SOUTH JORDAN EVAPORATION PONDS SITE
POND SEDIMENTS REMOVAL PROJECT

POST REMOVAL SAMPLING AND ANALYSIS REPORT

Prepared by:
North American Mines Services
For:
Kennecott Land Company

April 5, 2007

File in:
☐ Confidential
☑ Shelf
☐ Expandable
Refer to Record No 0012 Date 4-10-07
In M/035/003, 2007, Incoming
For additional information

Appendix B

Chain-of-Custody Forms

RECEIVED
APR 1 0 2007
DIV. OF OIL, GAS & MINING

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	Evap Ponds - Sunrise (Daybrook)	PO#	COC#

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AL22978	EPX-1	9/12/03	11:55	1								As, Pb - Totals
22979	EPX-2	↓	12:12	1								pH
980	EPX-3	↓	12:20	1								
981	EPX-4	↓	12:29	1								
982	EPX-5	↓	12:49	1								

SAMPLER'S SIGNATURE: Ed Arbon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Ed Arbon RECEIVED BY: J Hardman DATE/TIME 9/12/03 3:40

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-In Group No. 76 0087

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AL25174	EPX - 6	10/9/03	11:45	1							- Total As, Pb
2	175	EPX - 7	"	11:55	1							- pH
3	176	EPX - 8	"	12:05	1							
4	177	EPX - 9	"	12:10	1							
5	178	EPX - 10	"	12:15	1							
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Ed Archer **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: [illegible] Date/Time: 10/10/03 4:00pM
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4266

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AL26991	EPX-11	11/5/03	10:15	1								Total As, Pb, + pH
992	EPX-12	-"-	10:22	1								
993	EPX-13	-"-	10:30	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 11/5/03 4:30 PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-In Group No. 1 2717

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AL27244	EPX-14	11/07	9:20								As, Pb - Total
2	245	EPX-15	-"-	9:30								pH
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Edd Arden **Telephone #** _____ **Fax #** _____
Report Results to : Ethel Arden **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: J Hardman Date/Time: 11/1/03 09:10
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4139

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AL27883	EPX-16	11/11/03	12:00	1								pH + As, Pb Totals
884	EPX-17	11/12/03	9:20	1								
885	EPX-18	"	9:30	1								

SAMPLER'S SIGNATURE: Edd Arnson LAB SUBMITTED TO:

REPORT RESULTS TO: Edward PHONE#: FAX #:

SURRENDERED BY: Edd Arnson RECEIVED BY: [illegible] DATE/TIME 11/17/03 4:30PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 11261435 | COC# 4140

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AL25593	EPX-19	11/21/03	13:00	1								As, Pb Totals & pH
594	EPX-20	"	13:10	1								
												* split samples EPX-13, ~~EPX-8~~ EPX-19
												310031

SAMPLER'S SIGNATURE: Ehd Ardon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Ehd Ardon RECEIVED BY: J B Hardman DATE/TIME 11/26/03 14:05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

1/1

1207 11

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4141

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AL29371	EPx-21	12/1/03	11:30	1								Total As, Pb
372	EPx-22	12/2/03	14:30	1								pH
373	EPx-23	12/3/03	15:00	1								
374	EPx-24	12/4/03	14:00	1								

SAMPLER'S SIGNATURE: Eld Arden LAB SUBMITTED TO:

REPORT RESULTS TO: Eland PHONE #: FAX #

SURRENDERED BY: Eld Arden RECEIVED BY: J Hutchenson DATE/TIME 12/9/03 11:15 AM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0105 1140

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4143

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM00169	EPX-25	12-18-03	1:00	1								Total As, Pb
170	EPX-26	12-24-03	11:50	1								pH, Cond
												Total & Soluble SO4

SAMPLER'S SIGNATURE: Eld Arlon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Eld Arlon RECEIVED BY: AEH DATE/TIME 1/5/04

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-in Group No. C 71011

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	A01067	EPX - 27	1/9/04	12:00								pH, EC
2	01068	EPX - 28	1/14/04	2:30								Pb, As Totals
3	01069	EPX - 29	1/14/04	2:45								S - Total & Sol.
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Earl Anton **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: J B Hardman Date/Time: 1/16/04 15:35
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

Log-in Group No. 02 2855

KENNECOTT
ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AM027166	EPX-27 (AM01067)	1/9/04									As, Pb Rerun
2												
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												EA-310031-TML

Sample Submitted by: Ehud Ardon **Telephone #** _____ **Fax #** _____

Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: J B Hardman Date/Time: 2/10/04

Surrendered By: _____ Received By: _____ Date/Time: _____

Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds 01291011		4146

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM018160	EPX-30	1/29/04	12:30	1								Pb, As, - Total
												Sulfate - Total, Sol.
												pH, EC

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: RECEIVED BY: J. Hardman DATE/TIME 1/29/04 8:35

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 02110848 | COC# 4142

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM02883	EPX-31	2-10-04	13:45	1 →	Not Analyzed							Total As, Pb
84	EPX-32	-"-	13:50	1								pH, EC
85	EPX-33	-"-	14:00	1								Total | Sol S
86	EPX-34	-"-	14:10	1								
87	EPX-35	-"-	14:30	1								
												Rush 48 hr
												split sample EPX-33

SAMPLER'S SIGNATURE: Ed Archon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Ed Archon RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4148

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM03360	EPX-31	2-18-04	11:15	1								As Pb, S - Totals
												pH, EC
												Sol. S
												Rush 24 hrs

SAMPLER'S SIGNATURE: Ehl Arlon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehrd PHONE #: FAX #

SURRENDERED BY: Ehl Arlon RECEIVED BY: Melissa Olse DATE/TIME 02-18-04

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

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KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4149

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM03357	EPX-36	2-18-04	10:45	1								pH, Ec
358	EPX-37	"	10:55	1								As, Pb - Total
359	EPX-38	"	11:00	1								S - Total / Sol.
												Rush 24 hrs.

SAMPLER'S SIGNATURE: Eli Arlon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Eli Arlon RECEIVED BY: M. Olsa DATE/TIME 02-18-04

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Bastian Sink | PO# 02260954 | COC# 4150

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM03921	BSX-15A	2-22-04	12:10	1	3	EA	-300013-TML					Total As, Pb
922	BSX-17A	-11-	12:00	1	3							pH, EC
923	EPX-39	2-25-04	11:50	1	EA		-310031-TML					Total As, Pb, S
												pH, EC
												Soluble S

SAMPLER'S SIGNATURE: Ethel Arston LAB SUBMITTED TO:

REPORT RESULTS TO: Ethel PHONE #: 253 2081 FAX #

SURRENDERED BY: Ethel Arston RECEIVED BY: J Bardman DATE/TIME 2/26/04 09:48

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4151

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM05105	EPX-40	3.10.04	12:30	1								As Pb, Total
106	EPX-41	3-12-04	13:00	1								pH EC
												Soluble & Total Sulfate

SAMPLER'S SIGNATURE: Ehud Arden LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud PHONE #: FAX #

SURRENDERED BY: Ehud Arden RECEIVED BY: Hutchinson DATE/TIME 3/12/04 4:00pM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4154

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM07661	EPX-42	4/13/04	1:30	1								Total As, Pb
652	EPX-43	-11-	1:40	1								pH, EC
653	EPX-44	-11-	1:45	1								Total & Soluble S
654	EPX-45	-11-	1:50	1								
												Split EPX-45

SAMPLER'S SIGNATURE: Ell Arden LAB SUBMITTED TO:

REPORT RESULTS TO: EHWD PHONE #: FAX #

SURRENDERED BY: Ell Arden RECEIVED BY: Jamma B Hardman DATE/TIME 4/14/04 10:00am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

UT 080456

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		41[illegible]

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM08602	EPX-46	4/22/04	2:30	1								As, Pb Total
												pH, EC
												Total & Soluble S
												Please Split EPX-46

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO:

REPORT RESULTS TO: Ehud Ardon PHONE #: FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Hutchenson DATE/TIME 4/28/04 8:30AM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4157

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM09246	EPX-47	5/6/04	11:00	1								As, Pb Totals
247	EPX-48	"	11:10	1								S - Sol./Total
248	EPX-49	"	11:15	1								pH, EC
249	EPX-50	"	11:20	1								
250	EPX-51	"	11:25	1								
251	EPX-52	"	11:30	1								

SAMPLER'S SIGNATURE: Ell Ardon LAB SUBMITTED TO:

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Xiaoli DATE/TIME 5.6.04 / 2:50

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
~~EPX~~ Evap Ponds		4267

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM09937	EPX-53	5/14/04	11:05	1								As, Pb - Total
938	EPX-54	-"-	11:15	1								S - Sol., Total
												pH, EC

SAMPLER'S SIGNATURE: Ell Arbon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHLED ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ell Arbon RECEIVED BY: J B Hardman DATE/TIME 5/14/04 12:15

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

060 703

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4269

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM01087	EPX-55	5/26/04	12:00	1								pH, EC
088	EPX-56	↓	12:15	1								Total As, Pb
089	EPX-57		12:25	1								Sulfate - T.T. / Soluble
090	EPX-58		12:30	1								
091	EPX-59		12:35	1								

SAMPLER'S SIGNATURE: EM Archer LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EMWD PHONE #: 253 2081 FAX #

SURRENDERED BY: EM Archer RECEIVED BY: JB Hardman DATE/TIME 5/28/04 11:50

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds	06080812	4270

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM11779	EPX-60	6/7/04	11:00	1								Pb, As, Totals
80	EPX-61	-"-	11:10	1								S - Soluble / Total
												pH, EC
												30003

SAMPLER'S SIGNATURE: Eld Arden LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHLD PHONE #: 253 2081 FAX #:

SURRENDERED BY: Eld Arden RECEIVED BY: [illegible] DATE/TIME 6/7/04 4:00pM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 06210641 | COC# 4271

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM12859	EPX-62	6/16/04	12:30	1								As, Pb Totals
												S- Soluble/ Total
												pH, EC
												EA -310031 - TAL

SAMPLER'S SIGNATURE: Ell Arden LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Arden PHONE #: FAX #

SURRENDERED BY: Ell Arden RECEIVED BY: Hutchinson DATE/TIME 6/18/04 14:40

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4275

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM16097	EPX-63	7/29/04	9:30	1								pH, EC
098	EPX-64	-"-	9:40	1								Total metals As Pb
099	EPX-65	-"-	9:50	1								Total/soluble Sulfate

SAMPLER'S SIGNATURE: Ehud Ardon — LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON — PHONE #: 253-2081 — FAX #:

SURRENDERED BY: Ehud Ardon — RECEIVED BY: Hutchinson — DATE/TIME 7/29/04 5:00pM

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4276

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM16379	EPX-66	8/4/04	9:00	1								Total metal As, Pb
380	EPX-67	"	9:10	1								pH, EC
381	EPX-68	"	9:20	1								Total / Soluble Sulfate
382	EP-CS1	"	9:25	1								
383	EP CS2	"	9:30	1								please Rush 24 hrs

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 8/5/04 10:15

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

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PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4277

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM17548	EPX-69	8/26/04	11:50	1								As, Pb, - Totals
549	EPX-70		12:00	1								pH, EC
550	EPX-71		12:10	1								Total & Soluble Sulfate
551	EPX-72		12:20	1								
552	EPX-73		12:30	1								
553	EPX-74		12:50	1								
554	EPX-75		13:00	1								
555	EPX-76		13:10	1								

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Arden PHONE #: FAX #

SURRENDERED BY: [signature] RECEIVED BY: Adam Hutchins DATE/TIME 8/26/04

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4279

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM18859	EPX-77	9/20/04	13:00	1								pH, EC
860	EPX-78		13:07	1								Total As, Pb
861	EPX-79		13:15	1								Total & Soluble Sulfate
862	EPX-80		13:23	1								
863	EPX-81		13:30	1								
864	EPX-82		13:35	1								

SAMPLER'S SIGNATURE: Ehd Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Chad Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehd Ardon RECEIVED BY: [illegible] DATE/TIME 9/20/04 4:20PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4282

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AU19458	FPX-83	9/28/04	13:45	1								pH EC Total As Pb Total/Soluble Sulfate

SAMPLER'S SIGNATURE: Elud Ardor LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Elud Ardor PHONE #: 253-2081 FAX #:

SURRENDERED BY: Elud Ardor RECEIVED BY: [illegible] DATE/TIME [illegible]

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 10150713 | COC# 4284

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM20313	EPX-84	10/14/04	15:10	1								pH, EC
314	EPX-85	↓	15:15	1								As, Pb - Totals
315	EPX-86		15:20	1								Sulfate - Total, Soluble
316	EPX-87		15:25	1								
317	EPX-88		15:30	1								
318	EPX-89		15:35	1								
~~—~~	~~[illegible]~~	↓	~~[illegible]~~									

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KGL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 10/15/04 06:55am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Pond | PO# 10150709 | COC# 4285

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
AM203306	EPZ1.1	10/14/04	15:42	1								As, Pb Totals
307	EPZ1.2	↓	15:44	1								pH EC
308	EPZ2		15:45	1								Total / soluble sulfate
309	EPZ3.1		15:50	1								
310	EPZ3.2		15:52	1								
311	EPX-90		15:40									please Rush
312	AC1014		14:50	1								
												Ehud would like these samples today 10/15/04

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 10/15/04 06:55am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4286

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
	EPX-91	11/15/04	13:50	1								Total As, Pb
	EP 11/15 04-1	"	14:00	1								Total & Soluble SO_4
	EP 11/15 04-2	"	14:10	1								pH, EC
												Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253 2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME [illegible]

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4288

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM22134	EPX-91A	11/18/04	15:00	1								As, Pb - Total
135	EPX-92	-"-	15:10	1								pH, EC
136	EPX-93	-"-	15:20	1								Total / Soluble Sulfate

SAMPLER'S SIGNATURE: Elud Arbon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Elud Arbon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Elud Arbon RECEIVED BY: Ann Hutchinson DATE/TIME 11/18/04 5:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4289

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM22352	EPX 94	11/23/04	15:00	1								As, Pb
353	EPX 95	↓	1510	1								pH, EC
354	EPX 96		1515	1								Total | Sol Sulfate
AM22355	EPX-97		1520	1								
												SO_4-SLD
												SO_4-LEA

SAMPLER'S SIGNATURE: Edd Arton LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Edward Arton PHONE #: FAX #

SURRENDERED BY: Edd Arton RECEIVED BY: Hutchenson DATE/TIME 11/23/04 4:30 pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4290

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM22688	EPX-91BS	11/30/04	15:00	1								As, Pb Totals
689	EPX-91BN	-"-	15:05	1								pH EC
690	EPX-98	-"-	15:15	1								
	~~EP~~											Total/soluble Sulfate
691	EP113004-1	-"-	14:55	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Hutchinson DATE/TIME 12/1/04 4:30 pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

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KENNE[illegible]T UTAH COPPER CORPORATION **CHAIN OF [illegible]TODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC R[illegible]RCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4291

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM22899	EP120604-1	12/6/04	14:40	1								As, Pb
900	EP120604-2	-"-	14:50	1								pH, EC
901	EP120604-3	"	14:55	1								Total / Soluble Sulfate
902	EPX-99	-"-	15:00	1								

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 12/6/04 4:00PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: 12161251 | COC#: 4292

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM23451	EPX-100	12/15/04	12:15	1								As, Pb - Totals
52	EPX-101	↓	12:25	1								pH, EC
53	EPX-102	↓	12:35	1								Total / Soluble Sulfate
54	EPX-103	↓	12:50	1								
55	EPX-91C	↓	13:00	1								
												310031

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EDWARD ARDON PHONE #: 283-2081 FAX #:

SURRENDERED BY: Ed Ardon RECEIVED BY: Phelesse DATE/TIME 12/16/04, 10:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4293

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM23745	EPX-94A	12-22-04	15:10	1								As, Pb - Totals
746	EPX-98C	-11-	15:20	1								pH, EC
747	EPX-104	-11-	15:30	1								Total & Soluble Sulfate
748	EPX-105	-11-	15:40	1								
												by Tuesday PM

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253. 2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: DATE/TIME 12/23/04, 12:30

SURRENDERED BY: M. Olsen RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-in Group No. 211607

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

Evap Ponds

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AN01052	EPX-106	1/18/04	13:00								As, Pb, - Totals
2	053	EPX-107	"	13:10								pH EC
3	054	EPX-108	"	14:00								Total / Soluble Sulfate
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Ehud Arlon **Telephone #** 253-2081 **Fax #** _____
Report Results to : Ehud Arlon **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: [signature] Date/Time: 1/20/05 4:30pm
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

01311 31

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4294

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN01531	EPX-109	1/28/05	14:00	1								pH, EC
532	EPX-110	-11-	14:05	1								Total metals As, Pb
533	EPX-111	-11-	14:15	1								Total & Soluble Sulfate

SAMPLER'S SIGNATURE: Ell Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ell Ardon RECEIVED BY: Adam Hutchinson DATE/TIME 1/28/05 3:51

