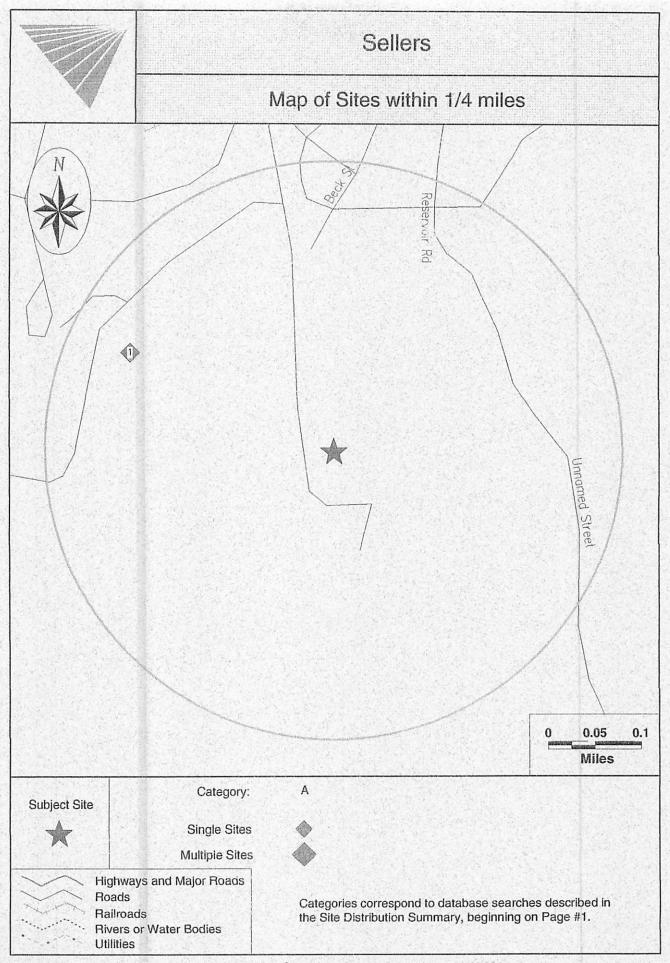
### SITE INVENTORY

									4					
MAP ID	PROPERTY AND THE ADJACENT AREA (within 4 miles)	VISTA ID DISTANCE DIRECTION	NPL	CORRACTS	TSD	CERCLIS/NFRAP	LUST	SWLF	NON ASTM	TRIS	UST	GNRTR	VIOL	SPILLS
1	USGS REPORTED WATER WELL , UT 0	9644879 0.18 MI W							x					
2	EUREKA MILLS WEST END OF EUREKA TOWN EUREKA, UT 84628	7290720 0.51 MI NW							х					
2	EUREKA MILLS 1.25 MI W OF THE UTAH-JUAB COUNTY LINE EUREKA, UT 84628	64488659 0.51 MI NW				х								
3	USGS REPORTED WATER WELL , UT 0	9644902 0.68 MI N							х					
4	USGS REPORTED WATER WELL , UT 0	9644911 0.88 MI NE							x					
5	USGS REPORTED WATER WELL , UT 0	9644894 2.79 MI							x					
5	USGS REPORTED WATER WELL , UT 0	9644895 2.79 MI E							х					
6	TINTIC SMELTER 2.5 MILES SOUTHWEST OF EUREKA EUREKA, UT 84628	7208530 2.96 MI SW				х			х					





For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403
Report ID: 0386\_02\_1
Date of Report: September 24, 2001
Page #2

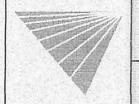


For More Information Call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403

Report ID: 0386\_02\_1

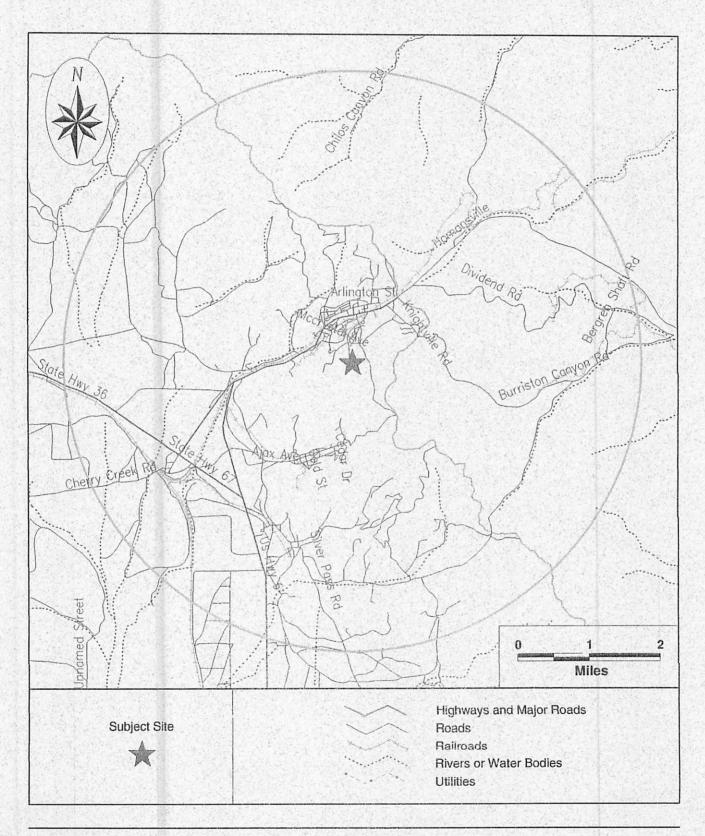
Date of Report: September 24, 2001

Page #3

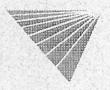


# Sellers

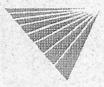
# Street Map



							1	A					
UNMAPPED SITES	VISTA ID	NPL	CORRACTS	TSD	CERCLIS/NFRAP	LUST	SWLF	NON ASTM	TRIS	ust	GNRTR	VIOL	SPILLS
CARPENTER STATION	2187544				-								
202 W MAIN ST							1			X			
EUREKA, UT 84628													
SUNSHINE MINING CO.	3950124						1000					130	400
6 MILES SE OF EUREKA		A STORY					11 14	X				X	
EUREKA, UT 84628												15	
UTAH POWER LIGHT CO - EUREKA SUB	3950213	19.3		8 7			1	75%			66		
EAST SIDE, 1 MI SE OF TOWN							335	X			X	X	
EUREKA, UT 84628						7.5				7			
NORTH LILY PROJECT	300875	35		128	14		100		4			100	
EUREKA, UT 84628				1				X					
JUAB COUNTY ROAD DEPT.	65391699					10.15	100		37	13	100		
MAMMOTH RD CENTER		35.				X				X		33.9	
EUREKA, UT 84628													
EUREKA CITY CORPORATION	12630578						23		100	7	200	275	14.4
EUREKA, UT 84628					73			X					
LOFGREN YARD	65977119		T de			- 5.		6237				N to	15
9 MI N OF TINTIC		134								X		1.7	
EUREKA, UT 84628												Ŷi.	
US WEST COMMUNICATIONS #671624	66094246	- 6				3100		0.0	1				7/3
EUREKA RADIO SITE.GODIVA MOUNTAIN								de		х	100		
EUREKA, UT 84628						87		100				7	
MAMMOTH MILLS AND SMELTER	64488660					77	100	K . 10					
MOUTH OF MAMMOTH GULTCH	01100000				X			1					
EUREKA, UT 84628					^								
MAMMOTH MILLS AND SMELTER	7290806	- 13								7.5	Search		
MOUTH OF MAMMOTH GULCH	7255500				610	S-63		X					
[10] 아이들 아이들 아이들 아이들이 아이들이 아니는 아이들이 아이들이 아니는 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들이 아이들							100	^					
EUREKA, UT 84628	5562145	200	-	1000	FEB.								887
TINTIC HIGH SCHOOL	3302143	14						X					
RUAL EUREKA								^		1			13
EUREKA, UT 84628	65201662			100	23.8			100	2 17				
UDOT STA. #621	65391653			100	138	V				v		Lac.	
US-6 E EUREKA CITY LIMITS						X				X			212
EUREKA, UT 84628	4154719	70	240	100				1	1	11-3		7	-
NORTH LILLY MINING PCB	4154/19							V				47	
3 MI S OF EUREKA ON HWY 6			1 -1		X	100		X				18	
EUREKA, UT 84628	64494811			1	-	100		-	-	-		-	1
TINTIC UTAH METALS LLC	04494811			1	1				100		v		100
15988 SILVER PASS RD					1	1					X		
EUREKA, UT 84628	00001011			-	17.			-	-	1			100
V J'S GAS GROCERIES	66094244			13						1			200
514 E MAIN.HWY 6 E EUREKA						12.6	1			X		100	
EUREKA, UT 84628						1	-						7.8
TINTIC SCHOOL DISTRICT	12502620	7					1.1	130			4.1		
55 E MAIN/PO BOX 210			37.			8		X	100				
EUREKA, UT 84628	Charles of Assets				3,3		100			1.3			
SUNSHINE MINING COMPANY	64502381		198									138	
P O BOX 250						X		1		X			
EUREKA, UT 84628		1				10	1						1 4



		H	137.1				1	4					
UNIMAPPED SITES		NPL	CORRACTS	TSD	CERCLIS/NFRAP	LUST	SWLF	NON ASTM	TRIS	UST	GNRTR	VIOL	SPILLS
SUNSHINE MINING EUREKA OPERATIONS BOX 250 EUREKA, UT 84628	12630579							х					



# Sellers

### DETAILS

### PROPERTY AND THE ADJACENT AREA (within 4 miles)

VISTA VISTA ID#: 9644879 **USGS REPORTED WATER WELL** Address\*: Distance/Direction: 0.18 MI / W Plotted as: Point USGS Wells - Federal Drinking Water Sources / SRC# 3 EPA/Agency ID: N/A SAME AS ABOVE Agency Address: **Facility State:** UT 395652112070601 Well ID: STOCK Well Use Type: 99.00 Well Depth: Well Latitude: 39.94777777777 -112.11833333333 Well Longitude: SENENES13 T10S R3W Section Township Range: Static Water Level: 25.00 07/25/1965 Date Well Drilled: Well County Fips: Agency ID(1), Epa ID(1), Facility Name(1), Facility Address(1), Facility City(1), Fields Not Reported by the Source Facility Zip(1), Facility County(1) Agency for this Site:

VISTA	EUREKA MILLS	VISTA ID#:	7290720
Address*:	WEST END OF EUREKA TOWN	Distance/Direction	: 0.51 MI / NW
		Plotted as:	Point
Manager III	EUREKA, UT 84628		
FINDS - Fac	ility Index System / SRC# 6	EPA/Agency ID:	N/A
Agoney A	ddross: SAME AS ABOVE		

Agency Address:

Epa ID:

UT0002240158 **EUREKA MILLS** 

**Facility Name: Facility Address:** 

WEST END OF EUREKA TOWN

**EUREKA Facility City:** UT **Facility State:** 84628 Facility Zip: N Indian Land: N Federal Facility: CERCLIS Tracking Program: 0801644 Program ID:

Fields Not Reported by the Source

Agency for this Site:

Agency ID(1), Facility County(1), Duns Number(1), SIC Code(1), SIC Trans(1)



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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Date of Report: September 24, 2001

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MapID

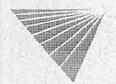
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2

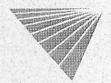
MapID

2

VISTA	EUREKA MILLS		VISTA ID#:	64488659
Address*:	1.25 MI W OF THE UTAH	I-JUAB COUNTY LINE	Distance/Direction:	0.51 MI / NW
	EUREKA, UT 84628	- Joseph Charles	Plotted as:	Point
ERCLIS / SI	the state of the s		Agency ID:	0801644
Agency A	ddress:	SAME AS ABOVE	, 9	
EPA ID:		UT0002240158		
Site ID:		0801644		
Financial N	lanagement System ID:	08CF		
EPA Region	1. (1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	08		
	cility Indicator:	NOT A FEDERAL FACILITY		
NPL Status:	[1] 10 10 10 10 10 10 10 10 10 10 10 10 10	PROPOSED FOR NPL		
Action:		DISCOVERY		
Action Lea	d:	EPA FUND-FINANCED		
Scheduled	Completion Date:	DECEMBER 31, 1997		
	npletion Date:	DECEMBER 15, 1997		
Action:		PROPOSED FOR THE NPL		
Action Lea	d:	EPA FUND-FINANCED		
	mpletion Date:	JUNE 14, 2001		
Action:		PRELIMINARY ASSESSMENT		
Action Qua	alifier:	HIGH		
Action Lea		STATE, FUND FINANCED		
	Start Date:	APRIL 6, 2000		
	Completion Date:	JUNE 30, 2000		
Actual Star	: (1	APRIL 6, 2000		
	mpletion Date:	APRIL 6, 2000		
Action:	inpiction bate.	SCREENING SITE INSPECTION	N	
Action Qua	alifier	HIGH		
Action Lea	기계 전기에 되는 경기를 하게 하지 않는 아이들이 가지 않는데 없다.	STATE, FUND FINANCED		
	Start Date:	JUNE 5, 2000		
	Completion Date:	MARCH 31, 2001		
Actual Star	일반 전환 경기 가게 되었다면 가게 되었다. 그 보고를 보고 많아 하고 하는 것이 없다고 하고 있다고 있다.	JUNE 5, 2000		
	mpletion Date:	JANUARY 11, 2001		
Site Descri		OPERATEDIN THE 1980'S AN OPERATED UNTIL 1899 WHE SALT LAKEFOR SMELTING IN	1890-93(?), AT THE WEST ENL D ARE SHOWNON 1908 SAI N RAIL RATES DECREASED A STEAD OF M ILLING. THE TV DESOF EUREKA CREEK, WHIC	NDBORN MAPS. THEMILLS INDORES WERE SENT TO VO MILL SITES ARE
Financial T	ransaction ID:	0001		
Transaction		ACTUAL OBLIGATION		
Transaction		NOVEMBER 15, 2000		
Amount:		\$ 1,613.00		Section 2
	ransaction ID:	0003		
Transaction		ACTUAL OBLIGATION		
Transaction		JANUARY 9, 2001		
Amount:		\$ 385.00		
	ransaction ID:	0002		
	n Type:	ACTUAL OBLIGATION		



Transaction Date:	OCTOBER 25, 2000
Amount:	\$ 396.00
Financial Transaction ID:	0001
Transaction Type:	DEOBLIGATION
Transaction Date:	NOVEMBER 15, 2000
Amount:	\$ 1,613.00
Financial Transaction ID:	0002
Transaction Type:	DEOBLIGATION
Transaction Type:	OCTOBER 25, 2000
Amount:	\$ 396,00
Financial Transaction ID:	0003
	DEOBLIGATION
Transaction Type:	JANUARY 9, 2001
Transaction Date:	\$ 385,00
Amount:	0001
Financial Transaction ID:	EXTRAMURAL OUTLAY (PAYMENT)
Transaction Type:	NOVEMBER 15, 2000
Transaction Date:	\$ 1,613.00
Amount:	
Financial Transaction ID:	0002
Transaction Type:	EXTRAMURAL OUTLAY (PAYMENT)
Transaction Date:	OCTOBER 25, 2000
Amount:	\$ 396.00
Financial Transaction ID:	0003
Transaction Type:	EXTRAMURAL OUTLAY (PAYMENT)
Transaction Date:	JANUARY 9, 2001
Amount:	\$ 385.00
Operable Unit ID:	07
Operable Unit Name:	RAILROADS
Operable Unit ID:	05
Operable Unit Name:	KEYSTONE
Operable Unit ID:	06
Operable Unit Name:	GROUND WATER
Operable Unit ID:	.02
Operable Unit Name:	EAST EUREKA (GODIVA)
Operable Unit ID:	03
Operable Unit Name:	WEST UEREKA (BULLION BECK)
Operable Unit ID:	04
Operable Unit Name:	GROUNDWATER OTHER
Operable Unit ID:	01
Operable Unit Name:	CENTRAL EUREKA
Operable Unit ID:	00
Operable Unit Name:	SITEWIDE
Alias ID:	101
Alias Name:	BULLION BECK MILL
Address:	WEST END OF EUREKA TOWN

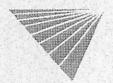


\* VISTA address includes enhanced city and ZIP.
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	EUREKA
	UT
Alias ID:	102
Alias Name:	BULLION BECK CHAMPION MILL
Address:	WEST END OF EUREKA TOWN
	EUREKA
	UT
Alias ID:	103
Alias Name:	EUREKA HILL MILL
Address:	WEST END OF EUREKA TOWN
	EUREKA
	UT
Alias ID:	104
Alias Name:	EUREKA MILLS
Address:	INTERSECTION OF US HWY 6 ANDSHRIVER ST
	EUREKA UT
	84628
Alias ID:	105
Alias Name:	EUREKA MILLS
Fields Not Reported by the Source Agency for this Site:	USGS Hydrologic Unit Code(1), Ownership Type(1), Hazardous Waste Docket Flag(1), Site Incident Category Description(9), Action Qualifier(2), Scheduled Start Date(2), Actual Start Date(2), Scheduled Completion Date(1), (1), (1), (1), (2), (2), (2), (2), (2), (2), (2), (2

VISTA	USGS REPORTED WATER	WFII	VISTA ID#:	9644902	MapII
Address*:	UT 0		Distance/Direction:	0.68 MI / N	
	UIV		Plotted as:	Point	3
ISGS Wells	- Federal Drinking Water So	urces / SRC# 3	EPA/Agency ID:	N/A	
Agency A		SAME AS ABOVE			
Facility Sta	할 것이 없는 사람이 없는 살이 없는 것이 없는 것이 없는 것이 없는 것이 없다.	UT			
Well ID:		395725112065200			
Well Use Ty	/pe:	PUBLIC SUPPLY			
Well Depth	6. (1997년 - 1987년 - 1 1987년 - 1987년	379.0			
Well Latitud		39.95694444444			
Well Longit	tude:	-112,1144444444			177
Section To	wnship Range:	NESWNWS18T10 SR 2 V	V		
Static Wate	er Level:	40.00			
Date Well	Drilled:	01/01/1970			
Well Coun	ty Fips:	49023			
The second secon	Reported by the Source or this Site:	Agency ID(1), Epa ID( Facility Zip(1), Facility (	1), Facility Name(1), Facility Add County(1)	dress(1), Facility City(1),	

VISTA	USGS REPORTED WATER WELL		VISTA ID#:	9644911	
Address*:	UT O		Distance/Direction:	: 0.88 MI / NE	
	010		Plotted as:	Point	
JSGS Wells	- Federal Drinking W	ater Sources / SRC# 3	EPA/Agency ID:	N/A	
Agency A		SAME AS ABOVE			
Facility State:		UT			
Well ID:		395733112063000			



\* VISTA address includes enhanced city and ZIP.
For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

Report ID: **0386\_02\_1** Version 2.7

Date of Report: **September 24, 2001**Page #11

Well Use Type:

PUBLIC SUPPLY

Well Depth:

390.0

Well Latitude:

39.959166666666

Well Longitude:

-112.1083333333

Section Township Range:

SWNWNES18T10 SR 2 W

Static Water Level:

40.00

Date Well Drilled:

01/01/1970

Well County Fips:

49023

Fields Not Reported by the Source

Agency ID(1), Epa ID(1), Facility Name(1), Facility Address(1), Facility City(1),

Plotted as:

Plotted as:

EPA/Agency ID:

EPA/Agency ID:

Agency for this Site:

Facility Zip(1), Facility County(1)

VISTA Address\*:

**USGS REPORTED WATER WELL** IITO

VISTA ID#: 9644894 Distance/Direction: 2.79 MI / E

Point N/A

5

MapID

USGS Wells - Federal Drinking Water Sources / SRC# 3 Agency Address:

SAME AS ABOVE

**Facility State:** 

Well ID:

395710112034000

Well Use Type:

UNUSED

Well Latitude:

39.95277777777

Well Longitude:

-112.06111111111

Well County Fips:

49049

VISTA Address\*:

**USGS REPORTED WATER WELL** 

VISTA ID#: 9644895 Distance/Direction:

2.79 MI / E

**Point** 

N/A

MapID 5

UT O

USGS Wells - Federal Drinking Water Sources / SRC# 3

SAME AS ABOVE

Agency Address: **Facility State:** 

UT

Well ID:

395710112034001

Well Use Type:

UNUSED

Well Latitude:

39.95277777777

Well Longitude:

-112.0611111111 NENWSWS15T10 SR 2 W

Section Township Range: Well County Fips:

49049

VISTA

TINTIC SMELTER

VISTA ID#: 7208530

EPA/Agency ID:

Address\*: 2.5 MILES SOUTHWEST OF EUREKA

Distance/Direction: 2.96 MI / SW

N/A

EUREKA, UT 84628

Plotted as: Point

6

Map ID

FINDS - Facility Index System / SRC# 6

SAME AS ABOVE

Agency Address: Epa ID:

UT0001958453

**Facility Name:** 

TINTIC SMELTER

Facility Address:

2.5 MILES SOUTHWEST OF EUREKA

**Facility City:** 

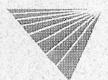
**EUREKA** 

Facility State:

UT

Facility Zip:

84628



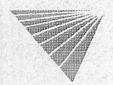
\* VISTA address includes enhanced city and ZIP.

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Indian Land:	N .
Federal Facility:	N
Tracking Program:	CERCLIS
Program ID:	0801616
Fields Not Reported by the Source Agency for this Site:	Agency ID(1), Facility County(1), Duns Number(1), SIC Code(1), SIC Trans(1)
CERCLIS / SRC# 17	Agency ID: 0801616
Agency Address:	SAME AS ABOVE
EPA ID:	UT0001958453
Site ID:	0801616
EPA Region:	08
Ownership Type	PRIVATE
Federal Facility Indicator:	NOT A FEDERAL FACILITY
NPL Status:	NOT ON THE NPL
Site Incident Category Description	MINES/TAILINGS
Action:	DISCOVERY
Action Lead:	STATE, FUND FINANCED
Scheduled Completion Date	JUNE 30, 1997
Actual Completion Date:	APRIL 30, 1997
Action:	PRELIMINARY ASSESSMENT
Action Qualifier	LOW
Action Lead:	STATE, FUND FINANCED
Scheduled Completion Date	NOVEMBER 13, 1998
Actual Completion Date:	OCTOBER 7, 1998
Action:	SCREENING SITE INSPECTION
Action Qualifier	NFRAP (NO FUTHER REMEDIAL ACTION PLANNED
Action Lead:	STATE, FUND FINANCED
Actual Completion Date:	MAY 1, 2001
Site Description:	MILL BUILT IN 1908 ON THE OUTSKIRTS OF THE PRESENT DAY GHOST TOWN OF SILVER CITY, UT. BEFORE THE END OF 1908 TWO LEAD FUNACES, EACH HAVING, CAPICITY OF 250 TONS, WEREOPERATING AND A COPPER FURNACE WAS ABOUT TO BE PLACED IN OPERATION. TWO ADDITIO NAL LEAD FURNACES WER ADDED IN 1909. THE SMELTER WAS DISMANTLED BY KNIGHT IN 1915 AND IT WAS MOVED TO SLC. POP.TARGETS ARE PRESENT WITHINONE-HALF TO ONE-PLUS MI. OFTHE SITE. A LEACH PAD WHICH IS IN CLOSURE IS LOCATED @2000 FT TO THE SOUTH.
Operable Unit ID:	00
Operable Unit Name:	SITEWIDE
Alias ID:	101
Alias Name:	JESSE KNIGHT SMELTER
Fields Not Reported by the Source Agency for this Site:	Financial Management System ID(1), USGS Hydrologic Unit Code(1), Hazardous Waste Docket Flag(1), Action Qualifier(1), Scheduled Start Date(3) Actual Start Date(3), Scheduled Completion Date(1), (1), Description(1), (1), (1), (1), Address(1), (1)

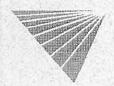


\* VISTA address includes enhanced city and ZIP.
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### **UNMAPPED SITES**

VISTA	JUAB COUNTY R	OAD DEPT.	VISTA ID#:	65391699				
Address*:	MAMMOTH RD C EUREKA, UT 8462	CENTER						
TATE LUST - 99	ATE LUST - State Leaking Underground Storage Tank / SRC#		Agency ID:	2000608				
Agency A	ddress:	SAME AS ABOVE						
Facility ID	#:	2000608						
Facility Na	me:	JUAB COUNTY ROAD DEPT						
Facility Ad	dress:	MAMMOTH RD CENTER						
		EUREKA, UT 84628						
Facility Co		JUAB						
Date Close		9/26/1996						
Release ID	#:	JOW						
Project Ma	nager:	TAMIE CALL						
Notification	n Date:	6/26/1996						
Media Affe	ected:	NOT REPORTED	NOT REPORTED					
Substance	Leaked:	NOT REPORTED	NOT REPORTED					
Discovery Date:		NOT REPORTED	NOT REPORTED					
Owner Na	me:	JUAB COUNTY UTAH	JUAB COUNTY UTAH					
Owner Add	dress:	160 N MAIN ST						
		NEPHI, UT 84648						

VISTA	MAMMOTH MILLS AND SMELTER		VISTA ID#:	64488660				
Address*:	MOUTH OF MAMMO							
	EUREKA, UT 84628							
CERCLIS / SI	RC# 17		Agency ID:	0801645				
Agency A	ddress:	SAME AS ABOVE						
EPA ID:		UT0002241917						
Site ID:		0801645						
EPA Region	1:	08						
Federal Fa	cility Indicator:	NOT A FEDERAL FAC	ILITY					
NPL Status:		NOT ON THE NPL						
Action:		DISCOVERY						
Action Lea	d:	EPA FUND-FINANCEL	)					
Scheduled	Completion Date	DECEMBER 31, 1997						
Actual Co	mpletion Date:	DECEMBER 15, 1997						
Action:		PRELIMINARY ASSESS	MENT					
Action Qua	alifier	LOW						
Action Lea	nd:	STATE, FUND FINANC	STATE, FUND FINANCED SEPTEMBER 30, 1999					
Scheduled	Completion Date	SEPTEMBER 30, 1999						
Actual Co	mpletion Date:	SEPTEMBER 21, 1999						
Site Descri	ption:	MILLS AND SMELTERS BEEN LOCATED WITH OPERATED UNTIL 189	ARE NOTED IN SOME HISTOR IIN THE TOWN OF MAMMOTE	DUTH OF MAMMOTH CANYON. RICAL ACCOUNTS AS HAVING H AS EARLY AS 1873.THE MILLS SED AND ORES WERE SENT TO				



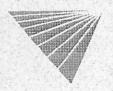
\* VISTA address includes enhanced city and ZIP.
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### UNMAPPED SITES CONT.

Operable Unit ID:	00
Operable Unit Name:	SITEWIDE
Alias ID:	101
Alias Name:	MAMMOTH MILL
Address	MOUTH OF MAMMOTH GULCH
	EUREKA
	UT
Alias ID:	102
Alias Name:	FARRELL MILL
Address	MOUTH OF MAMMOTH GULCH
	EUREKA
	UT
Alias ID:	103
Alias Name:	SIOUX MILL
Address	MOUTH OF MAMMOTH GULCH
	EUREKA
	UT
Fields Not Reported by the Source Agency for this Site:	Financial Management System ID(1), USGS Hydrologic Unit Code(1), Ownership Type(1), Hazardous Waste Docket Flag(1), Site Incident Category Description(2), Action Qualifier(1), Scheduled Start Date(2), Actual Start Date(2), (1), (1), (1), (1)

VISTA Address*:	UDOT STA. #621 US-6 E EUREKA ( EUREKA, UT 8462		VISTA ID#:	65391653				
TATE LUST -	State Leaking Unde	erground Storage Tank / SRC#	Agency ID:	2000214				
Agency A	ddress:	SAME AS ABOVE						
Facility ID		2000214						
Facility Na		UDOT STA. #621						
Facility Ac		US-6 E EUREKA CITY LIMITS	US-6 E EUREKA CITY LIMITS					
,		EUREKA, UT 84628						
Facility Co	ounty:	JUAB						
<b>Date Clos</b>	ed:	9/11/1998						
Release II	) #:	IDI						
Project Ma	anager:	EDWARD FALL						
Notificatio		6/21/1993						
Media Aff	ected:	NOT REPORTED	NOT REPORTED					
Substance Leaked: Discovery Date:		NOT REPORTED	NOT REPORTED  NOT REPORTED					
		NOT REPORTED						
Owner Na		UTAH STATE FLEET OPS/FUE	EL DISPENSING					
Owner Ac		ATTN STEVE SALTZGIVER 4	ATTN STEVE SALTZGIVER 4120 STATE OFFICE BLDG					
		SALT LAKE CITY, UT 84114						



\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

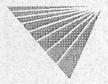
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### UNMAPPED SITES CONT.