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

02 3824

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4295

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
4N02138	EPX-112	2/10/04	(16:00)	1								As, Pb, Totals
												Total / soluble Sulfate
												EC, pH

SAMPLER'S SIGNATURE: Elad Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #

SURRENDERED BY: Elad Ardon RECEIVED BY: [illegible] DATE/TIME 2/10/05 5:00PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

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KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4296

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN03406	EPX-113	3/2/05	13:50	1								As, Pb, -Total
407	EPX-114	↓	14:00	1								pH, GC
408	EPX-115		14:10	1								Total / soluble Sulfate
409	EPX-116		14:20	1								

SAMPLER'S SIGNATURE: Elad Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Elad Ardon RECEIVED BY: AEH DATE/TIME 3/3/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

03031 2

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4297

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN03410	EPX-117	3/3/05	12:00	1								As, Pb
												pH, EC
												Total / soluble Sulfate
												Rush

SAMPLER'S SIGNATURE: Eld Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EMILIO ARDON PHONE #: FAX #

SURRENDERED BY: Eld Ardon RECEIVED BY: AKH DATE/TIME 3/3/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

U50 026

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4298

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A503808	EPX-118	3/8/05	12:20	1								As, Pb Totals
809	EPX-119	-"-	12:30	1								pH, EC
				#								Total/Soluble Sulfate
810	EP030805	3/8/05	13:00	1								
												Rush
												EP 030805 - Total As, Pb only

SAMPLER'S SIGNATURE: Ehud Arbon LAB SUBMITTED TO: IAEL

REPORT RESULTS TO: EHUD ARBON PHONE #: FAX #:

SURRENDERED BY: Ehud Arbon RECEIVED BY: Adam Hitch DATE/TIME 3/9/05 10:10

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

05151 3

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4299

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A03948	EPX-120	3/14/05	12:10	1								As, Pb Totals
949	EPX-121	-"	12:15	1								Total | soluble Sulfate
												pH, EC

SAMPLER'S SIGNATURE: EM Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: EM Ardon RECEIVED BY: Hutchinson DATE/TIME 3/14/05 2:30pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

031800

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4300

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN04225	EPX-122	3/17/05	(15:00)	1								As, Pb Totals
												EC, pH
												Total / Soluble Sulfate

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: GHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ed Ardon RECEIVED BY: Adam Hutchins DATE/TIME 3/18/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0331 7

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4302

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A1004904	EPX-123	3/30/05	14:20	1								Total As, Pb
905	EPX-124	-"-	14:30	1								pH, EC
906	EPX-125	-"-	14:40	1								Total/soluble Sulfate

RUSH

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: ADAM Hutchinson DATE/TIME 3/31/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

C 71430

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4303

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN05294	EPX-124A	4/6/05	16:30	1								• As, Pb
295	EPX-125A	-"-	16:40	1								• pH, Ec
												Total / Soluble Sulfate
												Rush

SAMPLER'S SIGNATURE: Eli Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Efrad Ardon PHONE #: FAX #:

SURRENDERED BY: Eli Ardon RECEIVED BY: J Hardman DATE/TIME 4/7/05 11:45 am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0565-20

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4308

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN06870	EPX-121A	4/28/05	15:00	1								As Pb - Totals
871	EPX-126	-"-	15:10	1								pH, EC
												Total/Soluble Sulfate
872	EP04728.05	-"-	15:20	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253 2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: AKH DATE/TIME 5/2/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

05) 839

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4309

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A007415	EPX-127	5/5/05	1530	1								As, Pb - Totals
416	EPX-128	"	1535	1								pH, EC
												Total / Soluble Sulfate

SAMPLER'S SIGNATURE: Elm Arden LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253 2081 FAX #:

SURRENDERED BY: Elm Arden RECEIVED BY: [illegible] DATE/TIME 5/9/05 4:30 p.m.

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

05 08831

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4310

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN08301	EPX-121B	5-18-05	15:00	1								As Pb Totals
302	EPX-129	-"-	15:10	1								pH, EC
303	EPX-130	-"-	15:20	1								Total / soluble Sulfate

SAMPLER'S SIGNATURE: Elad Arden LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Elad Arden PHONE #: 253.2081 FAX #:

SURRENDERED BY: Elad Arden RECEIVED BY: [illegible] DATE/TIME 5/20/05 1:30pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

C 50912

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4315

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN0891Z	EPX-131	6/2/05	12:30	1								As, Pb - Totals
												pH, EC
												Total / soluble Sulfate

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 6/3/05 9:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0507 185838

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds. | PO#: | COC#: 4316

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN11055	EPX-132	6/30/05	10:15	1								As, Pb - Totals
056	EPX-133	-"-	10:20	1								Total/soluble Sulfate
057	EPX-134	-"-	10:25	1								pH, EC
058	EPX-135	-"-	10:30	1								
059	EPX-136	-"-	10:35	1								
060	EPX-137	-"-	10:40	1								
061	EPX-138	-"-	10:45	1								

SAMPLER'S SIGNATURE: Elli Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #:

SURRENDERED BY: Elli Ardon RECEIVED BY: [illegible] DATE/TIME 7/1/05 11:30

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0507 1+0424

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#:

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
AN12253	EPX-135A	7/20/07	12:45	1								As Pb - Totals
												off
												Total / soluble Sulfate
												Rush

SAMPLER'S SIGNATURE: Ed Ardon — LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ethel Ardon — PHONE #: 253 2081 — FAX #:

SURRENDERED BY: Ed Ardon — RECEIVED BY: Hutchinson — DATE/TIME 7/21/05 4:30 PM

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES — YELLOW COPY: EEPG — PINK COPY: SAMPLER

0508 1152531

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AD13482	EPX-139	8/9/05	12:00	1								As Pb- Totals
483	EPX-140	-"-	12:05	1								pH EC
484	EPX-141	-"-	12:10	1								Total / soluble Sulfate
												Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 8/9/05 14:48 pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME Evap Ponds PO# 050823123236 COC# 4320

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN 14359	EPX-142	8/22/05	15:00	1								As, Pb - Totals
100	EPX-143	↓	15:05	1								pH, EC
101	EPX-144	↓	15:10	1								Total Soluble Sulfate
												310031

SAMPLER'S SIGNATURE: Eld Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EMILIO ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Eld Ardon RECEIVED BY: [signature] DATE/TIME 8/23/05 11:45

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evep Pads

PO# 050920161221 COC# 4322

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN16061	EPX-139A	9/20/05	12:00	1								~~As, Pb~~ Total RCRA8-Hg
62	EPX-140A	-"-	12:05	1								~~P~~ pH EC
63	EPX-144A	9/19/05	15:20	1								Total / soluble Sulfate
64	EPX-145	-"-	15:25	1								
65	EPX-146	-"-	15:30	1								
66	EPX-147	-"-	15:35	1								
67	EPX-148	-"-	15:40	1								
	~~EPX-14~~	-"-										Rush
68	EPLP144N	-"-	15:45	1								
												310031

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: ~~EHUD~~ A KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 9/20/05 1:50pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: ~~EPX~~ Evap Ponds | PO#: | COC# 4325

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN16583	EPX-149	9/26/05	12:15	1								RCRA 8 metals - Total (-Hg)
584	EPX-150	-"-	12:20	1								Total/Soluble Sulfate
585	EPX-151	-"-	12:25	1								pH, EC
AN16586	EPX-152	-"-	12:30	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Michael Ostola DATE/TIME 9/27/05 4:00 pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds

PO# 0510041084245 COC# 4326

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN16890	EPA-153	9/30/05	14:50	1								RCRA 8 metals - Hg
91	EPA-154	-"-	14:55	1								Total / soluble Sulfate
92	EPA-155	-"-	15:00	1								pH, EC
												Rush
												310031

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 10/3/05 15:55

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 0510121650035 | COC# 4327

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN17526	EPX-156	10/12/05	13:45									Total metals RCRA8 (-Hg)
27	EPX-157	-"-	13:50									Total Soluble Sulfate
												EC, plt 310031
28	EPCS-GPB.1	-"-	14:00									
29	EPCS-GPB.2	-"-	14:05									Total As, Pb
30	EPCS-GPB.3	-"-	14:10									
												Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: J Hardman DATE/TIME 10/12/05 15:50

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4328

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AU18465	EPX-158	10/28/05	15:10	1								Total RCRA-8 (-Hg)
66	EPX-159	-"-	15:15	1								Total/Soluble Sulfate
67	EPX-160	-"-	15:20	1								pH, EC
68	EPX-161	-"-	15:25	1								
												Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: AEL

REPORT RESULTS TO: EHUD ARDON PHONE#: 283 2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 10/26/05 13:55

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0511051B 7

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4330

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
AN18948	EPX-159A	11/2/05	15:40	1								RCRA 8 (-Hg) Total
49	EPX-161A	-"-	15:45	1								pH Ec
												Total/soluble Sulfate
AN18950	EPX-162	11/1/05	12:00	1								SO_4-sol SO_4-lea
51	EPX-163	-"-	12:05	1								
52	EPX-164	-"-	15:00	1								Rush
AN18953	EPX-165	-"-	15:10	1								
												* please split samples
												EPX-161 & EPX-159
												(samples brought in last
												week)
												AN18468 AN18466

SAMPLER'S SIGNATURE: Ellen Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ellen Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ellen Ardon RECEIVED BY: Vance Fell DATE/TIME 11/3/02 7:45

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

05110913 1

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4331

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AU19374	EPX159SE	11/7/05	14:00	1								Total As, Pb
75	EPX159SW	-"-	14:05	1								
76	EPX159NE	-"-	14:10	1								
AU19377	EPX159NW	-"-	14:15	1								
												Please Rush

SAMPLER'S SIGNATURE: EM Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EMMO ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: EM Ardon RECEIVED BY: Michael O'Toole DATE/TIME 11/7/05 4:30 pm.

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4335

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN20045	EPX-159B	11/21/05	15:00	1								Total RCRA 8 (Hg), Tot/Sol
												Sulfate, EC, pH
AN20046	GP 12-1.1	11/22/05	14:30	1								
" 47	GP 12-1.2	-"-	14:32	1								Total As, Pb,
" 48	GP 12-1.3	-"-	14:34	1								pH
												EA-310001-TML

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Vince Kell DATE/TIME 11/23/05 07:57

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0511031625

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4332

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
AN18943	EPX-166	11/3/05	11:00	1								RCRA 8 (-Hg) Total
44	EPX-167	-"-	11:05	1								Total |Soluble Sulfate
												pH, EC
945	EPCS110305.1	-"-	11:20	1								
46	EPCS110305.2	-"-	11:22	1								Total As, Pb
AN18947	EPCS110305.3	-"-	11:24	1								
												Rush
												EA-310021-TMC TOTMET

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: IEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253.2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 11/3/05 4:00pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4333

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
	~~EPX-154B~~	~~11/19/05~~	~~16:40~~	~~1~~								Total RCRA 8 (-Hg)
AN9875	EPX-162A	-11- 11/17/05	10:00	1								pH, EC
19876	EPX-169	-11-	10:05	1								(Total / Soluble Sulfate)
19877	EPX-169	-11-	10:10	1								(SO4-SLD / SO4-tot)
19878	EPX-170	-11-	16:00	1								@ T1, @ Mine 1
19879	EPX-171	-11-	16:10	1								-Prepare
19880	EPX-172	-11-	16:15	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 11/18/05 10:19

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

LOG IN GROUP 312201911S

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4336

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN21762	EPX-173	12/22/05	15:30	1								RCRA 8 (-Hg) Total
AN21763	EPX-174		15:35	1								pH, EC
AN21764	EPX-175		15:40	1								Total \ soluble Sulfate
AN21765	EPX-176		15:45	1								
AN21766	EPX-177		15:50	1								
												EA - 310001 - TML

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ed Ardon RECEIVED BY: [signature] DATE/TIME 12/23/05 @ 13:36

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4337

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A000301	EPX-178	1/6/06	14:00	1								Total metals RCRA 8 (-Hg) pH, EC Total \ Soluble Sulfate
A000302	BSF01	1/6/06	13:40									Total metals RCRA 8 (-Hg) pH, EC
A000303	BSF02	-"-	13:45									
A000304	EP010606.1	1/6/06	14:05									Total As, Pb
A000305	EP010606.2	-"-	14:10									

SAMPLER'S SIGNATURE: Ehud Ardon — LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON — PHONE #: 253 2081 — FAX #:

SURRENDERED BY: Ehud Ardon — RECEIVED BY: Hutchinson — DATE/TIME 1/6/06 3:50

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES — YELLOW COPY: EEPG — PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4339

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A001243	EPX-179	1/24/06	14:45	1								Total As, Pb, Cd
" " 1244	EPX-180	-"-	14:50	1								pH, EC
												Total & Soluble Sulfate
A001245	EPCS0124.1	1/24/06	15:00	1								Total As, Pb
" " 1246	EPCS0124.2	-"-	15:05	1								
												Rush
												EA -310031-TML

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: ADAM Hutchinson DATE/TIME 1/24/05 16:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

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KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4342

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A002838	EPX-18cA	2/3/06	13:00	1								Total As, Pb, Cd
2839	EPX-181		13:45	1								pH, EC
2840	EPX-182		13:50	1								Total/Soluble Sulfate
2841	EPX-183		13:55	1								
												EA-310031 TML

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 02/06/06 12:42

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4343

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A003330	EPX-184	2/13/06	14:30	1								Total As Pb, Cu
												pH EC
												Total / Soluble Sulfate

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Hutchinson DATE/TIME 2/13/06 4:30

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME Evap Ponds PO# COC# 4341

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A003400	EPX - 185	2/14/06	14:00	1								Total As, Pb, Cd
A003401	EPX - 186	-"-	14:10	1								pH, EC
												Total & Soluble Sulfate

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 2/15/06 11:29

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Login Group . 0002210 (3)

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4344

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A003995	EPX-186A	2/23/06	16:00	1								As Pb Cd - Total
3996	EPX-187	↓	16:05	1								pH, EC
3997	EPX-188	↓	16:10	1								Total / Soluble Sulfate
3998	EPX-189	↓	16:15	1								
												please Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 2/27/06

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Reg 1h Group: 060[illegible]7072710

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME | PO# | COC# 4346

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A005679	EP03230[illegible]1	3/23/06	15:00	1								Total As, Pb, Cd
5680	EP03230[illegible]2	-11-	15:02	1								pH, EC
	EPX-185A											
5681	BSF-3	3/23/06	15:30	1								Rush
5682	BSF-4	-11-	15:32	1								
												EH-310031-7M2

SAMPLER'S SIGNATURE: Edd Ardon LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EDDD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Edd Ardon RECEIVED BY: [signature] DATE/TIME

SURRENDERED BY: RECEIVED BY: [signature] DATE/TIME 4/15/PM 3/24/06

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Key in Group 0051113334

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4345

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A005384	EPX-190	3/16/06	15:50	1								Total As, Pb, Cd
5385	EPX-191	-"-	15:55	1								pH, EC
5386	EPX-192	-"-	16:00	1								Total / soluble Sulfate

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: WEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 3/17/06 3:05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4348

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A006491	EPX-193	4/3/06	14:00	1								Total metal RCRA 8 (-Hg
6492	EPX-194	-"-	14:05	1								Total & Soluble Sulfate
6493	EPX-195	-"-	14:10	1								pH, EC
6494	EPX-196	-"-	14:15	1								
6495	EPX-197	-"-	14:20	1								
6496	EPX-198	-"-	14:25	1								

SAMPLER'S SIGNATURE: Edd Arden LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Edward Arden PHONE #: 253 208 FAX #

SURRENDERED BY: Edd Arden RECEIVED BY: [illegible] DATE/TIME 04-05-06, 1510

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENN[illegible]OTT UTAH COPPER CORPORATION CHAIN OF [illegible]STODY

Log In Group: 06041142744 Page 20[illegible]

ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4350

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A006630	EPX-1e,0A	4/11/06	11:20	1								AS, Pb, Cd, -Totals
6631	EPX-1e,9	-"-	11:30	1								pH, EC
												Total & Soluble
												Sulfate

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253 7081 FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 04/11/06, 1404

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Login 060505107 37

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4352

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A007880	EPX-200	5/3/05	15:00	1								Total As, Cd, Pb
7881	EPX-201	-"-	15:05	1								pH EC
7882	EPX-202	-"-	15:10	1								Total & Soluble Sulfate
7883	EPX-203	-"-	15:5	1								

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: [illegible]

REPORT RESULTS TO: Enid Ardon PHONE #: 25[illegible] 2081 FAX #:

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 5/3/06 16:30

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

change EA -310031-TML

Log-in Group No. 06 25105034

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

Sheet Request No. Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	A09014	EPY-203-A	5/24/06	15:00								Total As, Pb, Cd
2	9015	EPX-204	-11-	15:05								
3	9016	EPX-205	-11-	15:10								pH EC
4	A09017	EPX-206	-11-	15:15								Total/soluble Sulfate
5												
6												
7												
8												
9												Rush
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Ehud Ardon **Telephone #** _____ **Fax #** _____
Report Results to : EHUD ARDON **Telephone #** 953-2081 **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: Melissa Received By: Melissa Olsen Date/Time: 05/25/06
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

FA-31A001-TML

Log 000608114 3
sheet 2 of 4

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# **4356**

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A009924	EPX-209	6/7/06	7:00	1								Total As, Pb, Cd
A009925	EPX-208	— "	7:05	1								pH, EC
												Total & Soluble Sulfate

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 6/7/06 4:45 PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge: EA-310005-TML

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KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# **4359**

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A010358	EPX-207A	6/14/06	14:10	1								Total As, Pb, Cd
10359	EPX-209	↓	14:15	1								Total & Soluble Sulfate
10360	EPX-210		14:20	1								pH, EC
10361	EPX-211		14:25	1								
A010362	EPX-212	↓	14:30	1								

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253-2691 FAX #:

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 06-15-06, 0834

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge EA-310005-TML

log group 060724 1148
sheet 2 of 2

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds

PO#

COC# **4383**

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A012872	EPX-213	7/21/06	7:20	1								Total As, Pb
A012873	EPX-214	-"-	7:25	1								Total & Soluble Sulfate
A012874	EPX-215	-"-	7:30	1								pH, EC

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Judy Fey DATE/TIME 07/24/06 0730

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNE[illegible]TT UTAH COPPER CORPORATION CHAIN OF C[illegible]ODY

log group 0608030817[illegible]8

ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOU[illegible]ES GROUP

Sheet 2 of 2

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4388

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A013527	EPX-216	8/2/06	12:25	1								Total As, Pb, Cd
A013528	EPX-217	-"-	12:27	1								pH, EC
A013529	EPX-218	-"-	12:29	1								Total / Soluble

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 8/2/06 16:15

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA-310005-TML

log group 060806 4717

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC# 4390

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A013829	EPX-213A	8/8/06	9:20	1								Total As Pb, Cd
A013830	EPX-219	-11-	9:25	1								Total & Soluble Sulfate
A013831	EPX-220	-11-	9:30	1								pH, EC
												Rush

SAMPLER'S SIGNATURE: Elhud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: 253-2081 FAX #

SURRENDERED BY: Elhud Ardon RECEIVED BY: Judy Fox DATE/TIME 08/09/06 0845

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

charge - EA - 310005-TML

Log In Group: 060818140554 Page 1 of 2

KENN[illegible]TT UTAH COPPER CORPORATION CHAIN OF C[illegible]TODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOU[illegible]ES GROUP

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4394

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A014584	EPX-213B	8/17/06	12:15	1								Total As, Pb, Cd
A014587	EPX-216A	-"-	12:20	1								Total & Soluble Sulfate
A014586	EPX-220A	-"-	12:25	1								pH, EC

SAMPLER'S SIGNATURE: EM Ardon LAB SUBMITTED TO: MEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2681 FAX #

SURRENDERED BY: EM Ardon RECEIVED BY: [signature] DATE/TIME 8/18/00 7:30

SURRENDERED BY:_____ RECEIVED BY:_____ DATE/TIME_____

SURRENDERED BY:_____ RECEIVED BY:_____ DATE/TIME_____

COMMENTS/SPECIAL INSTRUCTIONS:_____

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds

PO#: 0608110816 55

COC#: 4391

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A014039	EPX-221	8/10/06	9:00	1								Total As, Pb, Cd
												Total & Soluble Sulfate
												pH, EC
A014040	EP081006.1	8/10/06	9:25	1								Total As, Pb
A014041	EP081006.2	-"-	9:30	1								-"-
A014042	EP081006.3	-"-	9:35	1								-"-
												Rush

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: ~~[illegible]~~ EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 08/10/06, 1236

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge EA - 310005-TML

5 of 5

login group # 06081601 54

KENNE[illegible]TT UTAH COPPER CORPORATION **CHAIN OF C[illegible]ODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOU[illegible]ES GROUP**

PROJECT CODE/NAME Evap Ponds

PO# COC# **4393**

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A014402	EPX-222	8/14/06	8:15	1								Total As, Pb, Cd
14403	EPX-223	-"-	8:20	1								pH EC
												Total / soluble sulfate
												SO4-LEA
												SO4-SLD

SAMPLER'S SIGNATURE: EM [illegible] LAB SUBMITTED TO:

REPORT RESULTS TO: PHONE #: FAX #

SURRENDERED BY: RECEIVED BY: [illegible] DATE/TIME 08-15-06, 1245

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

Sheet 2 of 2

0608280909 05

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4395

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A014929	EPX-224	8/25/06	8:56	1								Total As, Pb, cd
930	EPX-225		8:55	1								pH, EC
931	EPX-226		9:00	1								Total & Soluble Sulfate
A014932	EPX-227		9:05	1								
												Please Rush

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHWD A12D01 PHONE #: FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 08/28/06, 0700

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA -310005-TML

~ 1082 Log In Group: 060901145930

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4399

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A015204	EPX-213C	8/29/06	11:00	1								Total As, Pb
15205	EPX-216B	-11-	11:05	1								
15206	EPX-220B	-11-	11:10	1								
												Please Rush

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2087 FAX #:

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 8/31/06 15:31

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

0609111112758

PROJECT CODE/NAME: Evap Ponds

PO#

COC# 4400

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A015532	EPX-228	9/7/06	12:00	1								Total As, Pb, Cd
A015533	EPX-229	-"-	12:05	1								Total & Soluble Sulfate
A015534	EPX-216C	9/8/06	13:00	1								pH, EC

SAMPLER'S SIGNATURE: Eld Ardon

LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON

PHONE #: 253.2081 FAX #

SURRENDERED BY: Eld Ardon RECEIVED BY: Hutchinson DATE/TIME 9/8/06 16:30

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA - 310005 - TML SO4 Lea SO4-SLD

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

0609220908036

PROJECT CODE/NAME: Evap Ponds

PO#

COC# 4401

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)	ANALYSIS REQUESTED
A016210	EPX-230	9/21/06	14:00	1							Total As, Pb, Cd
211	EPX-231	-"-	14:05	1							pH, EC, Total/soluble Sulfate
212	EP09220.1	-"-	13:45	1	EPX- <216.D1>						-"-
213	EP09220.2	-"-	13:50	1	<216.D2>						
214	GP-7B.5	9/21/06	14:30	1							-"-
215	GP-7B.6	-"-	14:32	1							
216	GP-7B.7	-"-	14:34	1							
A016217	GP-7B.8	-"-	14:36	1							

Please Rush

SAMPLER'S SIGNATURE: Ehud Ardon

LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON

PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Judy Fox DATE/TIME 09/22/06 0805

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA-310005-TML SO4 LEA SO4 Sap

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY

Sheet 2 of 3 061006[redacted]244

ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4404

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A016872	EPX-232	10/5/06	16:00	1								Total As, Pb, Cd.
A016873	EPX-233	-11-	16:05	1								pH, EC
												Total & Soluble Sulfate
A016874	EP005dup	-11-	16:15	1								

SAMPLER'S SIGNATURE: Ehud Ardon

LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON

PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Judy Fox DATE/TIME 10/06/06 0915

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA-310005-TML EHUDDIRT SO4-Lea SO4-SLD

Log In Copy 061023085

KENN[illegible]TT UTAH COPPER CORPORATION **CHAIN OF [illegible]TODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESO[illegible]CES GROUP**

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4409

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A017568	EPX-234	10/20/06	14:05	1								Total As, Pb, Cd
17569	EPX-235	"	14:10	1								Total & Soluble Sulfate
17570	EPX-236	"	14:15	1								pH, EC
												Rush

SAMPLER'S SIGNATURE: EM Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: EM Ardon RECEIVED BY: Vince Kell DATE/TIME 10/23/06 08:50

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Sheet 1 of 3

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

061103081603

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4412

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A018209	EPX-237	11/2/06	12:30	1								Total As, Pb, Cd
A018210	EPX-238	-"-	12:35	1								Total & Soluble Sulfate
A018211	EPX-239	-"-	12:40	1								EC, pH
												Rush

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EHUD ARDON PHONE #: 253. 2081 FAX #

SURRENDERED BY: [signature] RECEIVED BY: Judy Fox DATE/TIME 11/03/06 0815

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA-310005-TML SO_4 Lea, SO_4 SLD

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

0611130[redacted]57
sheet 1 of 2

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4415

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A018700	EPX-239A	11/10/06	13:00	1								Total As, Pb, Cu
701	EPX-240		13:05	1								Total & Soluble Sulfate
702	EPX-241		13:10	1								pH, EC
703	EPX-242		13:15	1								
704	EPX-243		13:20	1								
705	EPX-244		13:25	1								
A018706	EPX-245		13:30	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: [signature] DATE/TIME 11/10/06 4:00pm

SURRENDERED BY: _____ RECEIVED BY: _____ DATE/TIME _____

SURRENDERED BY: _____ RECEIVED BY: _____ DATE/TIME _____

COMMENTS/SPECIAL INSTRUCTIONS: _____

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

061128 05056
Sheet 2 of 2

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4417

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A019388	EPX-241A	11/27/06	15:00	1								Total As, Pb
												Total & Soluble Sulfate
												pH, Ec

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #

SURRENDERED BY: [signature] RECEIVED BY: Judy Fox DATE/TIME 11/28/06 0750

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Chain-of-Custody Forms

Characterization/Confirmation Sampling

00402

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# **4283**

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AM19446	EPT1-1	9/27/04	13:40	1								As Pb - Totals
447	EPT1-2	-"-	13:43	1								Total & Soluble Sulfate
448	EPT1-3	-"-	13:46	1								pH, EC
449	EPT1-4	-"-	13:49	1								
450	EPT1-5	-"-	13:50	1								
451	EPT2-1	-"-	14:05	1								
452	EPT2-2	-"-	14:07	1								
453	EPT2-3	-"-	14:09	1								
454	EPT2-4	-"-	14:11	1								
455	EPT2-5	-"-	14:13	1								
456	EPT2-6	-"-	14:15	1								
457	EPT2-7	-"-	14:17	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 9/28/04 16:30

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

032913

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4301

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN04628	EP0329-1-1	3/29/05	11:00	1								As Pb - Total
629	-1-2		11:02	1								pH
630	-1-3		11:04	1								
631	-1-4		11:06	1								
632	-1-5		11:08	1								Rush
633	-2-1		11:14	1								
634	-2-2		11:16	1								
635	-2-3		11:18	1								
636	-2-4		11:20	1								
637	-3-1		11:28	1								
638	-3-2		11:30	1								
639	-3-3		11:32	1								
640	-3-4		11:34	1								
641	-3-5		11:36	1								
642	-4-1		11:40	1								

SAMPLER'S SIGNATURE: Ehl Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHLO ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehl Ardon RECEIVED BY: Hutchinson DATE/TIME 3/29/05 3:35 PM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-in Group No. 032 11555

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

Evap Ponds

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AN04642	EP0329-4-2	3/29/05	11:42	1							
2	648	-4-3		11:44	1							
3	649	-4-4		11:46	1							
4	646	-5-1		11:50	1							
5	647	-5-2		11:52	1							
6	648	-5-3		11:54	1							
7	649	-5-4		11:56	1							
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Ehud Arbon **Telephone #** 253.2081 **Fax #** _____
Report Results to : Ehud Arbon **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: Hutchinson Date/Time: 3/27/05 3:35 pm
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

04[illegible]36

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4304

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN05280	EP30-X1	4/6/05	15:00	1							•	As, Pb - Total
281	EP30 X2		15:05	1							•	pH
282	EP30-X3		15:10	1							•	
				1								
283	EP 30-11.1		15:20	1								
284	-11.2		15:22	1								
285	-11.3		15:24	1								Rush
286	-11.4		15:26	1								
287	-11.5		15:28	1								
288	-12.1		15:30	1								
289	-12.2		15:32	1								
290	-12.3		15:34	1								
291	-12.4		15:36	1								
292	-13.1		15:46	1								
293	-13.2		15:48	1								

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #:

SURRENDERED BY: Ed Ardon RECEIVED BY: J Hardman DATE/TIME 4/7/05 11:45 am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

04[illegible]1436

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4305

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AND5273	EP-30-13.3	4/6/05	15:50	1								As, Pb - Totals
274	-13.4		15:52	1								pH
275	-14.1		16:00	1								
276	-14.2		16:02	1								
277	-14.3		16:04	1								
278	-14.4		16:06	1								Rush
279	-14.5		16:08	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 4/7/05 11:45am

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

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KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4306

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A00201	EP30-X4	4/21/05	10:00	1								As Pb -Totals
202	EP30-X5	-"-	10:05	1								pH
203	EP30-15.1	-"-	10:10	1								
204	EP30-15.2	-"-	10:12	1								Rush
205	EP30-15.3	-"-	10:16	1								
206	-16.1	-"-	10:20	1								
207	-16.2	-"-	10:22	1								
208	-16.3	-"-	10:24	1								Total & Soluble Sulfate
209	-17.1	-"-	10:26	1								for EP30-17.3 and
210	-17.2	-"-	10:28	1								-17.4 only.
211	-17.3	-"-	10:30	1								
212	-17.4	-"-	10:32	1								

SAMPLER'S SIGNATURE: Ehd Avdon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Avdon PHONE #: FAX #:

SURRENDERED BY: Ehd Avdon RECEIVED BY: Wendy C Dingley DATE/TIME 4/21/05

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0426[illegible]5

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4307

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN06411	EP30-18.1	4/25/05	14:50	1								As Pb Totals
412	EP30-18.2	—"—	(15:00)	1								pH
												Rush
												Need by 4/27/05 2:00pm

SAMPLER'S SIGNATURE: Ehl Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ehud Ardon PHONE #: FAX #:

SURRENDERED BY: Ehl Ardon RECEIVED BY: J B Hardman DATE/TIME:

SURRENDERED BY: RECEIVED BY: DATE/TIME 4/26/05 11:31

SURRENDERED BY: RECEIVED BY: DATE/TIME:

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0507210934 33

KENNECOTT UTAH COPPER CORPORATION — CHAIN OF CUSTODY — ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4317

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
AN12239	EP26W.1	7/20/05	13:00	1								As Pb
40	EP26W.2		13:04	1								pH
41	EP26W.3		13:06	1								
42	EP26.1		13:14	1								
43	EP26.2		13:15	1								
44	EP26.3		13:16	1								Rush
45	EP26N.1		13:25	1								
46	EP26N.2		13:27	1								
47	EP26N.3		13:28	1								
48	EP26S.1		13:30	1								
49	EP26S.2		13:31	1								
50	EP26S.3		13:32	1								
51	EP26E.1		13:37	1								
52	EP26E.2		13:38	1								

SAMPLER'S SIGNATURE: Ehud Ardon — LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EHUD ARDON — PHONE #: 253.2081 — FAX #:

SURRENDERED BY: Ehud Ardon — RECEIVED BY: Hutchinson — DATE/TIME 7/20/05 4:30pm

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

SURRENDERED BY: — RECEIVED BY: — DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES — YELLOW COPY: EEPG — PINK COPY: SAMPLER

Jul. 21. 2005 8:38AM Kennecott Land - Daybreak No. 0256 P. 1

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

O[illegible]28142459

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4318

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN12242	EP26N2.1	7/27/05	13:00	1								As, Pb, Cd - Total
743	N2.2	-"-	13:02	1								* pH
744	N2.3	-"-	13:04	1								
745	* N2.4	-"-	13:06	1								
746	26 E2.1	-"-	13:18	1								
747	E2.2	-"-	13:20	1								* Total / Soluble Sulfate
748	E2.3	-"-	13:22	1								
749	E2.4	-"-	13:24	1								
750	* E2.5	-"-	13:26	1								Rush
751	26W2.1	-"-	13:30	1								
752	* W2.2	-"-	13:32	1								8/2/05
753	* W2.3	-"-	13:34	1								
754	EP25.1	-"-	13:42	1								
755	EP25.2	-"-	13:44	1								
756	EP25.3	-"-	13:46	1								

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ethel ARDON PHONE #: 953-2081 FAX #:

SURRENDERED BY: Ed Ardon RECEIVED BY: J Hardman DATE/TIME 7/28/05 13:50pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

05072[illegible]459

KENN[illegible]OTT UTAH COPPER CORPORATION CHAIN OF C[illegible]TODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURC[illegible] GROUP

PROJECT CODE/NAME	Evap Pond	PO#	COC# 4319

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
ANM2757	EP25.4	7/27/05	13:48	1								As, Pb, Cd - Total
ANM2758	EP25.5	-"-	13:50	1								pH
												Total Soluble Sulfate
												Push
												8/2/05

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #

SURRENDERED BY: [signature] RECEIVED BY: [signature] DATE/TIME 7/28/05 13:56

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

0509281453 2 of 2

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC#: 4324

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN16587	GP20X1.1	9/27/05	12:00	1								As, Pb - Totals
588	GP20X1.2	↓	12:02	1								Total/Soluble Sulfate
589	GP20X1.3		12:04	1								pH, EC
AN16590	GP20X1.4		12:06	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Michael DeFeo DATE/TIME 9/27/05 4:00pm