VISTA. VISTA ID#: 4154719 NORTH LILLY MINING PCB Address\*: 3 MIS OF EUREKA ON HWY 6 EUREKA, UT 84628 0801341 CERCLIS / SRC# 17 Agency ID: SAME AS ABOVE Agency Address: UTD988078960 EPA ID: Site ID: 0801341 08Y7 Financial Management System ID 08 **EPA Region:** 16030005 USGS Hydrologic Unit Code UNKNOWN Ownership Type Federal Facility Indicator: NOT A FEDERAL FACILITY NOT ON THE NPL **NPL Status:** NOT ON THE HAZARDOUS WASTEDOCKET Hazardous Waste Docket Flag MINES/TAILINGS Site Incident Category Description ILLEGAL PCB TRANSFORMER DISPOSAL AT A MINE. INVESTIGATION 5/93. Site Description: Operable Unit ID: SITEWIDE Operable Unit Name: (1), Description(1), (1), (1), (1) Fields Not Reported by the Source

VISTA Address*:	P O BOX 250		VISTA ID#:	64502381					
TATE LUST -	EUREKA, UT 8462 State Leaking Under	erground Storage Tank / SRC#	Agency ID:	2000132					
199			1						
Agency A	ddress:	SAME AS ABOVE							
Facility ID	#:	2000132							
Facility Na	me:	SUNSHINE MINING COMPA	ANY						
Facility Ad	dress:	P O BOX 250							
		EUREKA, UT 84628							
Facility Co	unty:	JUAB	JUAB						
Date Close	ed:	8/18/1992							
Release ID	) #:	FMC							
Project Ma	inager:	BEN ANDERSON							
Notificatio	n Date:	12/29/1989							
Media Affe	ected:	NOT REPORTED							
Substance	Leaked:	NOT REPORTED	NOT REPORTED						
Discovery Date:		NOT REPORTED	NOT REPORTED						
Owner Na		SUNSHINE MINING COMPA	ANY						
Owner Ad	dress:	P O BOX 250							
		EUREKA, UT 84628							



Agency for this Site:

\* VISTA address includes enhanced city and ZIP.

For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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### Sellers

### DESCRIPTION OF DATABASES SEARCHED

### A) DATABASES SEARCHED TO 4 MILES

NPL SRC#: 19 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for National Priorities List was July, 2001.

The NPL Report is the US EPA's registry of the nation's worst uncontrolled or abandoned hazardous waste sites. NPL sites are targeted for possible long-term remedial action under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980.

CERCLIS SRC#: 17 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Comprehensive Environmental Response, Compensation and Liability Information Sys was July, 2001.

The CERCLIS database is a comprehensive listing of known or suspected uncontrolled or abandoned hazardous waste sites. These sites have either been investigated, or are currently under investigation by the U.S. EPA for the release, or threatened release of hazardous substances. Once a site is placed in CERCLIS, it may be subjected to several levels of review and evaluation, and ultimately placed on the National Priorities List (NPL).

NFRAP SRC#: 18 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for No Further Remedial Action Planned was July, 2001.

The No Further Remedial Action Planned Report (NFRAP), also known as the CERCLIS Archive, contains information pertaining to sites which have been removed from the U.S. EPA's CERCLIS database. NFRAP sites may be sites where, following an initial investigation, either no contamination was found, contamination was removed quickly without need for the site to be placed on the NPL, or the contamination was not serious enough to require federal Superfund action or NPL consideration.

CORRACTS SRC#: 14 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS Corrective Action Sites was June, 2000.

The CORRACTS database contains information concerning RCRA facilities that have conducted, or are currently conducting a corrective action. A Corrective Action Order is issued pursuant to RCRA Section 3008 (h) when there has been a release of hazardous waste or constituents into the environment from a RCRA facility. Corrective actions may also be imposed as a requirement of receiving and maintaining a TSDF permit.



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ERNS SRC#: 8 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Emergency Response Notification System was December, 2000.

ERNS is a national computer database system that is used to store information on the sudden and/or accidental release of hazardous substances, including petroleum, into the environment. The ERNS reporting system contains preliminary information on specific releases, including the spill location, the substance released, and the responsible party.

RCRIS-TSD SRC#: 12 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS Treatment, Storage and Disposal Facilities was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDs are facilities which treat, store and/or dispose of hazardous waste.

RCRIS-TSDC SRC#: 556 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS TSDs Subject to Corrective Action was June, 2000.

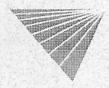
The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA TSDCs are treatment, storage and/or disposal facilities that are subject to corrective action under RCRA.

RCRA-LQG SRC#: 16 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS Large Quantity Generators was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Large Generators are facilities which generate at least 1000 kg./month of non-acutely hazardous waste (or 1 kg./month of acutely hazardous waste).

RCRIS-SQG SRC#: 15 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS Small Quantity Generators was June, 2000.

The EPA's Resource Conservation and Recovery Act (RCRA) Program identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRA Facilities database is a compilation by the EPA of facilities which report generation, storage, transportation, treatment or disposal of hazardous waste. RCRA Small Quantity Generators are facilities which generate less than 1000 kg./month of non-acutely hazardous waste.



RCRIS-VIOL SRC#: 11 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for RCRIS Facilities with Violations was June, 2000.

The Resource Conservation and Recovery Act Information System (RCRIS) identifies and tracks hazardous waste from the point of generation to the point of disposal. The RCRIS Violations report contains information concerning facilities that have been cited for violations of RCRA, as well as any enforcement actions taken against the facility.

SWLF SRC#: 23 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for USGS Solid Waste Landfills was December, 1991.

This database is provided by the United States Geological Survey. The agency may be contacted at: 703-648-5613.

SWLF SRC#: 495 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Closed Solid Waste Disposal Sites was May, 2001.

This database is provided by the Department of Environmental Health, Bureau of Solid and Hazardous Waste. The agency may be contacted at: 801-538-6170.

SWLF SRC#: 496 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Landfill Inventory was May, 2001.

This database is provided by the Department of Environmental Health, Bureau of Solid and Hazardous Waste. The agency may be contacted at: 801-538-6170.

SWLF-CO SRC#: 493 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Salt Lake County Inventory of Land Disposal Sites was February, 1999.

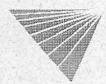
This database is provided by the Department of Health, Bureau of Solid and Hazardous Waste. The agency may be contacted at: 801-538-6170. This database contains information from the:A search of this database revealed the following facilities located in the zip code searched. Also included are sites with incomplete addresses reported to be located in the city searched. If no city name has been reported, the county name was used.

SPILLS SRC#: 498 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Hazardous Spills was January, 2001.

This database is provided by the Department of Environmental Health. The agency may be contacted at: 801-536-4113.

LUST SRC#: 499 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Leaking Underground Storage Tanks was July, 2001.

This database is provided by the Dept. of Environmental Health, Division of Environmental Response Remediation. The agency may be contacted at: 801-536-4100.



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NPLLNS SRC#: 1303 VISTA conducts a database search to identify all sites within 4. mile of your property.

The agency release date for Federal Superfund Liens was October, 1991.

This historical database has information on liens filed against real property in order to recover remedial action expenditures or when the property owner receives notification of potential liability.

UST SRC#: 500 VISTA conducts a database search to identify all sites within 4. mile of your property.

The agency release date for Underground Storage Tanks was July, 2001.

This database is provided by the Department of Environmental Health. The agency may be contacted at: 801-536-4100. Be advised that some states do not require registration of heating oil tanks, especially those used for residential purposes.

TRIS SRC#: 2 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Toxic Release Inventory System was January, 1998.

All facilities that manufacture, process, or import toxic chemicals in quantities in excess of 25,000 pounds per year are required to register with the EPA under Section 313 of the Superfund Amendments and Reauthorization Act (SARA Title III) of 1986. Data contained in the TRIS system covers approximately 20,000 sites and 75,000 chemical releases.

USGS-WELLS SRC#: 3 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for USGS Water Wells was March, 1998.

The Ground Water Site Inventory (GWSi) database was provided by the United States Geological Survey (USGS). The database contains information for over 1,000,000 wells and other sources of groundwater which the USGS has studied, used or documented during research.

DRY-WELL SRC#: 494 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Dry Wells was August, 2000.

The Dry Well Report contains summary-level information concerning dry and/or injection wells.

FINDS SRC#: 6 VISTA conducts a database search to identify all sites within 4. mile of your property. The agency release date for Facility Index System was February, 1999.

The FINDS report is an inventory of all facilities that are regulated or tracked by the U.S. Environmental Protection Agency. These facilities are assigned an identification number that serves as a cross-reference for other databases in the EPA's program system. Each FINDS record indicates the EPA Program Office that is responsible for the tracking of the facility.

### End of Report



For more information call VISTA Information Solutions, Inc. at 1 - 800 - 767 - 0403.