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME: Evap Ponds | PO# 051012165035 | COC# 4327

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN17526	EPX-156	10/12/05	13:45									Total metals RCRA8 (-Hg)
27	EPX-157	-"-	13:50									Total Soluble Sulfate
												EC, pH 310031
28	EPCS-GPB.1	-"-	14:00									
29	EPCS-GPB.2	-"-	14:05									Total As, Pb
30	EPCS-GPB.3	-"-	14:10									
												Rush

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: J Hardman DATE/TIME 10/12/05 15:50

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log-In Group No. C 218163751

KENNECOTT
ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AW17836	EPCS-GP~~13-4~~ 2.1	10/17/05	15:25	1							As, Pb - Total
2	37	EPCS-GP~~13-5~~ 2.2	-"	15:30	1							pH
3	AW17838	EPCS-GP~~13-6~~ 2.3	-"	15:35	1							
4												Total / Soluble sulfate
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: [illegible] **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: Hutchinson Date/Time: 10/18/05 4:30
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

05102808251

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	Evap Pond	PO#	COC# 4329

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN18461	GP20X2.1	10/26/05	11:55	1								Total As, Pb
62	GP20X2.2	-"-	12:00	1								
63	GP20X2.3	-"-	12:05	1								
64	GP20X2.4	-"-	12:10	1								
												Rush
												EA-310031 THL

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: J B Hardman DATE/TIME 10/26/05 13:55

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Log In Group # 05[redacted]575700

KENN[redacted]OTT UTAH COPPER CORPORATION **CHAIN OF C[redacted]TODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

PROJECT CODE/NAME	PO#	COC#
Evap Ponds		4335

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AN20045	EPX-159B	11/21/05	15:00	1								Total RCRA 8 (Hg), Total Sol Sulfate, EC, pH
AN20046	GP 12-1.1	11/22/05	14:30	1								Total As, Pb, pH
" 47	GP 12-1.2	-11-	14:32	1								
" 48	GP 12-1.3	-11-	14:34	1								
												EA - 310001 - TML

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: Vince Fell DATE/TIME 11/23/05 07:57

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

0606272102

Sheet 1 of 2

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4378

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A010939	GP-3A.1	6/21/06	11:30	1								Total As, Pb
10940	GP-3A.2		11:32	1								Total & Soluble Sulfate
10941	GP-7A.1		12:00	1								pH, EC
10942	7A.2		12:02	1								
10943	7A.3		12:04	1								
10944	7A.4		12:06	1								
10945	7A.5		12:08	1								
10946	7A.6		12:10	1								
10947	7A.7		12:12	1								
10948	7B.1		12:30	1								
10949	7B.2		12:32	1								
10950	7B.3		12:34	1								
10951	7B.4		12:36	1								
10952	7B.5		12:38	1								
A010953	7B.6		12:40	1								

RUSH

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #:

SURRENDERED BY: Ehud Ardon RECEIVED BY: [illegible] DATE/TIME 6/22/06 9:00AM

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge EA -310005-YML

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

060622210[illegible]2
Sheet 2 of 2

PROJECT CODE/NAME	Evap Ponds	PO#	COC# 4379

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A010954	GP-7B.7	6/21/06	12:42	1								Total As, Pb
10955	7B.8	-"-	12:44	1								Total & Soluble Sulfate
10956	7B.9	-"-	12:46	1								pH, EC
A010957	7B.10	-"-	12:48	1								

RUSH

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Hutchenson DATE/TIME 6/22/06 9:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge EA-310005-YML

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

PROJECT CODE/NAME: Evap Ponds | PO#: | COC# 4380

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
AW11654	GP-7C.1	6/29/06	8:15	1								Total As, Pb
11655	7C.2		8:17	1								Total & Soluble Sulfate
11656	7C.3		8:19	1								pH, EC
11657	7C.4		8:21	1								
11658	7C.5		8:23	1								
11659	7C.6		8:25	1								
11660	7C.7		8:27	1								
11661	7C.8		8:29	1								
11662	7C.9		8:31	1								Rush
11663	7C.10		8:33	1								
11664	EP062906.1		9:00	1								

SAMPLER'S SIGNATURE: [signature] LAB SUBMITTED TO: KEL

REPORT RESULTS TO: ENID ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: [signature] RECEIVED BY: Melissa [signature] DATE/TIME 06-30-06, 0800

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

login group # 0606301010 19

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION

CHAIN OF CUSTODY

ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

~~login# 060711135~~ 939

~~login# 060711140~~ 719

login: ~~060711135~~ 060711/40150

PROJECT CODE/NAME: Evap Ponds

PO#

COC# 4381

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
~~A012280~~	GP-7C.11	7/6/06	14:30	1								As, Pb,
~~A012281~~												pH, EC
A012282												Total / Soluble Sulfate
~~A012283~~												
~~77~~ 07/12/06												
~~A012280~~												
A012281												Rush

SAMPLER'S SIGNATURE: Eld Ardon

LAB SUBMITTED TO: KEC

REPORT RESULTS TO: EHUD ARDON

PHONE #: _____ FAX #

SURRENDERED BY: Eld Ard

RECEIVED BY: [signature]

DATE/TIME 7/11/06 13:00

SURRENDERED BY: _____ RECEIVED BY: _____ DATE/TIME _____

SURRENDERED BY: _____ RECEIVED BY: _____ DATE/TIME _____

COMMENTS/SPECIAL INSTRUCTIONS: _____

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

Charge: EA-310005-TM1

KENNE[illegible]TT UTAH COPPER CORPORATION CHAIN OF C[illegible]TODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOU[illegible]ES GROUP

log group · 060724[illegible]48

977 Sheet 1 of 2 sheet 1 of 2

07/24/06

PROJECT CODE/NAME PO# COC# 4382

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
A012860	GP-7D.1	7/21/06	~~7/21/06~~ 7:45	1								Total As, Pb
861	GP-7D.2		7:46	1								pH, EC
862	7D.3		7:47	1								Total & Soluble Sulfate
863	7D.4		7:48	1								
864	7D.5		7:49	1								
865	7D.6		7:50	1								
866	7D.7		7:51	1								
867	7D.8		7:52	1								
868	7D.9		7:53	1								
869	7D.10		7:54	1								
870	7D.11		7:55	1								
A012871	7D.12		7:56	1								

SAMPLER'S SIGNATURE: Ehud Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EHUD ARDON PHONE #: 253.2081 FAX #

SURRENDERED BY: Ehud Ardon RECEIVED BY: Judy Fox DATE/TIME 07/24/06 0730

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION **CHAIN OF CUSTODY** **ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP**

log group 06080306348
Sheet 1 of 2

PROJECT CODE/NAME: Evap Pond | PO#: | COC# 4389

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS: Soil	Water	Other	FIELD PARAMETERS: pH	Cond.	Temp.	DTW(ft)		ANALYSIS REQUESTED
A013510	GP-7E.1	8/2/06	12/45	1								Total As Pb, Cd
511	7E.2		12/46	1								Total & Soluble Sulfate
512	7E.3		12/47	1								pH, EC
513	7E.4		12/48	1								
514	7E.5		12/49	1								
515	7E6		12/50	1								
516	7E7		12/51	1								
517	7E.8		12/52	1								
518	7E.9		12/53	1								
519	GP-7B1.1		13/00	1								
520	7B1.2		13/02	1								
521	7B2.1		13/04	1								
522	7B2.2		13/06	1								
523	7B3.1		13/08	1								
524	7B3.2		13/10	1								
525	7B4.1		13/12	1								
A013526	7B4.2		13/14	1								

SAMPLER'S SIGNATURE: Ed Ardon LAB SUBMITTED TO: KEL

REPORT RESULTS TO: EMMD ARDON PHONE #: 253-2081 FAX #:

SURRENDERED BY: Ed Ardon RECEIVED BY: Hutchinson DATE/TIME 8/2/06 16:15

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

0609220908 03

PROJECT CODE/NAME: Evap Ponds

PO#

COC# 4401

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS Soil	Water	Other	FIELD PARAMETERS pH	Cond.	Temp.	DTW(ft)	ANALYSIS REQUESTED
A016210	EPX-230	9/21/06	14:00	1							Total As, Pb, Cu
211	EPX-231	-"-	14:05	1							pH, EC, Total/soluble Sulfate
212	EP09[illegible].1	-"-	13:45	1							-"-
213	EP09[illegible].2	-"-	13:50	1							
214	GP-7B.5	9/21/06	14:30	1							-"-
215	GP-7B.6	-"-	14:32	1							
216	GP-7B.7	-"-	14:34	1							
A016217	GP-7B.8	-"-	14:36	1							

Please Rush

SAMPLER'S SIGNATURE: Ethan Ardon

LAB SUBMITTED TO: KEL

REPORT RESULTS TO: Ethan Ardon

PHONE #: 253-2081

FAX #

SURRENDERED BY: Ethan Ardon

RECEIVED BY: Judy Fox

DATE/TIME 09/22/06 0805

SURRENDERED BY:

RECEIVED BY:

DATE/TIME

SURRENDERED BY:

RECEIVED BY:

DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS:

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

EA-310005-TML SO4 LEA SO4 Sap

Log-in Group No. 060 7111120

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

Sheet Request No. _____ - _____ - _____
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	A012987	GP-7B.8 (was A010955)	6/21/06		1							Pb-solid
2	12988	GP-7B.9 (was A010956)	6/21/06									As-solid
3	12989	GP-70.7 (was A012866)	6/21/06									pH-paste
4	12990	GP-70.9 (was A012868)	6/21/06									
5	12991	GP-7B.8 Split										
6	12992	GP-7B.9 Split										Pb-solid
7	12993	GP-70.7 Split										As-solid (Splits)
8	12994	GP-70.9 Split										
9												
10												
11												
12												
13												
14												Loc. code - TOT MET
15												
16												EA# - 310005 - TML

Sample Submitted by: Ehud Ardon **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: Melissa [signature] Received By: Melissa [signature] Date/Time: 07-27-06, 1100
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

Appendix C

Laboratory Analytical Certificates and QA Statements

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 30-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/15/2003

QC Reference Sample: **AL22978**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AL22978	EPX-1	9/12/2003	9/18/2003	pH Paste	**7.52**		
			9/16/2003	Arsenic	**15**	2	mg/kg
			9/17/2003	Barium	**98**	2	mg/kg
			9/17/2003	Cadmium	**Below MDL**	1	mg/kg
			9/17/2003	Chromium	**20**	2	mg/kg
			9/17/2003	Copper	**208**	2.0	mg/kg
			9/16/2003	Lead	**64**	3	mg/kg
			9/17/2003	Selenium	**Below MDL**	2	mg/kg
			9/17/2003	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2040**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**7500**	500	mg/kg
			9/18/2003	Soil Paste Conductivity	**3180**		umhos/cm
AL22979	EPX-2	9/12/2003	9/18/2003	pH Paste	**7.56**		
			9/16/2003	Arsenic	**16**	2	mg/kg
			8/1/2005	Barium	**167**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**22**	2	mg/kg
			9/16/2003	Lead	**51**	3	mg/kg
			8/1/2005	Selenium	**2**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2180**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**3600**	500	mg/kg
			9/18/2003	Soil Paste Conductivity	**3960**		umhos/cm
AL22980	EPX-3	9/12/2003	9/18/2003	pH Paste	**7.66**		
			9/16/2003	Arsenic	**15**	2	mg/kg
			8/1/2005	Barium	**154**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**21**	2	mg/kg
			9/16/2003	Lead	**66**	3	mg/kg
			8/1/2005	Selenium	**2**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**1780**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**1200**	500	mg/kg
			9/18/2003	Soil Paste Conductivity	**3170**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AL22981	EPX-4	9/12/2003	9/18/2003	pH Paste	**7.77**		
			9/16/2003	Arsenic	**8**	2	mg/kg
			8/1/2005	Barium	**89**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**17**	2	mg/kg
			9/16/2003	Lead	**49**	3	mg/kg
			8/1/2005	Selenium	**1**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**414**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**900**	500	mg/kg
			9/18/2003	Soil Paste Conductivity	**1820**		umhos/cm
AL22982	EPX-5	9/12/2003	9/18/2003	pH Paste	**7.43**		
			9/16/2003	Arsenic	**20**	2	mg/kg
			8/1/2005	Barium	**128**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**25**	2	mg/kg
			9/16/2003	Lead	**66**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2080**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**7800**	500	mg/kg
			9/18/2003	Soil Paste Conductivity	**3100**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/16/2003

Quality Assurance Satement for Samples: **AL22978-AL22982**

Original: AL22978 **Spike Sample:** AL23050 **Blank Spike:** AL23052

Duplicate: AL23049 **Blank Sample:** AL23051 **Reference Sample:** AL23053 0017-14-11

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	15	12	22.22	100	113	**98**	Below MDL	96	**96**	189	257	**74**
Lead	1	64	62	3.17	100	171	**107**	Below MDL	104	**104**	158	166	**95**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 10/13/2003

QC Reference Sample: **AL25178**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AL25174	EPX-6	10/9/2003	10/17/2003	pH Paste	**7.59**		
			10/15/2003	Arsenic	**30**	2	mg/kg
			8/1/2005	Barium	**91**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**17**	2	mg/kg
			10/15/2003	Lead	**61**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2250**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**6300**	500	mg/kg
			10/17/2003	Soil Paste Conductivity	**3000**		umhos/cm
AL25175	EPX-7	10/9/2003	10/17/2003	pH Paste	**7.64**		
			10/15/2003	Arsenic	**23**	2	mg/kg
			8/1/2005	Barium	**97**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**17**	2	mg/kg
			10/15/2003	Lead	**56**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2340**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**5100**	500	mg/kg
			10/17/2003	Soil Paste Conductivity	**3120**		umhos/cm
AL25176	EPX-8	10/9/2003	10/17/2003	pH Paste	**7.45**		
			10/15/2003	Arsenic	**23**	2	mg/kg
			8/1/2005	Barium	**109**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**19**	2	mg/kg
			10/15/2003	Lead	**44**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2470**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**3000**	500	mg/kg
			10/17/2003	Soil Paste Conductivity	**2880**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AL25177	EPX-9	10/9/2003	10/17/2003	pH Paste	**7.54**		
			10/15/2003	Arsenic	**16**	2	mg/kg
			8/1/2005	Barium	**157**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**17**	2	mg/kg
			10/15/2003	Lead	**48**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2020**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**2400**	500	mg/kg
			10/17/2003	Soil Paste Conductivity	**4790**		umhos/cm
AL25178	EPX-10	10/9/2003	10/17/2003	pH Paste	**7.65**		
			10/15/2003	Arsenic	**19**	2	mg/kg
			10/16/2003	Barium	**97**	2	mg/kg
			10/16/2003	Cadmium	**Below MDL**	1	mg/kg
			10/16/2003	Chromium	**18**	2	mg/kg
			10/16/2003	Copper	**470**	2.0	mg/kg
			10/15/2003	Lead	**54**	3	mg/kg
			10/16/2003	Selenium	**Below MDL**	2	mg/kg
			10/16/2003	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2420**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**10800**	500	mg/kg
			10/17/2003	Soil Paste Conductivity	**3670**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 10/14/2003

Quality Assurance Statement for Sample: **AL25178**

Original: AL25178 **Duplicate:** AL25246 **Blank Sample:** AL25248

Spike Sample: AL25247 **Spike Blank Sample:** AL25249

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	NA	100	94	**94**	Below MDL	93	**93**
Arsenic	19	19	0.00	100	114	**95**	Below MDL	100	**100**
Barium	97	103	-6.00	100	188	**91**	Below MDL	96	**96**
Cadmium	Below MDL	Below MDL	NA	100	88	**88**	Below MDL	93	**93**
Chromium	18	18	0.00	100	115	**97**	Below MDL	95	**95**
Lead	54	53	1.87	100	150	**96**	Below MDL	100	**100**
Selenium	Below MDL	Below MDL	NA	100	99	**99**	Below MDL	98	**98**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/6/2003

QC Reference Sample: **AL26993**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AL26991	EPX-11	11/5/2003	11/14/2003	pH Paste	**7.50**		
			11/11/2003	Arsenic	**18**	2	mg/kg
			8/1/2005	Barium	**99**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**15**	2	mg/kg
			11/11/2003	Lead	**51**	3	mg/kg
			8/1/2005	Selenium	**4**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2110**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**7800**	500	mg/kg
			11/14/2003	Soil Paste Conductivity	**2510**		umhos/cm
AL26992	EPX-12	11/5/2003	11/14/2003	pH Paste	**7.73**		
			11/11/2003	Arsenic	**16**	2	mg/kg
			8/1/2005	Barium	**105**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**18**	2	mg/kg
			11/11/2003	Lead	**50**	3	mg/kg
			8/1/2005	Selenium	**2**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**1890**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**<100**	500	mg/kg
			11/14/2003	Soil Paste Conductivity	**2350**		umhos/cm
AL26993	EPX-13	11/5/2003	11/14/2003	pH Paste	**7.81**		
			11/11/2003	Arsenic	**10**	2	mg/kg
			11/11/2003	Barium	**160**	2	mg/kg
			11/11/2003	Cadmium	**Below CRDL**	1	mg/kg
			11/11/2003	Chromium	**15**	2	mg/kg
			11/11/2003	Copper	**104**	2.0	mg/kg
			11/11/2003	Lead	**45**	3	mg/kg
			11/11/2003	Selenium	**Below MDL**	2	mg/kg
			11/11/2003	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**3110**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**3900**	500	mg/kg
			11/14/2003	Soil Paste Conductivity	**2650**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 11/7/2003