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# APPENDIX G Notes of Interviews with Government Representatives

Date: 3 CCT Time: 1:30 pM
TO: STRUKN THANSOT PHONE NUMBER: (801) 53/5 3/10-7/
DEPR AFMINISTRATER
FROM TORRE POSTER STANDE CERCLA SITE
FROM: JERRY (PANTON) RE: STUTURE CHESTANTING THE INTIC
MANUEL DISTENT
GRANITE AEXED MP. THERIOT ABOUT
CUPPRAT CEACLA SITE INVESTIBATORY WORK
ABIUTELL AS THE COUNT FICATION OF NEW
TARGETS FOR CRECKY INCLUSION. HE LISTED
THE CURRENTS NES WHICH WERE THE SAME
AS HOSE PROVIDED BY DOVE BACON. HE
DID, HOWKURD, SAY YHK STATE WAS PLANNING
THERE I INOVATIVE ASSESSMENTS AT LOCATIONS
NOT PARLICULLY INDESTIBATED. HE CLASIFIED
The Trem MONATUR ASSESS MENT WHICH
13 USED BY DEED AS A STATE FUNDED
LUESTIBATION AND NOTA CERCLA ER FROGRALLY
SPONSORIED INVESTIGATION. THE THERE SITES
IN THE TINTIC ENTART WHERE SHOW WORK
18 Bring PLANNED IS: HOMANSDILLE,
SILVER CITY MILL AND SMELTER (IN THE
TOLOW OF SILVER VIYY), AND SIZVER PASS
BIG ANDYON WHICH IS SOMETHERST OF ENEETH.
THE BILINE DASS LEATION HAS NAD SOME
OLDER TAILINGS IMPOUND MENTS BEACHED
AND SERVINENTS THEY FLOWED NOTO TH
LEASURGE WHICH COULD IMPACT SUBTRICES
WATER QUALITY IN THE ELBERTH AREA ROBINT
15 NEWLY SEPELOPED FOR HEPPONTANTE NOW 6
OF THEE PROSECTS HAVE HISHARD STATISTICS
TENT WILL IN THE NEW SEPACEN-NIEWS TO THE
COPIES: TRESKOT FILE & ESA REPORT
FOLLOW-UP:

PROJECT CODE 0826-002

# Granite Environmental, Inc.

TEO	Date: 300 Time: 10130 AU1  WAYNE HOBER PHONE NUMBER (BOX) 538 5286
TO:	DOESTIM MINISPERS PHONE NUMBER: (BOY) 538 5286
	O CONTRACTOR PERSONAL DESCRIPTION OF THE PARTY OF THE PAR
FROM	Scene (leasetral) RE: MUKB LAND RECHINATION
	IN THE THORE MANNE DIE
Paragraphy and a	
	GRANITE ASKED MR. WEDBEEGE 1. HAS THE
	NORTH LILY MINIME CO. HAND LEASET PILE NEAR
	THE OLD TINTIC SMELTER SITE BELLICIONE
	HE SAID THAT INDERED IT MAD BEEN CLOSE
	AS FAR AS CONTINUED WOOK, OTHER THAN
	Some DEBIODIC SAMPLING OF FLUDS
:	THAT MAY CONTINUED TO BE TEMPEDIN
	A SMALL DOWN BOREAM BUMP ALL OTHER
	WORK BUCH AS CAPPING THE SITE WITH SOIL
	AND SEEDING WITH WATUR GLANT SEED
	HAS BEEN COMPLETED. HE ALSO SAND THE
	LEVEL OF PLANT CEDENTH MET THE MINIMUM
	CONCERTANTION DES DEALD IN THE PLAN.
	GRANITE ASKED WHAT FUTURE PROJECTS
	TOR MINING DECLAMATION MIGHT BE
	PLANNED FOR THE TINTIC DEPOSET, HE
	SAID NOVE CURPENTAY.
	FINANY, GRANITE ASKED WHAT MIGHT TSE
	PLANTED FOR WHOTE Dumps in VAL
	VARIOUS DADES OF THE TINOTIC DISTAICTS
	HE SHID HIS DEPARTMENT MAS NO
	PLANS FOR DUMP MANACE MENT, BUT
<del></del>	HE RECOMMENDED EDANITE CALL
	LARIOUS PERSONNEL AT DEDR.
· · · · ·	
COPIT	S. TROSEET FILE AND ESA LEPONT
FOLL	OW-UP:

TO: MAPK MESON PHONE NUMBER: 801) 538 5379
Dept. oil Chest Minus
FROM: Supple CEANTOND RE: MINED-LAND KELLANDER
CLOSIBLE.
GRANTE ASK MD. MESON, THE
ABANDONED MINE LAND ADMINISTRATION
WITH THE DUISMON OF ON GASTMINING
IF THERE ARE FLAME PLACE TOP
MINE LAND PECLAMATION OF ABANDONED
MINE WORKING 3 ( WINKE CORUM) (LOSUBE)
THE STATED NO THINGSIATES CLOSURE
PROSECTS ARE PLANNED; HOWERED HIS
DEPARTIBLISTS PLANNING OCHOLOR OF OLD
MARREBERUND WORKINGS NO THE WEIGHTY
OF THE TOWN OF MAMMONS, THE DID YOT
MAUR A SET DATE FOR THE PROSECT. HE
STATED FUNTHER SHAT SUCH A DAVSKIT
WOULD BE PRECEDED BY AN INVENTERYNE
of ALL open workings paid To The
CLOSURE PROJECT. HE ALSO SAID THAT
ANY ACID MINE DIAMAGE, TE ANY KELISTS
WILL BE ABATED AT THAT TIME.
GRANITE ALSO ASKED ABOUT LIABILITY BY
LANDOWNERS FOR SICHA DESSECT. HE SAID
ALL CLOSURES OF ABANDONED MINES WOULD
BE FUNDED BY THE STATE; THORENED, ANY RECENTLY ACTIVE MINE OPERATION TO BE
CLOSED WORLD OR COULD BE THE RESPONSIBILITY
OF THE OWNER.
ET ITTE OUNTER,
COPIES: PRESECT FILE AND ESA REPORT,
FOLLOW-UP:
LODDO W. CL.

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# Granite Environmental, Inc.

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# APPENDIX H

Heap Leach Pad-DOGM Records



State of Utah
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Kathleen Clarks Executive Director Lowell P. Braxton

Division Director

1594 West North Temple, Suite 1210 PO Box 145801 Sall Lake City, Utah 84114-5801 801-538-5340 801-359-3940 (Fax) 801-558-7223 (TDD)

June 12, 2001

Mr. Steve Flechner North Lily Mining Company 1800 Glenarm Place Denver, Colorado 80202

Re: Approval of 2<sup>nd</sup> Request for Partial Bond Release, North Lily Mining Company, Tintic Project, M/023/007, Just County, Utah

Dear Mr. Flechner:

On June 1, 2001, North Lily made a formal request for a 2<sup>nd</sup> partial bond release for reclamation work completed at North Lily's Tintic Project. North Lily has requested that \$108,024 (plus appropriate contingency and escalation factor adjustments) be released from the required \$155,100 certificate balance. The reduction amount was based upon the itemized costs contained in the current reclamation bond estimate. Your letter requested credit for the following reclamation tasks:

- \$ 5,000 (Demolition of Buildings and Facilities)
- \$ 9,696 (Debris & Equipment Removal)
- \$ 470 (Regrade Facilities Area)
- \$ 5,640 (Regrade Solution Ponds)
- \$ 704 (Ripping Stockpile and Compacted Areas)
- 4 \$19,380 (Topsoil Replacement)
- \$ 1,070 (General Site Clean-up and Trash Removal)
- \$ 500 (Equipment Mobilization)
- \$ 2,790 (Reclamation Supervision)
- \$59,798 (Post Closure Fluid Management System)
- \$ 2,976 (Construction Supervision)

We have reviewed the reclamation tasks performed and the dollar amounts requested. As you know, OGM and DWQ staff have performed onsite inspections confirming that these tasks are completed. Both agencies agree that this partial bond release is justified. A total of \$122,600 dollars is hereby released, which includes contingency and escalation factors. We will instruct Wells Fargo Bank to retain \$32,500 of the current certificate balance for the post-closure monitoring provisions and the residual revegetation work that must be completed this fall (see attached cost breakdown sheet). Any accrued interest above the \$155,100 base amount may also be released to North Lily.

Page 2 Steve Flechner North Lily Mining Company June 12, 2001

The Division will forward the necessary paperwork to Wells Fargo Bank authorizing release of these funds to North Lily to meet its payment obligations for the project reclamation work performed to date. Thank you for your cooperation in moving the closure and reclamation work forward so that the July 1, 2001 project deadline could be met. We look forward to meeting with you ensite on June 26th to jointly review the status of the successful reclamation work performed to date.

If you have any questions in this regard, please call me, or Wayne Hedberg of my staff at (801) 538-5306 and 538-5286, respectively.