Quality Assurance Statement for Sample: **AL26993**

Original: AL26993 **Duplicate:** AL26994 **Blank Sample:** AL26996

Spike Sample: AL26995 **Spike Blank Sample:** AL26997

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	NA	100	98	**98**	Below MDL	98	**98**
Arsenic	10	13	-26.09	100	111	**101**	Below MDL	99	**99**
Barium	160	120	28.57	100	234	**74**	Below MDL	103	**103**
Cadmium	Below MDL	Below MDL	NA	100	91	**91**	Below MDL	98	**98**
Chromium	15	15	0.00	100	117	**102**	Below MDL	102	**102**
Lead	45	46	-2.20	100	146	**101**	Below MDL	101	**101**
Selenium	Below MDL	Below MDL	NA	100	88	**88**	Below MDL	90	**90**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/11/2003

QC Reference Sample: **AL27245**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AL27244	EPX-14	11/7/2003	11/14/2003	pH Paste	**7.82**		
			11/12/2003	Arsenic	**11**	2	mg/kg
			8/1/2005	Barium	**100**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**16**	2	mg/kg
			11/12/2003	Lead	**44**	3	mg/kg
			8/1/2005	Selenium	**3**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**1980**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**3600**	500	mg/kg
			11/14/2003	Soil Paste Conductivity	**2510**		umhos/cm
AL27245	EPX-15	11/7/2003	11/14/2003	pH Paste	**7.79**		
			11/12/2003	Arsenic	**15**	2	mg/kg
			11/13/2003	Barium	**92**	2	mg/kg
			11/13/2003	Cadmium	**0.6**	1	mg/kg
			11/13/2003	Chromium	**14**	2	mg/kg
			11/13/2003	Copper	**118**	2.0	mg/kg
			11/12/2003	Lead	**48**	3	mg/kg
			11/13/2003	Selenium	**Below MDL**	2	mg/kg
			11/13/2003	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**2050**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**2400**	500	mg/kg
			11/14/2003	Soil Paste Conductivity	**2670**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 11/11/2003

Quality Assurance Statement for Sample: **AL27245**

Original: AL27245 **Duplicate:** AL27263 **Blank Sample:** AL27265

Spike Sample: AL27264 **Spike Blank Sample:** AL27266

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	**	100	93	**93**	Below MDL	94	**94**
Arsenic	15	16	-6.45	100	112	**97**	Below MDL	98	**98**
Barium	92	88	4.44	100	172	**80**	Below MDL	99	**99**
Cadmium	0.6	0.8	**	100	90	**90**	Below MDL	96	**96**
Chromium	14	14	0.00	100	114	**100**	Below MDL	100	**100**
Lead	48	55	-13.59	100	151	**103**	Below MDL	100	**100**
Selenium	Below MDL	Below MDL	**	100	90	**90**	Below MDL	91	**91**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/18/2003

QC Reference Sample: **AL28194**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AL27883	EPX-16	11/11/2003	11/20/2003	pH Paste	**7.25**		
			11/25/2003	Arsenic	**13**	2	mg/kg
			8/1/2005	Barium	**147**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**14**	2	mg/kg
			11/25/2003	Lead	**39**	3	mg/kg
			8/1/2005	Selenium	**3**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**1770**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**1800**	500	mg/kg
			11/20/2003	Soil Paste Conductivity	**2280**		umhos/cm
AL27884	EPX-17	11/12/2003	11/20/2003	pH Paste	**7.34**		
			11/25/2003	Arsenic	**8**	2	mg/kg
			8/1/2005	Barium	**130**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**20**	2	mg/kg
			11/25/2003	Lead	**29**	3	mg/kg
			8/1/2005	Selenium	**3**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**860**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**300**	500	mg/kg
			11/20/2003	Soil Paste Conductivity	**1970**		umhos/cm
AL27885	EPX-18	11/12/2003	11/20/2003	pH Paste	**7.54**		
			11/25/2003	Arsenic	**9**	2	mg/kg
			8/1/2005	Barium	**144**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**18**	2	mg/kg
			11/25/2003	Lead	**27**	3	mg/kg
			8/1/2005	Selenium	**2**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			12/12/2003	Sulfate - Leachable	**1010**	5	mg/Kg
			12/12/2003	Sulfate in Soils	**1800**	500	mg/kg
			11/20/2003	Soil Paste Conductivity	**1000**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 11/21/2003

Quality Assurance Statement for Sample: **AL28194**

Original: AL28194 **Duplicate:** AL28195 **Blank Sample:** AL28197

Spike Sample: AL28196 **Spike Blank Sample:** AL28198

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	2	2	0.00	100	97	**97**	Below MDL	96	**96**
Arsenic	61	62	-1.63	100	162	**101**	Below MDL	97	**97**
Barium	202	194	4.04	100	306	**104**	Below MDL	97	**97**
Cadmium	6.9	6.8	1.46	100	99	**99**	Below MDL	96	**96**
Chromium	28	26	7.41	100	126	**98**	Below MDL	98	**98**
Lead	1670	1560	6.81	100	1770	**100**	Below MDL	98	**98**
Selenium	Below MDL	Below MDL	**	100	89	**89**	Below MDL	96	**96**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 11/26/2003
Matrix: Soil
QC Sample AL28591
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AL28593	EPX - 19						
		11/21/03	12/2/03	Arsenic	8	2	mg/kg
		11/21/03	12/18/03	Soil Paste Conductivity	3530		umhos/cm
		11/21/03	12/2/03	Lead	56	0.05	mg/kg
		11/21/03	12/18/03	pH Paste	8.19		
		11/21/03	12/12/03	Sulfate - Leachable	2390	5	mg/Kg
		11/21/03	12/12/03	Sulfate in Soils	14700	500	mg/kg
AL28594	EPX-20						
		11/21/03	12/2/03	Arsenic	17	2	mg/kg
		11/21/03	12/18/03	Soil Paste Conductivity	2420		umhos/cm
		11/21/03	12/2/03	Lead	43	0.05	mg/kg
		11/21/03	12/18/03	pH Paste	7.90		
		11/21/03	12/12/03	Sulfate - Leachable	1770	5	mg/Kg
		11/21/03	12/15/03	Sulfate in Soils	1800	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 12/2/2003

Quality Assurance Statement for Sample: **AL28591**

Original: AL28591 **Duplicate:** AL28808 **Blank Sample:** AL28810

Spike Sample: AL28809 **Spike Blank Sample:** AL28811

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	**	100	96	**96**	Below MDL	95	**95**
Arsenic	17	15	12.50	100	115	**98**	Below MDL	94	**94**
Barium	123	118	4.15	100	230	**107**	Below MDL	98	**98**
Cadmium	Below MDL	Below MDL	**	100	91	**91**	Below MDL	95	**95**
Chromium	18	18	0.00	100	119	**101**	Below MDL	100	**100**
Mercury	Below MDL	0.6	**	2	1.8	**90**	Below MDL	1.8	**90**
Lead	60	57	5.13	100	156	**96**	Below MDL	100	**100**
Selenium	Below MDL	Below MDL	**	100	90	**90**	Below MDL	83	**83**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 12/9/2003
Matrix: Soil
QC Sample AL29401
Total Metal

Lab Number	*Description*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AL29371	EPX-21						
		12/1/03	12/15/03	Arsenic	21	2	mg/kg
		12/1/03	12/18/03	Soil Paste Conductivity	2710		umhos/cm
		12/1/03	12/15/03	Lead	47	0.05	mg/kg
		12/1/03	12/18/03	pH Paste	7.83		
		12/1/03	12/12/03	Sulfate - Leachable	2190	5	mg/Kg
		12/1/03	12/15/03	Sulfate in Soils	2700	500	mg/kg
AL29372	EPX-22						
		12/2/03	12/15/03	Arsenic	17	2	mg/kg
		12/2/03	12/18/03	Soil Paste Conductivity	2610		umhos/cm
		12/2/03	12/15/03	Lead	55	0.05	mg/kg
		12/2/03	12/18/03	pH Paste	7.75		
		12/2/03	12/12/03	Sulfate - Leachable	2030	5	mg/Kg
		12/2/03	12/15/03	Sulfate in Soils	1200	500	mg/kg
AL29373	EPX-23						
		12/3/03	12/15/03	Arsenic	19	2	mg/kg
		12/3/03	12/18/03	Soil Paste Conductivity	3040		umhos/cm
		12/3/03	12/15/03	Lead	39	0.05	mg/kg
		12/3/03	12/18/03	pH Paste	7.85		
		12/3/03	12/12/03	Sulfate - Leachable	2340	5	mg/Kg
		12/3/03	12/15/03	Sulfate in Soils	2100	500	mg/kg
AL29374	EPX-24						
		12/4/03	12/15/03	Arsenic	14	2	mg/kg
		12/4/03	12/18/03	Soil Paste Conductivity	1540		umhos/cm
		12/4/03	12/15/03	Lead	36	0.05	mg/kg
		12/4/03	12/18/03	pH Paste	7.81		
		12/4/03	12/12/03	Sulfate - Leachable	1140	5	mg/Kg
		12/4/03	12/15/03	Sulfate in Soils	1500	500	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
EL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 12/12/2003

Quality Assurance Statement for Sample: **AL29401**

Original: AL29401 **Duplicate:** AL29692 **Blank Sample:** AL29694

Spike Sample: AL29693 **Spike Blank Sample:** AL29695

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	**	100	96	**96**	Below MDL	91	**91**
Arsenic	12	12	0.00	100	110	**98**	Below MDL	92	**92**
Barium	131	135	-3.01	100	236	**105**	Below MDL	94	**94**
Cadmium	Below MDL	Below MDL	**	100	93	**93**	Below MDL	91	**91**
Chromium	77	76	1.31	100	172	**95**	Below MDL	93	**93**
Lead	50	49	2.02	100	145	**95**	Below MDL	92	**92**
Selenium	3	2	**	100	90	**90**	Below MDL	78	**78**

* = Sample concentration is 10 times higher than the spike amount.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 1/5/2004
Matrix: Soil
QC Sample AM00170
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM00169	EPX-25						
		12/18/03	1/6/04	Arsenic	10	2	mg/kg
		12/18/03	1/12/04	Soil Paste Conductivity	850		umhos/cm
		12/18/03	1/6/04	Lead	72	0.05	mg/kg
		12/18/03	1/12/04	pH Paste	7.63		
		12/18/03	1/14/04	Sulfate - Leachable	272	5	mg/Kg
		12/18/03	1/7/04	Sulfate in Soils	1200	500	mg/kg
AM00170	EPX-26						
		12/24/03	1/7/04	Silver	Below MDL	1	mg/kg
		12/24/03	1/6/04	Arsenic	4	2	mg/kg
		12/24/03	1/7/04	Barium	61	2	mg/kg
		12/24/03	1/7/04	Cadmium	Below MDL	0.5	mg/kg
		12/24/03	1/12/04	Soil Paste Conductivity	1880		umhos/cm
		12/24/03	1/7/04	Chromium	12	1.0	mg/kg
		12/24/03	1/7/04	Copper	68	1.0	mg/kg
		12/24/03	1/6/04	Lead	49	0.05	mg/kg
		12/24/03	1/12/04	pH Paste	7.68		
		12/24/03	1/7/04	Selenium	5	2	mg/kg
		12/24/03	1/14/04	Sulfate - Leachable	1190	5	mg/Kg
		12/24/03	1/7/04	Sulfate in Soils	1500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 1/5/2004

Quality Assurance Statement for Sample: **AM00170**

Original: AM00170 **Spike Sample:** AM00172 **Blank Sample:** AM00173

Duplicate: AM00171 **Blank Sample:** AM00173 **Reference Sample:** AM00174 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	92	**92**			
Arsenic	2	4	5	**	100	103	**99**	Below MDL	97	**97**	133	129	103
Barium	2	61	47	25.93	100	164	**103**	Below MDL	96	**96**	207	220	94
Cadmium	0.5	Below MDL	Below MDL	**	100	92	**92**	Below MDL	95	**95**	85	89.2	95
Chromium	1	12	7.9	**	100	111	**99**	Below MDL	97	**97**	103	105	98
Copper	1	68	55	21.14	100	182	**114**	Below MDL	99	**99**	100	95	105
Lead	1	49	37	27.91	100	152	**103**	Below MDL	96	**96**	63	60.6	104
Selenium	2	5	5	**	100	98	**98**	Below MDL	96	**96**	86	88.9	97

* = Sample concentration is 10 times higher than the spike amount.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 1/19/2004
Matrix: Soil
QC Sample AM01069
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM01067	EPX-27						
		1/9/04	1/22/04	Arsenic	70	2	mg/kg
		1/9/04	2/12/04	Soil Paste Conductivity	2740		umhos/cm
		1/9/04	1/22/04	Lead	51	1	mg/kg
		1/9/04	2/12/04	pH Paste	7.80		
		1/9/04	2/13/04	Sulfate - Leachable	2340	5	mg/Kg
		1/9/04	1/29/04	Sulfate in Soils	2700	500	mg/kg
AM01068	EPX-28						
		1/14/04	1/22/04	Arsenic	27	2	mg/kg
		1/14/04	2/12/04	Soil Paste Conductivity	2600		umhos/cm
		1/14/04	1/22/04	Lead	44	1	mg/kg
		1/14/04	2/12/04	pH Paste	7.76		
		1/14/04	2/13/04	Sulfate - Leachable	2170	5	mg/Kg
		1/14/04	1/29/04	Sulfate in Soils	2100	500	mg/kg
AM01069	EPX-29						
		1/14/04	1/22/04	Silver	Below MDL	1	mg/kg
		1/14/04	1/22/04	Arsenic	24	2	mg/kg
		1/14/04	1/22/04	Barium	43	2	mg/kg
		1/14/04	1/22/04	Cadmium	Below MDL	0.5	mg/kg
		1/14/04	2/12/04	Soil Paste Conductivity	2430		umhos/cm
		1/14/04	1/22/04	Chromium	6.0	1.0	mg/kg
		1/14/04	1/22/04	Copper	86	1.0	mg/kg
		1/14/04	1/22/04	Lead	94	1	mg/kg
		1/14/04	2/12/04	pH Paste	7.84		
		1/14/04	1/22/04	Selenium	Below MDL	2	mg/kg
		1/14/04	2/13/04	Sulfate - Leachable	2020	5	mg/Kg
		1/14/04	1/29/04	Sulfate in Soils	2100	500	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 1/21/2004

Quality Assurance Statement for Sample: **AM01069**

Original: AM01069 **Spike Sample:** AM01217 **Blank Sample:** AM01219

Duplicate: AM01216 **Blank Sample:** AM01218 **Reference Sample:** AM01220 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	96	**96**	Below MDL	96	**96**			
Arsenic	2	24	25	-4.08	100	120	**96**	Below MDL	96	**96**	130	129	101
Barium	2	43	52	-18.95	100	148	**105**	Below MDL	97	**97**	206	220	94
Cadmium	0.5	Below MDL	Below MDL	**	100	92	**92**	Below MDL	94	**94**	85	89.2	95
Chromium	1	6	8	**	100	103	**97**	Below MDL	97	**97**	101	105	96
Lead	1	94	74	23.81	100	149	**75**	Below MDL	95	**95**	57	60.6	94
Selenium	2	Below MDL	Below MDL	**	100	94	**94**	Below MDL	91	**91**	86	88.9	97
Copper	1	86	109	-23.59	100	199	**113**	Below MDL	100	**100**	98	95	103

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 2/10/2004
Matrix: Soil
QC Sample AM02124
Total Metal

Lab Number	*Description*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM02766	EPX-27 (AM01067)						
		1/9/04	2/11/04	Arsenic	9.4	2	mg/kg
		1/9/04	2/11/04	Lead	45	1	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 2/9/2004

Quality Assurance Statement for Sample: **AM02124**

Original: AM02124 **Spike Sample:** AM02663 **Blank Sample:** AM02665

Duplicate: AM02662 **Blank Sample:** AM02664 **Reference Sample:** AM02666 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	76	66	14.08	100	158	**82**	Below MDL	96	**96**			
Arsenic	2	2120	2200	-3.70	100	2240	**120**	Below MDL	97	**97**	134	129	104
Barium	2	16300	16600	-1.82	100	16600	*	Below MDL	98	**98**	206	220	94
Cadmium	0.5	98	107	-8.78	100	178	**80**	Below MDL	96	**96**	87	89.2	98
Chromium	1	618	647	-4.58	100	728	**110**	Below MDL	97	**97**	101	105	96
Lead	1	1680	1880	-11.24	100	1810	*	Below MDL	95	**95**	58	60.6	96
Selenium	2	167	140	17.59	100	250	**83**	Below MDL	100	**100**	93	88.9	105
Copper	1	166000	142000	15.58	100	163000	*	Below MDL	126	**126**	104	95	109