Sincerely,

Mary Ann Waright

Associate Director, Mining

jb

Attachment: Revised Reclamation Cost Estimate

Bob Bayer, JBR

Dennis Frederick, DWQ

Wayne Hedberg, OGM

Doug Jensen, OGM

M23-07.BondRed2.doc

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RECLAMATION SURETY ESTIMATE	• .		·		1		-	*
North Lily Mining Company Tintic Project	last rev.	03/01/01		]	1		1.5	*
M/023/007	filename M023-00 Juab County					DRAFT		
Prepared by Utah State Division of Oil, Gas & I -This estimate uses a D8 size dozer for most e	Mining		<del> </del>					
Acreage lotals				İ				
Heaps - 15.5 Buildings - 1 Topsoil Area - 3.	Borrow - 2.8 Po	nds - 1.2	$x_{i} = x_{i}$					
				Status	Release Requested	Release	Release	Bond Amounts
Note: actual unit costs may vary according to a	ite conditio last unit d	ost updat	08/25/99		CENTRAL	03/20/01	Authorized 08/01/01	Remaining calour
-Amount of disturbed area which will receive re	clamation treatment		acres	]				-215 174 1
-Estimated total disturbed area for this mine = Activity	Quantity Units	24.6 \$/unit	acres					
Demolition of buildings & facilities	1 lump su	. WURLL	5,000	ŀ			FE 400	
gnblunt - lavomen memolupe & sinded	10 trips	48	480		·		<u>\$5,000</u> \$480	
Debris & equipment removal - dump fees	100 ton	55	5,500		:		\$5,500	
Debris & equipment removal - loading trucks w Demoiltion & debris removal - general labor	F 16 hours 60 hours	178 15	2,816			•	<u>\$2,816</u>	1.
Regrading facilities areas (1 ft depth)	1.0 acre	470	900 470				\$900 \$470	<i>;</i>
Hazardous Waste Disposal	1 lump su	10000		partial		\$8,500	3470	\$1,500
				_				<u> </u>
Regreding heap slopes Regrede Solution Ponds	<u>26,000 CY</u> 12,000 CY	0.47	12,220 5,640	Comp.	\$12,220	\$12,220	A= 0.40	•
Loginos contient and	12,000 01	0.41	5,040				<u>\$5,640</u>	
Ripping stockpile & compacted areas	5.8 acre	220	1,276	partial		\$572	\$704	
	4.				1.0			
Ripping site - prior to seeding	18.8 ecre	220	4,136	partial	\$3,160	\$3,180	44	\$978
Topsoil replacement - truck & FE loader	38,000 CY	2.55	96,900	oertial	\$77,520	\$77,520	\$19,380	
				<del></del>	<b>4,7,02</b> 0	41,1040.	4,2,000	
Composted manure (10 ton/ecre)	24.6 acre	300	7,380		\$5,640	\$5,640		\$1,740
Broadcast seeding	24.6 acre	170	4,182	pertial		\$3,100		\$1,092
General site cleanup & trash removal	21 4 acre	50	1,070				\$1,070	1.4
		7		1			91,010	
Equipment mobilization	2 equip	1000	2,000	incomp.	\$1,000	\$0	\$50 <u>0</u>	\$1,500
Reclamation Supervision	10 days	372	3,720	·		1	£0.700	2000
Todanianon Oupervision	Subtotal	312	163,690	Subtotal	\$99,540	\$110,712	<u>\$2,790</u> \$45,250	\$930 \$6,79B
10% Contingency			16,369			\$11,071		\$5,298
	Subtotal		\$180,059			\$121,783	\$45,250	\$12,098
Escalate for 2 years at 3.13% per yr	Total		11,448 \$191,507		**		\$45,250	\$2,000 \$14,098
Rounde	surety amount in yr	2002-\$	\$191,500				\$45,300	\$14,100
Average cost per disturbed acre =	\$7,785							
		<u> </u>	<u> </u>					54 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Bonding Calculations for								
Additional Activities Costruction of Post Closure Fluid	Lump							
Management System	Sum		\$59,798.00		* .		\$59,798	
Construction Supervision	8 Days	\$372	\$2,976.00				\$2,976	
Post-Closure Monitoring/analysis	5 years per year	\$1500	\$7,500.00		•			\$7,500
and handling, date reporting, site	5 year	\$1,000	\$5,000.00					\$8,000
mant	Subtotal	\$1,000	\$75,274.00				\$108,074	\$28,600
10% Contingancy	1		\$7,527				\$10,807	\$1,250
	Subtotal		\$82,801				\$118,881	\$27,850
Escalate for1 years at 3.13% per yr	Total		\$2,592 \$85,393		• •		\$3,721	\$4,624
	Rounded Amount			Amounte	I Bond to be Relea	aned .	\$122,602 \$122,800	\$32,474 \$32,500
	- Jan man I will will	;	7.501.50				. شَنْتُ الْرَفِيدُ .	
North Lily bond Release Authorization		. :	\$121,800					
Additional Bonded Activities Cost	the second second		\$85,400		- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1			•
Bond Amount Authorized for Release	Total		\$38,400.00	-		• .		4.5
			71	٠.		• .	* *	
Present North Lily Bond Amount			\$191,500.00				\$156,100	, ,
Authorized Release Amount  Bond Amount Remaining for Final Reclemation	•	:	\$36,400.00 \$458.400.00	A	f North Lily Bond	Domelo's s	\$122,600 \$32,500	• • .
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## State of Utah DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

Michael O. Leavitt Governor Kathleen Clarke Brecutive Director Lowell P. Braxton Division Director 1594 West North Temple, Suite 1210 PO Box 146801 Salt Lake City, Utah 84114-5601 601-538-5340 801-359-3940 (Fax) 801-538-7223 (TDD)

June 12, 2001

Ann Norman Branch Manager Wells Fargo Bank 95 North Main Payson, Utah 84651

Re: <u>Authorization for Partial Release of Reclamation Surety, Certificate of Deposit (CD), North Lily Mining Company, Tintic Project, M/023/007, Juab County, Utah</u>

Dear Ms. Norman:

Wells Fargo Bank (formally First Security Bank) is presently holding a Certificate of Deposit #0485711979 for the benefit of the State of Utah, Division of Oil, Gas and Mining as a form of reclamation surety for North Lily Mining Company's, Tintic Mine Project. At the company's request and after site inspections to verify that reclamation work has been satisfactorily completed, this letter will authorize the release of sufficient principal to reduce the face value of the Certificate to no less than \$32,500 dollars. As of June 6, 2001, the Certificate balance with interest was reported at \$163,808 dollars. The partial payment should be directed to North Lily Mining Company (see attached release notification letter). We understand that a 3-month interest penalty may apply for early withdrawal of the certificate.

When this transaction has been accomplished, please furnish us with written confirmation that appropriate funds have been released and that the balance of retained funds will remain at \$32,500.

If you have any questions or concerns, please contact Mary Ann Wright at (801) 538-5306, or Wayne Hedberg at (801) 538-5286. Again, thank you for your help in this matter.

Sincerely,

Lowell P. Brazior

Director

jb
Attachment: 6/12/2001 release letter
cc: Steve Flechner, North Lily
Mary Ann Wright, DOOM
Wayne Hedberg, DOGM
O:\narthily\M23-07-interest-rel.doc



Michael O. Leavitt Governor Diannia R. Nielson, Ph.D. Executive Director Den A. Ostler, P.E.

### State of Utah

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

288 North 1450 West P.O. Box 144870 Salt Lake City, Utah 84114-4870 (801) 538-6146 (801) 538-6016 Pax (801) 536-4414 T.D.D. www.deg.state.ut.us Web Water Quality Board
K.C. Shew, P.B.
Chairman
William R. Williams
Vice Chainnan
Robert G. Adams
Nan Bunker
Ray M. Child, C.P.A.
John R. Chaing, Mayor
Neil K. Kochenour, M.D.
Dianne R. Nielson, Ph.D.
Ronald C. Sims, Ph.D.
Douglas E. Thompson, Mayor
J. Ann Wechster
Don A. Oslier, P.E.
Executive Segretary

August 15, 2001

Mr. Stephen Flechner, President North Lily Mining Company 1800 Glenarm Place, Suite 210 Denver, CO 80202

Dear Mr. Flechner:

RE: Closure of Notice of Violations, Docket Nos. UGW2003 and UGW20-04, For Failure to Maintain Discharge Minimization Technology

Review of our records indicate that North Lily Mining Company (North Lily) has satisfied all requirements, obligations and activities specified under the Notice of Violations (NOV), Docket Nos. UGW2003 and UGW20-04 that were issued by the Water Quality Board for failure to Maintain Discharge Minimization Technology (DMT).

Consequently, the NOVs addressing failure of DMT are hereby considered closed based on the following conditions:

- Post closure monitoring of heap leach drain-down fluid must be conducted according to the provisions
  of the ground water discharge amended permit to demonstrate that concentrations of constituents will
  have de minins impact to the surrounding ground water quality.
- Flow rate for drain-down fluid must be measured according to the provision of the ground water discharge amended permit to demonstrate volume of drain-down fluid remains at the design limit.
- 3. The constructed absorption drain-down field must be operated and maintained according to the approved construction permit.

It is North Lily's responsibility to notify DWQ if drain-down fluid volume or/and concentration of constituent exceed the design limit, so that the situation can be re-evaluated. No further action will be

required unless additional information discloses a ground water problem at this site originating from the heap leach facility and post closure activities. Your company remains liable for any environmental damage associated with the heap leach facility and post-closure activities.

If you have any questions, please call Beth Wondimu of this office at (801) 538-6084.

Sincerely,

UTAH WATER QUALITY BOARD

Don A. Ostler, P.E. Executive Secretary

DO:DAF:BAW:bjr

cc: Wayne Hedberg, DOGM

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Michael O. Leavitt Governor Dianne R. Nielson, Ph.D. Executive Director Don A. Ostler, P.E.

## DEPARTMENT OF ENVIRONMENTAL QUALITY DIVISION OF WATER QUALITY

288 North 1460 West P.O. Box 144870 Salt Lake City, Utah 84114-4870 (801) 538-6146 (801) 538-6016 Pax (801) 536-4414 T.D.D. www.deq.state.ut.us Web

August 23, 2001

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Ronald C. Sims, Ph.D.
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Don A. Ostler, P.E.
Executive Secretary

Mr. Stephen Flechner, President North Lily Mining Company Silver City Heap Leach 1800 Glenarm Place, Suite 210 Denver, Colorado 80202

Dear Mr. Flechner:

Subject:

Draft Amended Ground Water Discharge Permit, No. UGW230001

Enclosed is the proposed draft amended Ground Water Discharge Permit and Statement of Basis for Permit No. UGW230001.

The permit is modified mainly to incorporate post-closure monitoring requirements. This draft permit is for your review and comment. If possible please respond within 30 days. Upon an indication of your concurrence with this draft, a final draft version of the permit will be public noticed by the Executive Secretary prior to issuance.

If you have any questions, please contact Beth Wondimu at (801) 538-6084.

Sincerely,

Dennis Frederick, P.E., Manager Ground Water Protection Section

DAF:BW:bjr

Enclosures

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#### STATEMENT OF BASIS

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#### North Lily: Silver City Heap Leach Closure Permit Modification, No. UGW230001

August 18, 2001

#### Introduction

North Lily was issued a groundwater discharge permit on December 8, 1997 to cover the operation of heap leach facility closure. Due to the completion of closure of the heap leach facility, the permit is modified to incorporate new technology performance standards and requirements for post-closure monitoring.

#### **Description of Facility**

The Silver City Heap Leach facility consists of 15 acres of spent ore stacked to an average depth of 100 feet. Recovery of precious metals from the ore was terminated in October, 1995. North Lily has rinsed the ore by exposure to precipitation and by recycling drain down solutions to the heap leach. Significant reductions in initial contaminant concentrations of cyanide and other metals have been achieved.

Subsequent to the termination of operation, the facility underwent closure according to the provision of DOGM reclamation plan. The heap leach was reclaimed in December, 2000. The pad cover consists of graded and compacted subore that was ripped to a nominal depth. The top soil was seeded in accordance with Division of Oil, Gas and Mining (DOGM) reclamation requirements to establish vegetation.

#### Post Closure Fluid Management System

Drain-down fluid from the reclaimed heap leach is disposed of utilizing an absorption drainfield system. The absorption drainfield is installed west of the heap leach pad. The system is designed to transfer fluid from heap leach pad into a distribution box, that is located at the pad margin, and then to the absorption field. Construction standards for drainfield is covered under the construction permit issued on by the Executive Secretary April 5, 2001.

The technology performance standard to be achieved in this post operational permit is the operation and maintenance of the absorption drainfield as set forth in the approved construction permit. In addition, post closure fluid management for purposes of the permit is defined as: 1) Flow rate for heap leach draindown fluid will not exceed the design limit of 6.41 gallons per minute;

2) Concentrations of constituents of the drainown fluid must be *de minimis* for potential impact to the ground water quality in the vicinity.

#### Post-Closure Monitoring

The heap leach draindown fluid will be monitored for constituents listed in the permit during postclosure operation. Samples will be taken from the draindown fluid sampling port on a quarterly basis.

Flow measurement will also be conducted as part of post closure monitoring. Manual measurement of flow rate will be conducted on a weekly basis for both instantaneous and cumulative flow.

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Permit No.: UGW230001

DRAFT

# STATE OF UTAH DIVISION OF WATER QUALITY DEPARTMENT OF ENVIRONMENTAL QUALITY P.O. BOX 144870 SALT LAKE CITY, UTAH 84114-4870

#### **Ground Water Quality Discharge Permit**

In compliance with the provisions of the Utah Water Pollution Control Act, Title 19, Chapter 5, Utah Code Annotated 1953, as amended,

North Lily Mining Company Silver City Heap Leach 1800 Glenarm Place, Suite 210 Denver, Colorado 80202

is granted an amended Ground Water Quality Discharge Permit for the Silver City Heap Leach located on a tract of land in Tintic Valley with the NE1/4; Section 35, Township 10 South Range 3 West, Salt Lake Base and Meridian, Juab Co., Utah in accordance with conditions set forth herein.

This Ground Water Quality Discharge Permit supersedes all other Ground Water Discharge permits for this facility issued previously.

This modified r	permit shall become en	ffective on			
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This permit and	the authorization to	perate shall expi	ire at midnight,	<u> </u>	

Executive Secretary
Utah Water Quality Board

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#### I. SPECIFIC CONDITIONS

#### A. Ground Water Classification

Based on ground water data collected from a downgradient water supply well, ground water in the area of the facility is classified as Class IA Drinking Water Quality Ground Water.

#### B. Post Operation Discharge Minimization Technology

#### 1. Heap Leach Pad Cover

The heap leach was reclaimed in December, 2000. The pad cover consist of graded and compacted subore that was ripped to a nominal depth. The top soil was seeded in accordance with Division of Oil, Gas and Mining (DOGM) reclamation requirements to establish vegetation. At a minimum, vegetative earthen cover must be established to a density consistent with DOGM requirements.

#### 2. Post-Closure Fluid Management System

Drain-down fluid from the reclaimed heap leach is disposed of utilizing an absorption drainfield system. The absorption drainfield is installed at west of the heap leach pad. The system is designed to transfer fluid from heap leach pad to the absorption field. Construction standards for the absorption drainfield is covered under the construction permit issued by Executive Secretary on April 5, 2001.

#### 3. Performance Standards

- a. The absorption drainfield shall be maintained in operable condition such that effective leachate flow through and treatment is provided at all times;
- b. Flow rate for heap leach draindown fluid shall not exceed the design limit, 6.41 gallons per minute.
- c. Concentrations of constituents of the draindown fluid must be *de minimis* for potential impact to the ground water quality in the vicinity.

#### C. Post-Closure Compliance Monitoring Requirements

#### 1. Heap Leach Draindown Fluid Monitoring

a) Monitoring Frequency - Compliance monitoring of the heap leach draindown fluid shall be conducted by the permittee quarterly. Monitoring will be reported to the Executive Secretary as per the requirements stipulated in Part I.E.1.

#### Part I Permit No. UGW230001

- b) Analysis by Certified Laboratories draindown fluid samples shall be submitted to a laboratory certified by the State Health Laboratory for analysis.
- c) Analytical Methods methods used to analyze samples must be methods cited in UAC R317-6-6.3A(13)
- d) Analysis Parameters the following analyses will be conducted on all water samples collected:
  - 1) Field Parameters pH, temperature, and specific conductance
  - 2) Laboratory Parameters -
    - Major Anions and Cations: including chloride, sulfate, carbonate, bicarbonate, sodium, potassium, magnesium and calcium.
    - Dissolved Metals: including arsenic, barium, cadmium, chromium, copper, lead, mercury, selenium, silver and zinc.
    - Fluoride, nitrite and nitrate.
    - Weak Acid Dissociable Cyanide.
    - Cyanide Amenable to Chlorination.
- h) Sampling Port samples of draindown fluid shall be taken at the distribution box that is located at the heap leach pad margin.
- 2. Heap Leach Draindown Fluid Flow Measurement
  - a) Monitoring Frequency Manual measurement of flow rate for draindown fluid shall be conducted on a weekly basis, for both instantaneous and cumulative flow. The data will be reported on a quarterly basis in accordance with the schedule of Table 1, Part I.E.1.
  - b) Sampling Port The flow measurement shall be taken manually at the distribution box that is located at the heap leach pad margin.

#### D. Non-Compliance Status

In the event the permittee fails to maintain the Heap Leach Pad Cover and the absorption field in compliance with any of the requirements of Part I.B.3 of this permit, the permittee shall be in violation of this permit unless the affirmative defense provisions of Part III.G are satisfied. The permittee shall submit to the Executive Secretary a notification and description of the failure in accordance with Part II I.1 and 2.

#### E. Reporting Requirements

a) Post closure monitoring schedule - The sampling and analysis required in Part I.C, above, shall be reported according to Table 1, below.

Table 1 - Compliance Monitoring Reporting Schedule

Quart	<u>er</u>	Report Due On
1st	(Jan., Feb., March)	April 15
2nd	(April, May, June)	July 15
3rd	(July, Aug., Sept.)	October 15
4th	(Oct., Nov., Dec.)	January 15

- b) Sampling and Analysis Report will include:
  - 1) Field Data Sheets or copies thereof, including the field measurements, required in Part I C 1(c)(1), above, and other pertinent field data, such as: sample location, date and time, names of sampling crew, type of sampling pump or bail, measured casing volume, volume of water purged before sampling.
  - 2) Results of Sample Analysis including date sampled, date received, ion balance; and the results of analysis for each parameter, including: value or concentration, units of measurement, reporting limit (minimum detection limit for the examination), analytical method, and the date of the analysis.
  - Electronic Filing Requirements In addition to submittal of the hard copy data, above, the permittee will be required to electronically submit the required ground water monitoring data in an electronic format approved by the Executive Secretary. The data may be sent by e-mail, floppy disc, modem or other approved transmittal mechanism.

Part I Permit No. UGW230001

#### F. Compliance Schedule

Construction Plans and Specifications - Within 30 days of issuance of this permit, the permittee shall submit As-Built plans and specifications for the recently constructed absorption draindown field.

#### II. MONITORING, RECORDING AND REPORTING REQUIREMENTS

- A. <u>Representative Sampling.</u> Samples taken in compliance with the monitoring requirements established under Part I shall be representative of the monitored activity.
- B. <u>Analytical Procedures</u>. Water sample analysis must be conducted according to test procedures specified under UACR317-6.3.A.13, unless other test procedures have been specified in this permit.
- C. <u>Penalties for Tampering.</u> The Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate, any monitoring device or method required to be maintained under this permit shall, upon conviction, be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- D. Reporting of Monitoring Results. Monitoring results obtained during each reporting period specified in the permit, shall be submitted to the Executive Secretary, Utah Division of Water Quality at the following address no later than the 15th day of the month following the completed reporting period:

State of Utah
Division of Water Quality
Department of Environmental Quality
P. O. Box 144870
Salt Lake City, Utah 84114-4870
Attention: Ground Water Protection Section

- E. <u>Compliance Schedules</u>. Reports of compliance or noncompliance with, or any progress reports on interim and final requirements contained in any Compliance Schedule of this permit shall be submitted no later than 14 days following each schedule date.
- F. Additional Monitoring by the Permittee. If the permittee monitors any pollutant more frequently than required by this permit, using approved test procedures as specified in this permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted. Such increased frequency shall also be indicated.
- G. Records Contents. Records of monitoring information shall include:
  - 1. The date, exact place, and time of sampling or measurements:
  - 2. The individual(s) who performed the sampling or measurements;
  - 3. The date(s) and time(s) analyses were performed;
  - 4. The individual(s) who performed the analyses;
  - 5. The analytical techniques or methods used; and,
  - 6. The results of such analyses.
- H. Retention of Records. The permittee shall retain records of all monitoring information, including all calibration and maintenance records and copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least three years from

#### Part II Permit No. UGW230001

the date of the sample, measurement, report or application. This period may be extended by request of the Executive Secretary at any time.