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Certificate of Analysis

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 1/29/2004
Matrix: Soil
QC Sample AM01858
Total Metal

Lab Number	*Description*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM01860	EPX-30						
		1/28/04	1/30/04	Arsenic	10	2	mg/kg
		1/28/04	2/12/04	Soil Paste Conductivity	2420		umhos/cm
		1/28/04	1/30/04	Lead	52	1	mg/kg
		1/28/04	2/12/04	pH Paste	7.75		
		1/28/04	2/13/04	Sulfate - Leachable	1980	5	mg/Kg
		1/28/04	2/17/04	Sulfate in Soils	1800	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 1/30/2004

Quality Assurance Statement for Sample: **AM01858**

Original: AM01858 **Spike Sample:** AM01931 **Blank Sample:** AM01933

Duplicate: AM01930 **Blank Sample:** AM01932 **Reference Sample:** AM01934 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	1	1	0.00	100	96	**96**	Below MDL	95	**95**			
Arsenic	2	23	22	4.44	100	115	**92**	Below MDL	96	**96**	128	129	99
Barium	2	118	108	8.85	100	217	**99**	Below MDL	95	**95**	201	220	91
Cadmium	0.5	5	4	22.22	100	94	**94**	Below MDL	92	**92**	82	89.2	92
Chromium	1	18	18	0.00	100	115	**97**	Below MDL	96	**96**	99	105	94
Lead	1	866	890	-2.73	100	794	*	Below MDL	93	**93**	55	60.6	91
Selenium	2	10	10	0.00	100	95	**85**	Below MDL	91	**91**	82	88.9	92
Copper	1	454	517	-12.98	100	100	*	Below MDL	99	**99**	100	95	105

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 02-Mar-04

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 6010B and 7471*

Submission Date: 2/18/2004

QC Reference Sample: AM03055

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM03360	EPX-31	2/18/2004	2/26/2004	pH Paste	**7.60**		
			2/19/2004	Arsenic	**7.7**	2	mg/kg
			2/19/2004	Lead	**43**	1	mg/kg
			3/1/2004	Sulfate - Leach	**1440**	5	mg/Kg
			2/26/2004	Sulfate in Soils	**630**	500	mg/kg
			2/26/2004	Soil Paste Con	**2090**		umhos/cm

Approved by

Lynn A. Hutchinson

Approved By. Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 2/18/2004

Quality Assurance Statement for Sample: **AM03055**

Original: AM03055 **Spike Sample:** AM03208 **Blank Sample:** AM03209

Duplicate: AM03207 **Blank Sample:** AM03209 **Reference Sample:** AM03210 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	9	9	0.00	100	103	**94**	Below MDL	98	**98**	132	129	102
Lead	1	37	37	0.00	100	138	**101**	Below MDL	95	**95**	57	60.6	94

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/1/2004

EHUD ARDON

Submission Date: 2/11/2004
Matrix: Soil

Sample Preparation: SW846 Method 3050B

QC Sample AM02887
Total Metal

Sample Analysis: SW846 Method 6010

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM02884	EPX-32						
		2/10/04	2/12/04	Arsenic	10	2	mg/kg
		2/10/04	2/12/04	Soil Paste Conductivity	2070		umhos/cm
		2/10/04	2/12/04	Lead	30	0.05	mg/kg
		2/10/04	2/12/04	pH Paste	7.76		
		2/10/04	2/13/04	Sulfate - Leachable	1700	5	mg/Kg
		2/10/04	2/17/04	Sulfate in Soils	6600	500	mg/kg
AM02885	EPX-33						
		2/10/04	2/12/04	Arsenic	10	2	mg/kg
		2/10/04	2/12/04	Soil Paste Conductivity	2170		umhos/cm
		2/10/04	2/12/04	Lead	47	0.05	mg/kg
		2/10/04	2/12/04	pH Paste	7.56		
		2/10/04	2/13/04	Sulfate - Leachable	1830	5	mg/Kg
		2/10/04	2/17/04	Sulfate in Soils	8400	500	mg/kg
AM[illegible]86	EPX-34						
		2/10/04	2/12/04	Arsenic	17	2	mg/kg
		2/10/04	2/12/04	Soil Paste Conductivity	2070		umhos/cm
		2/10/04	2/12/04	Lead	38	0.05	mg/kg
		2/10/04	2/12/04	pH Paste	7.61		
		2/10/04	2/13/04	Sulfate - Leachable	1760	5	mg/Kg
		2/10/04	2/17/04	Sulfate in Soils	6300	500	mg/kg
AM02887	EPX-35						
		2/10/04	2/12/04	Arsenic	13	2	mg/kg
		2/10/04	2/12/04	Soil Paste Conductivity	2330		umhos/cm
		2/10/04	2/12/04	Lead	45	0.05	mg/kg
		2/10/04	2/12/04	pH Paste	7.72		
		2/10/04	2/13/04	Sulfate - Leachable	2000	5	mg/Kg
		2/10/04	2/17/04	Sulfate in Soils	18000	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 2/11/2004

Quality Assurance Statement for Sample: **AM02884 - AM2887**

Original: AM02887 **Spike Sample:** AM02954 **Blank Sample:** AM02956

Duplicate: AM02953 **Blank Sample:** AM02955 **Reference Sample:** AM02957 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	93	**93**			
Arsenic	2	13	15	-14.29	100	110	**97**	Below MDL	97	**97**	140	129	109
Barium	2	57	54	5.41	100	146	**89**	Below MDL	91	**91**	227	220	103
Cadmium	0.5	Below MDL	Below MDL	**	100	92.7	**93**	Below MDL	95	**95**	88	89.2	99
Chromium	1	29	29	0.00	100	125	**96**	Below MDL	95	**95**	104	105	99
Lead	1	45	39	14.29	100	171	**126**	Below MDL	95	**95**	61	60.6	101
Selenium	2	2	2	0.00	100	98	**96**	Below MDL	100	**100**	96	88.9	108

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Phone (801) 569-7950
Fax: (801) 569-7901

Date 3/3/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 2/18/2004
Matrix: Soil
QC Sample AM03359
Total Metal

Lab Number	Description	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AM03357	EPX-36						
		2/18/04	2/19/04	Arsenic	9.9	2	mg/kg
		2/18/04	2/19/04	Lead	47	1	mg/kg
		2/18/04	2/26/04	pH Paste	7.69		
		2/18/04	2/26/04	Sulfate in Soils	3000	500	mg/kg
		2/18/04	2/26/04	Soil Paste Conductivity	2420		umhos/cm
		2/18/04	3/1/04	Sulfate - Leachable	1630	5	mg/Kg
AM03358	EPX-37						
		2/18/04	2/26/04	Soil Paste Conductivity	1310		umhos/cm
		2/18/04	3/1/04	Sulfate - Leachable	688	5	mg/Kg
		2/18/04	2/19/04	Arsenic	13	2	mg/kg
		2/18/04	2/19/04	Lead	50	1	mg/kg
		2/18/04	2/26/04	pH Paste	7.72		
		2/18/04	2/26/04	Sulfate in Soils	900	500	mg/kg
[illegible]59	EPX-38						
		2/18/04	2/19/04	Silver	Below MDL	1	mg/kg
		2/18/04	2/19/04	Arsenic	17	2	mg/kg
		2/18/04	2/19/04	Barium	79	2	mg/kg
		2/18/04	2/19/04	Copper	77	1.0	mg/kg
		2/18/04	2/19/04	Lead	52	1	mg/kg
		2/18/04	2/26/04	pH Paste	7.56		
		2/18/04	2/19/04	Selenium	8.2	2	mg/kg
		2/18/04	2/26/04	Sulfate in Soils	800	500	mg/kg
		2/18/04	2/19/04	Cadmium	0.9	0.5	mg/kg
		2/18/04	2/26/04	Soil Paste Conductivity	2330		umhos/cm
		2/18/04	2/19/04	Chromium	11	1.0	mg/kg
		2/18/04	3/1/04	Sulfate - Leachable	1660	5	mg/Kg
AM03360	EPX-31						
		2/18/04	2/26/04	Soil Paste Conductivity	2090		umhos/cm
		2/18/04	3/1/04	Sulfate - Leachable	1440	5	mg/Kg
		2/18/04	2/19/04	Arsenic	7.7	2	mg/kg
		2/18/04	2/19/04	Lead	43	1	mg/kg
		2/18/04	2/26/04	pH Paste	7.60		
		2/18/04	2/26/04	Sulfate in Soils	630	500	mg/kg

Lynn A. Hutchinson

[illegible]ed By: Lynn A. Hutchinson CIH
[illegible]boratory Director

Approved by:

Kennecott Environmental Laboratory

Total Metals

Submission Date: 2/19/2004

Quality Assurance Statement for Sample: **AM03359**

Original: AM03359 **Spike Sample:** AM03387 **Blank Sample:** AM03389

Duplicate: AM03386 **Blank Sample:** AM03388 **Reference Sample:** AM03390 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	93	**93**			
Arsenic	2	17	11	42.86	100	125	**108**	Below MDL	95	**95**	133	129	103
Barium	2	79	90	-13.02	100	170	**91**	Below MDL	95	**95**	211	220	96
Cadmium	0.5	0.9	Below MDL	**	100	91	**90**	Below MDL	95	**95**	88	89.2	99
Chromium	1	11	6.8	47.19	100	101	**90**	Below MDL	95	**95**	104	105	99
Lead	1	52	31	50.60	100	120	**89**	Below MDL	97	**97**	61	60.6	101
Selenium	2	8.2	Below MDL	**	100	93	**93**	Below MDL	93	**93**	85	88.9	96
Copper	1	77	67	13.89	100	167	**90**	Below MDL	96	**96**	96	95	101

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Phone (801) 569-7950
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Date 6/1/2004

EHUD ARDON

Submission Date: 2/26/2004
Matrix: Soil

Sample Preparation: SW846 Method 3050B

QC Sample AM03923
Total Metal

Sample Analysis: SW846 Method 6010

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM03923	EPX-39						
		2/25/04	3/2/04	Arsenic	17	2	mg/kg
		2/25/04	2/26/04	Soil Paste Conductivity	2410		umhos/cm
		2/25/04	3/2/04	Lead	26	0.05	mg/kg
		2/25/04	2/26/04	pH Paste	7.58		
		2/25/04	3/1/04	Sulfate - Leachable	1620	5	mg/Kg
		2/25/04	3/30/04	Sulfate in Soils	40500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 3/1/2004

Quality Assurance Statement for Sample: **AM03923**

Original: AM03923 **Spike Sample:** AM04033 **Blank Sample:** AM04035

Duplicate: AM04032 **Blank Sample:** AM04034 **Reference Sample:** AM04036 0017-15-02

Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
1	Below MDL	Below MDL	**	100	95	**95**	Below MDL	96	**96**			
2	14	16	-13.33	100	111	**97**	Below MDL	98	**98**	136	129	105
2	126	118	6.56	100	218	**92**	Below MDL	98	**98**	207	220	94
0.5	5	5.2	-3.92	100	98	**93**	Below MDL	97	**97**	86	89.2	96
1	20	19	5.13	100	117	**97**	Below MDL	98	**98**	102	105	97
1	129	118	8.91	100	218	**100**	Below MDL	98	**98**	62	61	102
2	6	Below MDL	**	100	92	**86**	Below MDL	95	**95**	88	88.9	99

ncentration is 10 times higher than the spike amount.

ot greater than 10 times the MDL. An RPD cannot be calculated.

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Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 3/15/2004
Matrix: Soil
QC Sample AM05108
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM05105	EPX-40						
		3/10/04	3/17/04	Arsenic	32	2	mg/kg
		3/10/04	3/25/04	Soil Paste Conductivity	2190		umhos/cm
		3/10/04	3/17/04	Lead	39	1	mg/kg
		3/10/04	3/25/04	pH Paste	7.49		
		3/10/04	4/9/04	Sulfate - Leachable	1600	5	mg/Kg
		3/10/04	3/30/04	Sulfate in Soils	16800	500	mg/kg
AM05106	EPX-41						
		3/12/04	3/17/04	Arsenic	16	2	mg/kg
		3/12/04	3/25/04	Soil Paste Conductivity	2850		umhos/cm
		3/12/04	3/17/04	Lead	43	1	mg/kg
		3/12/04	3/25/04	pH Paste	7.62		
		3/12/04	4/9/04	Sulfate - Leachable	2000	5	mg/Kg
		3/12/04	3/30/04	Sulfate in Soils	7500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 3/16/2004

Quality Assurance Statement for Sample: **AM05108**

Original: AM05108 **Spike Sample:** AM05123 **Blank Sample:** AM05125

Duplicate: AM05122 **Blank Sample:** AM05124 **Reference Sample:** AM05126 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	99	**99**	Below MDL	96	**96**			
Arsenic	2	14	15	-6.90	100	117	**103**	Below MDL	99	**99**	138	129	107
Barium	2	84	77	8.70	100	182	**98**	Below MDL	99	**99**	213	220	97
Cadmium	0.5	4.7	4	**	100	96	**91**	Below MDL	97	**97**	88	89.2	99
Chromium	1	13	13	0.00	100	112	**99**	Below MDL	98	**98**	105	105	100
Lead	1	50	50	0.00	100	243	**193**	Below MDL	96	**96**	61	61	100
Selenium	2	9.4	9.5	**	100	108	**108**	Below MDL	94	**94**	97.5	88.9	110
Copper	1	166	204	-20.54	100	308	**104**	Below MDL	100	**100**	101	95	106

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
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Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 4/15/2004
Matrix: Soil
QC Sample AM07654
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM07651	EPX-42						
		4/13/04	4/19/04	Arsenic	16	2	mg/kg
		4/13/04	4/28/04	Soil Paste Conductivity	2500		umhos/cm
		4/13/04	4/19/04	Lead	42	0.05	mg/kg
		4/13/04	4/28/04	pH Paste	8.11		
		4/13/04	4/28/04	Sulfate - Leachable	1920	5	mg/Kg
		4/13/04	4/22/04	Sulfate in Soils	10500	500	mg/kg
AM07652	EPX-43						
		4/13/04	4/19/04	Arsenic	14	2	mg/kg
		4/13/04	4/28/04	Soil Paste Conductivity	2410		umhos/cm
		4/13/04	4/19/04	Lead	36	0.05	mg/kg
		4/13/04	4/28/04	pH Paste	8.01		
		4/13/04	4/28/04	Sulfate - Leachable	1920	5	mg/Kg
		4/13/04	4/22/04	Sulfate in Soils	11700	500	mg/kg
AM07653	EPX-44						
		4/13/04	4/19/04	Arsenic	12	2	mg/kg
		4/13/04	4/28/04	Soil Paste Conductivity	2170		umhos/cm
		4/13/04	4/19/04	Lead	42	0.05	mg/kg
		4/13/04	4/28/04	pH Paste	8.09		
		4/13/04	4/28/04	Sulfate - Leachable	1780	5	mg/Kg
		4/13/04	4/22/04	Sulfate in Soils	5700	500	mg/kg
AM07654	EPX-45						
		4/13/04	4/20/04	Silver	2	1	mg/kg
		4/13/04	4/19/04	Arsenic	20	2	mg/kg
		4/13/04	4/20/04	Barium	137	2	mg/kg
		4/13/04	4/20/04	Cadmium	0.8	0.5	mg/kg
		4/13/04	4/28/04	Soil Paste Conductivity	2220		umhos/cm
		4/13/04	4/20/04	Chromium	14	1.0	mg/kg
		4/13/04	4/20/04	Copper	353	1.0	mg/kg
		4/13/04	4/19/04	Lead	64	0.05	mg/kg
		4/13/04	4/28/04	pH Paste	7.97		
		4/13/04	4/20/04	Selenium	2	2	mg/kg
		4/13/04	4/28/04	Sulfate - Leachable	1780	5	mg/Kg
		4/13/04	4/22/04	Sulfate in Soils	16800	500	mg/kg

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Total Metals

Submission Date: 4/19/2004

Quality Assurance Statement for Sample: **AM07651 - AM07654**

Original: AM07651 - AM07654 **Spike Sample:** AM07825 **Blank Sample:** AM07827

Duplicate: AM07824 **Blank Sample:** AM07826 **Reference Sample:** AM07828 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	2	2	**	100	96	**96**	Below MDL	95	**95**			
Arsenic	2	20	15	**	100	117	**97**	Below MDL	102	**99**	136	129	105
Barium	2	137	158	-14.24	100	214	**77**	Below MDL	98	**98**	239	220	109
Cadmium	0.5	0.8	0.7	**	100	94	**93**	Below MDL	93	**93**	97	89.2	109
Chromium	1	14	12	15.38	100	111	**97**	Below MDL	97	**97**	119	105	113
Lead	1	64	63	1.57	100	143	**80**	Below MDL	96	**106**	58.3	61	96
Selenium	2	2	Below MDL	**	100	100	**100**	Below MDL	88	**88**	98	88.9	110

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
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Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 4/28/2004
Matrix: Soil
QC Sample AM08500
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM08602	EPX-46						
		4/22/04	4/29/04	Arsenic	13	2	mg/kg
		4/22/04	5/7/04	Soil Paste Conductivity	2720		umhos/cm
		4/22/04	4/29/04	Lead	49	0.05	mg/kg
		4/22/04	5/7/04	pH Paste	6.11		
		4/22/04	5/5/04	Sulfate - Leachable	1880	5	mg/Kg
		4/22/04	5/19/04	Sulfate in Soils	45000	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 4/29/2004

Quality Assurance Statement for Sample: **AM08500**

Original: AM08500 **Spike Sample:** AM08662 **Blank Sample:** AM08664

Duplicate: AM08661 **Blank Sample:** AM08663 **Reference Sample:** AM08665 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	18	17	5.71	100	120	**102**	Below MDL	99	**99**	138	129	107
Lead	1	46	45	2.20	100	138	**93**	Below MDL	100	**106**	58	61	95

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** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
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Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 5/7/2004
Matrix: Soil
QC Sample AM09282
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM09246	EPX-47						
		5/6/04	5/12/04	Soil Paste Conductivity	2990		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	2010	5	mg/Kg
		5/6/04	5/10/04	Arsenic	13	2	mg/kg
		5/6/04	5/10/04	Lead	43	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.40		
		5/6/04	5/19/04	Sulfate in Soils	18600	500	mg/kg
AM09247	EPX-48						
		5/6/04	5/10/04	Arsenic	16	2	mg/kg
		5/6/04	5/10/04	Lead	38	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.58		
		5/6/04	5/19/04	Sulfate in Soils	5700	500	mg/kg
		5/6/04	5/12/04	Soil Paste Conductivity	2420		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	1720	5	mg/Kg
AM09248	EPX-49						
		5/6/04	5/12/04	Soil Paste Conductivity	2910		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	1890	5	mg/Kg
		5/6/04	5/10/04	Arsenic	17	2	mg/kg
		5/6/04	5/10/04	Lead	38	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.57		
		5/6/04	5/19/04	Sulfate in Soils	29100	500	mg/kg
AM09249	EPX-50						
		5/6/04	5/10/04	Arsenic	16	2	mg/kg
		5/6/04	5/10/04	Lead	36	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.72		
		5/6/04	5/19/04	Sulfate in Soils	6300	500	mg/kg
		5/6/04	5/12/04	Soil Paste Conductivity	2520		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	1790	5	mg/Kg

Lab Number	Descrription	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AM09250	EPX-51						
		5/6/04	5/12/04	Soil Paste Conductivity	2790		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	1930	5	mg/Kg
		5/6/04	5/10/04	Arsenic	17	2	mg/kg
		5/6/04	5/10/04	Lead	44	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.67		
		5/6/04	5/19/04	Sulfate in Soils	25800	500	mg/kg
AM09251	EPX-52						
		5/6/04	5/10/04	Arsenic	13	2	mg/kg
		5/6/04	5/10/04	Lead	36	0.05	mg/kg
		5/6/04	5/12/04	pH Paste	6.79		
		5/6/04	5/19/04	Sulfate in Soils	7200	500	mg/kg
		5/6/04	5/12/04	Soil Paste Conductivity	2510		umhos/cm
		5/6/04	5/12/04	Sulfate - Leachable	1810	5	mg/Kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 5/10/2004

Quality Assurance Statement for Sample: **AM09240 - AM09251**
AM09282 - AM09283

Original: AM09282 **Spike Sample:** AM09367 **Blank Sample:** AM09369

Duplicate: AM09366 **Blank Sample:** AM09368 **Reference Sample:** AM09370 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	2	1	**	100	96	**94**	Below MDL	95	**95**			
Arsenic	2	16	15	6.45	100	112	**96**	Below MDL	99	**99**	136	129	105
Barium	2	75	74	1.34	100	172	**97**	Below MDL	100	**100**	214	220	97
Cadmium	0.5	0.7	0.6	**	100	92	**91**	Below MDL	96	**96**	86	89.2	96
Chromium	1	76	72	5.41	100	168	**92**	Below MDL	100	**100**	108	105	103
Lead	1	50	46	8.33	100	134	**88**	Below MDL	93	**106**	54	61	89
Selenium	2	Below MDL	Below MDL	**	100	92	**92**	Below MDL	89	**89**	87	88.9	98

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g

Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 5/18/2004
QC: Sample#: AM10252
Login Group: 05180933

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM09937	EPX-53						
		5/14/04	5/25/04	Arsenic	17	2	mg/kg
		5/14/04	6/2/04	Soil Paste Conductivity	2680		umhos/cm
		5/14/04	5/25/04	Lead	30	0.05	mg/kg
		5/14/04	6/2/04	pH Paste	7.75		
		5/14/04	6/15/04	Sulfate - Leachable	1600	5	mg/Kg
		5/14/04	5/19/04	Sulfate in Soils	9000	500	mg/kg
AM09938	EPX-54						
		5/14/04	5/25/04	Arsenic	12	2	mg/kg
		5/14/04	6/2/04	Soil Paste Conductivity	2670		umhos/cm
		5/14/04	5/25/04	Lead	31	0.05	mg/kg
		5/14/04	6/2/04	pH Paste	7.71		
		5/14/04	6/15/04	Sulfate - Leachable	1840	5	mg/Kg
		5/14/04	5/19/04	Sulfate in Soils	17700	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
EEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 5/24/2004

Quality Assurance Statement for Sample: **AM09937 - AM09938**
AM10252 - AM10253

Original: AM10252 **Spike Sample:** AM10330 **Blank Sample:** AM10332

Duplicate: AM10329 **Blank Sample:** AM10331 **Reference Sample:** AM10333 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	5	**	100	92	**92**	Below MDL	91	**91**			
Arsenic	2	18	14	25.00	100	109	**91**	Below MDL	94	**99**	129	129	100
Barium	2	214	211	1.41	100	290	**76**	Below MDL	97	**97**	206	220	94
Cadmium	0.5	3.3	3.7	**	100	91	**88**	Below MDL	93	**93**	83	89.2	93
Chromium	1	38	35	8.22	100	121	**83**	Below MDL	96	**96**	101	105	96
Lead	1	219	257	-15.97	100	298	**79**	Below MDL	95	**106**	55	61	90
Selenium	2	Below MDL	Below MDL	**	100	86	**86**	Below MDL	85	**85**	80	88.9	90

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g

Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 6/1/2004
QC: Sample#: AM11091
Login Group: 06010903

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM11087	EPX-55						
		5/26/04	6/7/04	Arsenic	15	2	mg/kg
		5/26/04	6/11/04	Soil Paste Conductivity	5.41		umhos/cm
		5/26/04	6/7/04	Lead	42	0.05	mg/kg
		5/26/04	6/11/04	pH Paste	2750		
		5/26/04	6/15/04	Sulfate - Leachable	1760	5	mg/Kg
		5/26/04	6/9/04	Sulfate in Soils	7200	500	mg/kg
AM11088	EPX-56						
		5/26/04	6/7/04	Arsenic	13	2	mg/kg
		5/26/04	6/11/04	Soil Paste Conductivity	6.17		umhos/cm
		5/26/04	6/7/04	Lead	45	0.05	mg/kg
		5/26/04	6/11/04	pH Paste	500		
		5/26/04	6/15/04	Sulfate - Leachable	174	5	mg/Kg
		5/26/04	6/9/04	Sulfate in Soils	810	500	mg/kg
AM11089	EPX-57						
		5/26/04	6/7/04	Arsenic	10	2	mg/kg
		5/26/04	6/11/04	Soil Paste Conductivity	6.13		umhos/cm
		5/26/04	6/7/04	Lead	31	0.05	mg/kg
		5/26/04	6/11/04	pH Paste	2700		
		5/26/04	6/15/04	Sulfate - Leachable	1060	5	mg/Kg
		5/26/04	6/9/04	Sulfate in Soils	7800	500	mg/kg
AM11090	EPX-58						
		5/26/04	6/7/04	Arsenic	14	2	mg/kg
		5/26/04	6/11/04	Soil Paste Conductivity	6.21		umhos/cm
		5/26/04	6/7/04	Lead	42	0.05	mg/kg
		5/26/04	6/11/04	pH Paste	3500		
		5/26/04	6/15/04	Sulfate - Leachable	2230	5	mg/Kg
		5/26/04	6/9/04	Sulfate in Soils	7200	500	mg/kg
AM11091	EPX-59						
		5/26/04	6/7/04	Silver	Below MDL	1	mg/kg
		5/26/04	6/7/04	Arsenic	11	2	mg/kg
		5/26/04	6/7/04	Barium	140	2	mg/kg
		5/26/04	6/7/04	Cadmium	0.6	0.5	mg/kg
		5/26/04	6/11/04	Soil Paste Conductivity	6.80		umhos/cm
		5/26/04	6/7/04	Chromium	15	1.0	mg/kg
		5/26/04	6/7/04	Copper	68	1.0	mg/kg
		5/26/04	6/7/04	Lead	33	0.05	mg/kg
		5/26/04	6/11/04	pH Paste	2220		
		5/26/04	6/7/04	Selenium	Below MDL	2	mg/kg
		5/26/04	6/15/04	Sulfate - Leachable	1920	5	mg/Kg
		5/26/04	6/9/04	Sulfate in Soils	4500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/7/2003

Quality Assurance Statement for Samples: **AM11087 - AM11091**

Original: AM11091 **Spike Sample:** AM11654 **Blank Sample:** AM11656

Duplicate: AM11653 **Blank Sample:** AM11655 **Reference Sample:** AM11657 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	92	**92**	Below MDL	93	**93**	NA	NA	NA
Arsenic	2	11	10	9.52	100	105	**94**	Below MDL	93	**96**	133	129	103
Barium	2	140	143	-2.12	100	256	**116**	Below MDL	96	**96**	208	220	95
Cadmium	0.5	0.6	0.6	0.00	100	87	**86**	Below MDL	91	**91**	83	89.2	93
Chromium	1	15	16	-6.45	100	115	**100**	Below MDL	96	**96**	103	105	98
Lead	1	33	35	-5.88	100	125	**92**	Below MDL	93	**106**	58	61	95
Selenium	20	Below MDL	Below MDL	**	100	81	**81**	Below MDL	82	**82**	79	88.9	89
Copper	1	68	71	-4.32	100	173	**173**	Below MDL	99	**99**	98	95	103

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 30-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/8/2004

QC Reference Sample: **AM11779**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM11779	EPX-60	6/7/2004	6/11/2004	pH Paste	**2570**		
			6/14/2004	Arsenic	**25**	2	mg/kg
			8/1/2005	Barium	**101**	2	mg/kg
			8/1/2005	Cadmium	**4**	1	mg/kg
			8/1/2005	Chromium	**17**	2	mg/kg
			6/14/2004	Lead	**42**	3	mg/kg
			8/1/2005	Selenium	**4**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			6/15/2004	Sulfate - Leachable	**2290**	5	mg/Kg
			6/9/2004	Sulfate in Soils	**27600**	500	mg/kg
			6/11/2004	Soil Paste Conductivity	**6.60**		umhos/cm
AM11780	EPX-61	6/7/2004	6/11/2004	pH Paste	**2530**		
			6/14/2004	Arsenic	**21**	2	mg/kg
			8/1/2005	Barium	**107**	2	mg/kg
			8/1/2005	Cadmium	**1**	1	mg/kg
			8/1/2005	Chromium	**16**	2	mg/kg
			6/14/2004	Lead	**86**	3	mg/kg
			8/1/2005	Selenium	**2**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			6/15/2004	Sulfate - Leachable	**2160**	5	mg/Kg
			6/9/2004	Sulfate in Soils	**35100**	500	mg/kg
			6/11/2004	Soil Paste Conductivity	**6.55**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/11/2004

Quality Assurance Statement for Samples: **AM11779 - AM11780**

Original: AM11779 **Spike Sample:** AM12098 **Blank SPIKE:** AM12100

Duplicate: AM12097 **Blank Sample:** AM12099 **Reference Sample:** AM12101 0039-30-25

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	25	23	8.33	100	114	**91**	Below MDL	94	**94**	132	136	**97**
Lead	1	42	43	-2.35	100	132	**89**	Below MDL	97	**94**	57.6	74.2	**78**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

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EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 6/21/2004
QC: Sample#: AM12932
Login Group: 06210641

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM12859	EPX-62						
		6/16/04	6/24/04	Arsenic	7	2	mg/kg
		6/16/04	7/2/04	Soil Paste Conductivity	1520		umhos/cm
		6/16/04	6/24/04	Lead	48	1	mg/kg
		6/16/04	7/2/04	pH Paste	7.75		
		6/16/04	7/30/04	Sulfate - Leachable	1690	5	mg/Kg
		6/16/04	7/30/04	Sulfate in Soils	3600	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/23/2004

Quality Assurance Statement for Samples: **AM09520 - AM09530**
AM12859
AM12925 - AM12932

Original: AM12932 **Spike Sample:** AM13000 **Blank SPIKE:** AM13002

Duplicate: AM12999 **Blank Sample:** AM13001 **Reference Sample:** AM13003 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	96	**96**	Below MDL	99	**99**	NA	NA	NA
Arsenic	2	23	28	-19.61	100	129	**106**	Below MDL	100	**96**	135	129	105
Barium	2	131	122	2.00	100	244	**113**	Below MDL	105	**105**	215	220	98
Cadmium	0.5	2.2	2.9	**	100	95	**93**	Below MDL	99	**99**	86	89.2	96
Chromium	1	20	19	5.13	100	118	**98**	Below MDL	104	**104**	106	105	101
Lead	1	553	573	-3.55	100	1200	*	Below MDL	102	**106**	59	61	97
Selenium	2	Below MDL	2	**	100	83	**83**	Below MDL	90	**90**	80	88.9	90
Copper	1	1050	1070	-1.89	100	1570	*	Below MDL	108	**108**	101	95	106

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 7/30/2004
QC: Sample#: AM16107
Login Group: 07301126

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM16097	EPX-63						
		7/29/04	8/2/04	Arsenic	13	2	mg/kg
		7/29/04	8/3/04	Soil Paste Conductivity	2210		umhos/cm
		7/29/04	8/2/04	Lead	33	0.05	mg/kg
		7/29/04	8/3/04	pH Paste	7.34		
		7/29/04	8/24/04	Sulfate - Leachable	1510	5	mg/Kg
		7/29/04	8/5/04	Sulfate in Soils	9600	500	mg/kg
AM16098	EPX-64						
		7/29/04	8/2/04	Arsenic	22	2	mg/kg
		7/29/04	8/3/04	Soil Paste Conductivity	2650		umhos/cm
		7/29/04	8/2/04	Lead	37	0.05	mg/kg
		7/29/04	8/3/04	pH Paste	7.02		
		7/29/04	8/24/04	Sulfate - Leachable	1870	5	mg/Kg
		7/29/04	8/5/04	Sulfate in Soils	4200	500	mg/kg
AM16099	EPX-65						
		7/29/04	8/2/04	Arsenic	15	2	mg/kg
		7/29/04	8/3/04	Soil Paste Conductivity	3250		umhos/cm
		7/29/04	8/2/04	Lead	72	0.05	mg/kg
		7/29/04	8/3/04	pH Paste	6.76		
		7/29/04	8/24/04	Sulfate - Leachable	2130	5	mg/Kg
		7/29/04	8/5/04	Sulfate in Soils	10800	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/2/2004

Quality Assurance Statement for Samples: **AM15970**
AM15971
AM16097 - AM16108

Original: AM16107 **Spike Sample:** AM16122 **Blank SPIKE:** AM16124

Duplicate: AM16121 **Blank Sample:** AM16123 **Reference Sample:** AM16125 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	6	7	-15.38	100	108	**102**	Below MDL	102	**102**	NA	NA	
Arsenic	2	95	109	-13.73	100	198	**103**	Below MDL	99	**96**	135	129	105
Barium	2	143	145	-1.39	100	242	**99**	Below MDL	101	**101**	226	220	103
Cadmium	0.5	1.8	2	-10.53	100	96	**94**	Below MDL	97	**97**	89	89.2	100
Chromium	1	20	20	0.00	100	119	**99**	Below MDL	100	**100**	109	105	104
Lead	1	2340	3000	-24.72	100	2480	**140**	Below MDL	104	**106**	62	61	102
Selenium	2	3	3	0.00	100	90	**87**	Below MDL	89	**89**	86	88.9	97
Copper	1	850	1070	-22.92	100	973	**123**	Below MDL	104	**104**	105	95	111

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 8/5/2004
QC: Sample#: AM16387
Login Group: 08051314