#### I. Twenty-four Hour Notice of Noncompliance Reporting.

- 1. The permittee shall verbally report any noncompliance with permit conditions or limits as soon as possible, but no later than twenty-four (24) hours from the time the permittee first became aware of the circumstances. The report shall be made to the Utah Department of Environmental Quality 24 hour number, (801) 538-6333, or to the Division of Water Quality, Ground Water Protection Section at (801) 538-6146, during normal business hours (8:00 am 5:00 pm Mountain Time).
- 2. A written submission of any noncompliance with permit conditions or limits shall be provided to the Executive Secretary within five days of the time that the permittee becomes aware of the circumstances. The written submission shall contain:
  - a. A description of the noncompliance and its cause;
  - b. The period of noncompliance, including exact dates and times;
  - c. The estimated time noncompliance is expected to continue if it has not been corrected; and,
  - d. Steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance.
  - e. If necessary a proposed schedule for implementation of the Contingency Plan in accordance with Part I.D.2.
- 3. Written reports shall be submitted to the addresses in Part II D, Reporting of Monitoring Results.
- J. Other Noncompliance Reporting. Instances of noncompliance not required to be reported within 24 hours, shall be reported at the time that monitoring reports for Part II D are submitted.
- K. <u>Inspection and Entry</u>. The permittee shall allow the Executive Secretary, or an authorized representative, upon the presentation of credentials and other documents as may be required by law, to:
  - 1. Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;
  - 2. Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

#### Part II Permit No. UGW230001

- 3. Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and,
- 4. Sample or monitor at reasonable times, for the purpose of assuring permit compliance or as otherwise authorized by the Act, any substances or parameters at any location.

Page 7 of 13

#### III. COMPLIANCE RESPONSIBILITIES

- A. <u>Duty to Comply.</u> The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action; for permit termination, revocation and reissuance, or modification; or for denial of a permit renewal application. The permittee shall give advance notice to the Executive Secretary of the Utah Water Quality Board of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- B. Penalties for Violations of Permit Conditions. The Act provides that any person who violates a permit condition implementing provisions of the Act is subject to a civil penalty not to exceed \$10,000 per day of such violation. Any person who willfully or negligently violates permit conditions is subject to a fine not exceeding \$25,000 per day of violation. Any person convicted under Section 19-5-115(2) of the Act a second time shall be punished by a fine not exceeding \$50,000 per day. Nothing in this permit shall be construed to relieve the permittee of the civil or criminal penalties for noncompliance.
- C. Need to Halt or Reduce Activity not a Defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.
- D. <u>Duty to Mitigate</u>. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.
- E. Proper Operation and Maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance also includes adequate laboratory controls and quality assurance procedures. This provision requires the operation of back-up or auxiliary facilities or similar systems which are installed by a permittee only when the operation is necessary to achieve compliance with the conditions of the permit.

#### F. Bypass of Treatment Facilities

#### Definitions:

- a. "Bypass" means the intentional diversion of heap leach solutions from any portion of the treatment system or untreated flow through the system during a partial system failure.
- b. "Severe property damage" means substantial physical damage to property, damage to treatment facilities which may cause them to become inoperable, or substantial and permanent loss of natural resources which can reasonably be expected to occur in the absence of a bypass. Severe property damage does not mean economic loss caused

by delays in production.

2. Anticipated Bypass - If the permittee knows in advance of the need for a bypass, it shall submit prior notice, at least five (5) days before the date of the bypass. The notice shall include the reason(s) for the anticipated bypass, the expected length of time treatment systems will be bypassed, and a description of the measures taken to mitigate the quantities released during the bypass. Operational records shall be submitted following the anticipated bypass detailing the quantities of materials released and the levels of relevant chemical constituents in the materials released. The permittee shall limit the time period of the bypass to the minimum amount of time necessary to affect system maintenance or repairs.

The Executive Secretary may approve an anticipated bypass, after considering any potential effects, if the Executive Secretary determines that it will meet the three conditions listed in paragraph 5 below of this section.

- 3. Unanticipated Bypass The permittee shall submit notice of an unanticipated bypass as required in Part I.D.1. The permittee shall limit the time period of the bypass to the minimum amount of time necessary to affect system maintenance or repairs.
- 4. Prohibition of Bypass Bypass is prohibited and the Executive Secretary may take enforcement action against a permittee for a bypass, unless:
  - a) The bypass was unavoidable to prevent loss of life, personal injury, or severe property damage;
  - b) There were no feasible alternatives to the bypass, such as the use of auxiliary treatment facilities, retention of untreated wastes, or maintenance during normal periods of equipment downtime. This condition is not satisfied if adequate back-up equipment should have been installed in the exercise of reasonable engineering judgement to prevent a bypass which occurred during normal periods of equipment downtime or preventive maintenance; and,
  - c) The permittee submitted notices as required under Part III F.3, above.

#### G. Affirmative Defense

In the event that a compliance action is initiated against the permittee for violation of permit conditions relating to discharge minimization technology, the permittee may affirmatively defend against that action by demonstrating the following:

- I. The permittee submitted notification according to Part I.D.1 and Part II.I.1 and 2;
- 2. The failure was not intentional or caused by the permittee's negligence, either in action or in failure to act;

#### Part III Permit No. UGW230001

- 3. The permittee has taken adequate measures to meet permit conditions in a timely manner or has submitted to the Executive Secretary, for the Executive Secretary's approval, an adequate plan and schedule for meeting permit conditions; and
- 4. The provisions of 19-5-107 have not been violated.

#### IV. GENERAL REQUIREMENTS

- A. <u>Planned Changes</u>. The permittee shall give notice to the Executive Secretary as soon as possible of any planned physical alterations or additions to the permitted facility. Notice is required when the alteration or addition could significantly change the nature of the facility or increase the quantity of pollutants discharged.
- B. <u>Anticipated Noncompliance</u>. The permittee shall give advance notice of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.
- C. <u>Spill Reporting</u> The Permittee shall immediately report as per UCA 19-5-114 of the Utah Water Quality Act any spill or leakage from the tailings impoundment or associated facilities which is not totally contained by a collection system. This report shall be made to the phone numbers given in Part II 1. A written report will be required within 5 days of the occurrence and should address the requirements of UCA 19-5-114 and Part II I 2 and 3 of this permit.
- D. <u>Permit Actions</u>. This permit may be modified, revoked and reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.
- E. <u>Duty to Reapply</u>. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a permit renewal or extension. The application should be submitted at least 180 days before the expiration date of this permit.
- F. <u>Duty to Provide Information</u>. The permittee shall furnish to the Executive Secretary, within a reasonable time, any information which the Executive Secretary may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with this permit. The permittee shall also furnish to the Executive Secretary, upon request, copies of records required to be kept by this permit.
- G. Other Information. When the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application or any report to the Executive Secretary, it shall promptly submit such facts or information.
- H. <u>Signatory Requirements</u>. All applications, reports or information submitted to the Executive Secretary shall be signed and certified.
  - 1. All permit applications shall be signed as follows:
    - a. For a corporation: by a responsible corporate officer;
    - b. For a partnership or sole proprietorship: by a general partner or the proprietor, respectively.

- c. For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.
- 2. All reports required by the permit and other information requested by the Executive Secretary shall be signed by a person described above or by a duly authorized representative of that person. A person is a duly authorized representative only if:
  - a. The authorization is made in writing by a person described above and submitted to the Executive Secretary, and,
  - b. The authorization specifies either an individual or a position having responsibility for the overall operation of the regulated facility or activity, such as the position of plant manager, operator of a well or a well field, superintendent, position of equivalent responsibility, or an individual or position having overall responsibility for environmental matters for the company. (A duly authorized representative may thus be either a named individual or any individual occupying a named position.)
- 3. Changes to Authorization. If an authorization under Part IV H 2. is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of Part IV H 2. must be submitted to the Executive Secretary prior to or together with any reports, information, or applications to be signed by an authorized representative.
- 4. Certification. Any person signing a document under this section shall make the following certification:

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations."

- I. Penalties for Falsification of Reports. The Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit, including monitoring reports or reports of compliance or noncompliance shall, upon conviction be punished by a fine of not more than \$10,000 per violation, or by imprisonment for not more than six months per violation, or by both.
- J. Availability of Reports. Except for data determined to be confidential by the permittee, all reports prepared in accordance with the terms of this permit shall be available for public inspection at the offices of the Executive Secretary. As required by the Act, permit applications, permits, effluent data, and ground water quality data shall not be considered confidential.

- K. <u>Property Rights.</u> The issuance of this permit does not convey any property rights of any sort, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of federal, state or local laws or regulations.
- L. <u>Severability</u>. The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstances, and the remainder of this permit, shall not be affected thereby.
- M. <u>Transfers</u>. This permit may be automatically transferred to a new permittee if:
  - 1. The current permittee notifies the Executive Secretary at least 30 days in advance of the proposed transfer date;
  - 2. The notice includes a written agreement between the existing and new permittee containing a specific date for transfer of permit responsibility, coverage, and liability between them; and.
  - 3. The Executive Secretary does not notify the existing permittee and the proposed new permittee of his or her intent to modify, or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement as described in Part IV.M.2, above.
- N. State Laws. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, penalties established pursuant to any applicable state law or regulation under authority preserved by Section 19-5-117 of the Act.
- O. Reopener Provisions. This permit may be reopened and modified pursuant to R317-6-6.6.B or R317-6-6.10.C to include the appropriate limitations and compliance schedule, if necessary.

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