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM16379	EPX-66						
		8/4/04	8/9/04	Arsenic	12	2	mg/kg
		8/4/04	8/25/04	Soil Paste Conductivity	2500		umhos/cm
		8/4/04	8/9/04	Lead	39	0.05	mg/kg
		8/4/04	8/25/04	pH Paste	8.53		
		8/4/04	8/24/04	Sulfate - Leachable	1820	5	mg/Kg
		8/4/04	9/14/04	Sulfate in Soils	2940	500	mg/kg
AM16380	EPX-67						
		8/4/04	8/9/04	Arsenic	11	2	mg/kg
		8/4/04	8/25/04	Soil Paste Conductivity	440		umhos/cm
		8/4/04	8/9/04	Lead	36	0.05	mg/kg
		8/4/04	8/25/04	pH Paste	8.67		
		8/4/04	8/24/04	Sulfate - Leachable	230	5	mg/Kg
		8/4/04	9/14/04	Sulfate in Soils	510	500	mg/kg
AM16381	EPX-68						
		8/4/04	8/9/04	Arsenic	11	2	mg/kg
		8/4/04	8/25/04	Soil Paste Conductivity	710		umhos/cm
		8/4/04	8/9/04	Lead	34	0.05	mg/kg
		8/4/04	8/25/04	pH Paste	8.47		
		8/4/04	8/24/04	Sulfate - Leachable	365	5	mg/Kg
		8/4/04	9/14/04	Sulfate in Soils	1200	500	mg/kg
AM16382	EPX-CS1						
		8/4/04	8/9/04	Arsenic	19	2	mg/kg
		8/4/04	8/25/04	Soil Paste Conductivity	800		umhos/cm
		8/4/04	8/9/04	Lead	57	0.05	mg/kg
		8/4/04	8/25/04	pH Paste	8.29		
		8/4/04	8/24/04	Sulfate - Leachable	459	5	mg/Kg
		8/4/04	9/14/04	Sulfate in Soils	5040	500	mg/kg
AM16383	EPX-CS2						
		8/4/04	8/9/04	Arsenic	11	2	mg/kg
		8/4/04	8/25/04	Soil Paste Conductivity	2200		umhos/cm
		8/4/04	8/9/04	Lead	58	0.05	mg/kg
		8/4/04	8/25/04	pH Paste	8.07		
		8/4/04	8/24/04	Sulfate - Leachable	1740	5	mg/Kg
		8/4/04	9/14/04	Sulfate in Soils	16200	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/9/2004

Quality Assurance Statement for Samples: **AM16379 - AM16387**
AM16490 - AM16500

Original: AM16387 **Spike Sample:** AM16521 **Blank SPIKE:** AM16523

Duplicate: AM16520 **Blank Sample:** AM16522 **Reference Sample:** AM16524 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	100	**100**	Below MDL	99	**99**	NA	NA	
Arsenic	2	21	20	4.88	100	124	**103**	Below MDL	99	**96**	141	129	109
Barium	2	206	201	2.46	100	291	**85**	Below MDL	103	**103**	230	220	105
Cadmium	0.5	2.5	2.4	4.08	100	98	**96**	Below MDL	100	**100**	91.2	89.2	102
Chromium	1	26	24	8.00	100	123	**97**	Below MDL	101	**101**	109	105	104
Lead	1	618	662	-6.88	100	785	**123**	Below MDL	99	**106**	61.4	61	101
Selenium	2	Below MDL	Below MDL	**	100	82	**82**	Below MDL	88	**88**	81	88.9	91
Copper	1	1360	1290	5.28	100	1260	*	Below MDL	106	**106**	106	95	112

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g

Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 8/27/2004
QC: Sample#: AM17557
Login Group: 08270948

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM17548	EPX-69						
		8/26/04	8/31/04	Arsenic	22	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	3630		umhos/cm
		8/26/04	8/31/04	Lead	82	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.48		
		8/26/04	9/9/04	Sulfate - Leachable	1830	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	31100	500	mg/kg
AM17549	EPX-70						
		8/26/04	8/31/04	Arsenic	8	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	2580		umhos/cm
		8/26/04	8/31/04	Lead	80	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	8.30		
		8/26/04	9/9/04	Sulfate - Leachable	1710	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	24000	500	mg/kg
AM17550	EPX-71						
		8/26/04	8/31/04	Arsenic	12	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	3450		umhos/cm
		8/26/04	8/31/04	Lead	47	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.91		
		8/26/04	9/9/04	Sulfate - Leachable	1820	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	8400	500	mg/kg
AM17551	EPX-72						
		8/26/04	8/31/04	Arsenic	12	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	3020		umhos/cm
		8/26/04	8/31/04	Lead	48	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.83		
		8/26/04	9/9/04	Sulfate - Leachable	1770	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	10800	500	mg/kg
AM17552	EPX-73						
		8/26/04	8/31/04	Arsenic	11	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	2500		umhos/cm
		8/26/04	8/31/04	Lead	44	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.73		
		8/26/04	9/9/04	Sulfate - Leachable	1600	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	11300	500	mg/kg
AM17553	EPX-74						
		8/26/04	8/31/04	Arsenic	11	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	1630		umhos/cm
		8/26/04	8/31/04	Lead	51	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.20		
		8/26/04	9/9/04	Sulfate - Leachable	847	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	2880	500	mg/kg
AM17554	EPX-75						
		8/26/04	8/31/04	Arsenic	15	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	3260		umhos/cm
		8/26/04	8/31/04	Lead	63	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.66		
		8/26/04	9/9/04	Sulfate - Leachable	2220	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	18900	500	mg/kg

Lab	Descrription	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AM17555	EPX-76						
		8/26/04	8/31/04	Arsenic	13	2	mg/kg
		8/26/04	9/1/04	Soil Paste Conductivity	2740		umhos/cm
		8/26/04	8/31/04	Lead	55	0.05	mg/kg
		8/26/04	9/1/04	pH Paste	7.71		
		8/26/04	9/9/04	Sulfate - Leachable	1830	5	mg/Kg
		8/26/04	9/14/04	Sulfate in Soils	16500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KBL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/31/2004

Quality Assurance Statement for Samples: **AM17548 - AM17557**
AM17698 - AM17707

Original: AM17557 **Spike Sample:** AM17715 **Blank SPIKE:** AM17717

Duplicate: AM17714 **Blank Sample:** AM17716 **Reference Sample:** AM17718 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	3	8	**	100	104	**101**	Below MDL	97	**97**	98	92.2	106
Arsenic	2	54	56	-3.64	100	153	**99**	Below MDL	99	**96**	307	283	108
Barium	2	210	233	-10.38	100	305	**95**	Below MDL	98	**98**	562	529	106
Cadmium	0.5	1.3	1.1	16.67	100	87	**86**	Below MDL	94	**94**	50.4	50.7	99
Chromium	1	21	21	0.00	100	119	**98**	Below MDL	100	**100**	70.4	64.8	109
Lead	1	76	102	-29.21	100	156	**80**	Below MDL	98	**106**	90.9	84.7	107
Selenium	2	7	3	**	100	92	**85**	Below MDL	91	**91**	123	124	99
Copper	1	3760	2600	36.48	100	4900	*	Below MDL	102	**102**	187	169	111

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 9/21/2004
QC: Sample#: AM18861
Login Group: 09210853

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM18859	EPX-77						
		9/20/04	9/23/04	Arsenic	11	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	3030		umhos/cm
		9/20/04	9/23/04	Lead	70	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	7.37		
		9/20/04	9/30/04	Sulfate - Leachable	1930	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	10200	500	mg/kg
AM18860	EPX-78						
		9/20/04	9/23/04	Arsenic	8	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	2840		umhos/cm
		9/20/04	9/23/04	Lead	63	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	6.54		
		9/20/04	9/30/04	Sulfate - Leachable	1900	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	7500	500	mg/kg
AM18861	EPX-79						
		9/20/04	9/23/04	Arsenic	7	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	3450		umhos/cm
		9/20/04	9/23/04	Lead	44	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	5.18		
		9/20/04	9/30/04	Sulfate - Leachable	2270	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	5700	500	mg/kg
AM18862	EPX-80						
		9/20/04	9/23/04	Arsenic	9	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	3270		umhos/cm
		9/20/04	9/23/04	Lead	50	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	6.15		
		9/20/04	9/30/04	Sulfate - Leachable	2220	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	5400	500	mg/kg
AM18863	EPX-81						
		9/20/04	9/23/04	Arsenic	12	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	2800		umhos/cm
		9/20/04	9/23/04	Lead	59	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	5.98		
		9/20/04	9/30/04	Sulfate - Leachable	1870	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	6900	500	mg/kg
AM18864	EPX-82						
		9/20/04	9/23/04	Arsenic	11	2	mg/kg
		9/20/04	9/24/04	Soil Paste Conductivity	2860		umhos/cm
		9/20/04	9/23/04	Lead	50	0.05	mg/kg
		9/20/04	9/24/04	pH Paste	7.10		
		9/20/04	9/30/04	Sulfate - Leachable	1900	5	mg/Kg
		9/20/04	9/28/04	Sulfate in Soils	5700	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/23/2004

Quality Assurance Statement for Samples: **AM18859 - AM18864**

Original: AM18861 **Spike Sample:** AM18988 **Blank SPIKE:** AM18990

Duplicate: AM18987 **Blank Sample:** AM18989 **Reference Sample:** AM18991 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	5	7	**	100	101	**101**	Below MDL	97	**97**	93	92.2	101
Arsenic	2	14	15	-6.90	100	112	**97**	Below MDL	96	**96**	274	283	97
Barium	2	46	50	-8.33	100	148	**102**	Below MDL	98	**98**	530	529	100
Cadmium	0.5	Below MDL	Below MDL	**	100	97	**97**	Below MDL	94	**94**	51.3	50.7	101
Chromium	1	11	11	0.00	100	111	**100**	Below MDL	99	**99**	67.6	64.8	104
Lead	1	66	67	-1.50	100	148	**81**	Below MDL	95	**95**	79.6	84.7	94
Selenium	2	Below MDL	Below MDL	**	100	89	**89**	Below MDL	89	**89**	106	124	85
Copper	1	56	61	-8.55	100	164	**108**	Below MDL	99	**99**	183	169	108

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Submission Date: 9/30/2004

Metals Analysis: SWA846 Methods 60100B and 7471

QC Reference Sample: **AM19453**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM19458	EPX-83	9/28/2004	10/6/2004	pH Paste	**7.35**		
			10/1/2004	Arsenic	**12**	2	mg/kg
			8/1/2005	Barium	**40**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**9**	2	mg/kg
			10/1/2004	Lead	**41**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			10/11/2004	Sulfate - Leachable	**1630**	5	mg/Kg
			10/5/2004	Sulfate in Soils	**15600**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**2310**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]ental Laboratory

Total Metals

Preparation Date: 10/1/2004

For samples: AM19446-AM19459, AM19501-AM19502

Original: AM19453 **Spike Sample:** AM19493 **Blank SPIKE:** AM19495

Duplicate: AM19492 **Blank Sample:** AM19494 **Reference Sample:** AM19496 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	16	17	-6.06	100	117	**100**	Below MDL	97	**97**	277	283	98
Lead	1	66	61	7.87	100	173	**112**	Below MDL	98	**98**	81	84.7	96

* = Sample concentration is 10 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 10/15/2004
QC: Sample#: AM20306
Login Group: 10150713

Total Metal

Lab	Descrription	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AM20313	EPX-84						
		10/14/04	10/15/04	Arsenic	11	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	2970		umhos/cm
		10/14/04	10/15/04	Lead	47	2	mg/kg
		10/14/04	11/9/04	pH Paste	7.61		
		10/14/04	11/11/04	Sulfate - Leachable	1980	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	2100	500	mg/kg
AM20314	EPX-85						
		10/14/04	10/15/04	Arsenic	13	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	3500		umhos/cm
		10/14/04	10/15/04	Lead	47	2	mg/kg
		10/14/04	11/9/04	pH Paste	7.71		
		10/14/04	11/11/04	Sulfate - Leachable	2000	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	2010	500	mg/kg
AM20315	EPX-86						
		10/14/04	10/15/04	Arsenic	38	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	2500		umhos/cm
		10/14/04	10/15/04	Lead	67	2	mg/kg
		10/14/04	11/9/04	pH Paste	5.68		
		10/14/04	11/11/04	Sulfate - Leachable	931	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	1290	500	mg/kg
AM20316	EPX-87						
		10/14/04	10/15/04	Arsenic	14	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	2780		umhos/cm
		10/14/04	10/15/04	Lead	49	2	mg/kg
		10/14/04	11/9/04	pH Paste	7.11		
		10/14/04	11/11/04	Sulfate - Leachable	2030	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	2050	500	mg/kg
AM20317	EPX-88						
		10/14/04	10/15/04	Arsenic	16	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	2980		umhos/cm
		10/14/04	10/15/04	Lead	54	0.05	mg/kg
		10/14/04	11/9/04	pH Paste	7.48		
		10/14/04	11/11/04	Sulfate - Leachable	2440	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	2600	500	mg/kg
AM20318	EPX-89						
		10/14/04	10/15/04	Arsenic	14	2	mg/kg
		10/14/04	11/9/04	Soil Paste Conductivity	2430		umhos/cm
		10/14/04	10/15/04	Lead	535	0.05	mg/kg
		10/14/04	11/9/04	pH Paste	7.53		
		10/14/04	11/11/04	Sulfate - Leachable	1730	5	mg/Kg
		10/14/04	11/15/04	Sulfate in Soils	2010	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/15/2004

Quality Assurance Statement for Samples: **AM20306 - AM20318**

Original: AM20306 **Spike Sample:** AM20346 **Blank SPIKE:** AM20348

Duplicate: AM20345 **Blank Sample:** AM20347 **Reference Sample:** AM20349 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	100	**100**	Below MDL	102	**102**	92	92.2	100
Arsenic	2	1530	1470	4.00	100	1390	*	Below MDL	99	**99**	276	283	98
Barium	2	27	26	3.77	100	124	**97**	Below MDL	104	**104**	520	529	98
Cadmium	0.5	4	4	**	100	95	**95**	Below MDL	100	**100**	53	50.7	105
Chromium	1	300	295	1.68	100	400	**100**	Below MDL	104	**104**	64	64.8	99
Lead	1	49	46	6.32	100	134	**88**	Below MDL	101	**101**	81	84.7	96
Selenium	2	Below MDL	Below MDL	**	100	86	**86**	Below MDL	88	**88**	115	124	93
Copper	1	272	278	-2.18	100	369	**97**	Below MDL	106	**106**	176	169	104

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 10/15/2004

QC Reference Sample: **AM20306**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM20311	EPX-90	10/14/2004	11/9/2004	pH Paste	**5.37**		
			10/15/2004	Arsenic	**22**	2	mg/kg
			8/1/2005	Barium	**33**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**27**	2	mg/kg
			10/15/2004	Lead	**38**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			11/11/2004	Sulfate - Leachable	**1840**	5	mg/Kg
			11/15/2004	Sulfate in Soils	**4600**	500	mg/kg
			11/9/2004	Soil Paste Conductivity	**2630**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro ental Laboratory

Total Metals

Preparation Date: 10/15/2004

Quality Assurance Statement for Samples: **AM20306 - AM20318**

Original: AM20306 **Spike Sample:** AM20346 **Blank SPIKE:** AM20348

Duplicate: AM20345 **Blank Sample:** AM20347 **Reference Sample:** AM20349 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	100	**100**	Below MDL	100	**100**	92	92.2	100
Arsenic	2	1530	1470	4.00	100	1390	**-80**	Below MDL	99	**99**	276	283	98
Barium	2	27	26	3.77	100	124	**97**	Below MDL	104	**104**	520	529	98
Cadmium	0.5	4	4	0.00	100	95	**95**	Below MDL	100	**100**	53	50.7	105
Chromium	1	300	295	1.68	100	400	**100**	Below MDL	104	**104**	64	64.8	99
Lead	1	49	46	6.32	100	134	**88**	Below MDL	101	**101**	81	84.7	96
Selenium	2	Below MDL	Below MDL	**	100	43	**43**	Below MDL	88	**88**	115	124	93
Copper	1	272	278	-2.18	100	469	**197**	Below MDL	106	**106**	176	169	104

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 11/15/2004

QC Reference Sample: **AM21791**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM21789	EPX-91	11/15/2004	12/1/2004	pH Paste	**6.19**		
			11/16/2004	Arsenic	**52**	2	mg/kg
			8/1/2005	Barium	**54**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**27**	2	mg/kg
			11/16/2004	Lead	**50**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**2**	1	mg/kg
			12/3/2004	Sulfate - Leachable	**2020**	5	mg/Kg
			12/3/2004	Sulfate in Soils	**27000**	500	mg/kg
			12/1/2004	Soil Paste Conductivity	**2510**		umhos/cm
AM21791	EP111504-2	11/15/2004	12/1/2004	pH Paste	**1.26**		
			11/16/2004	Arsenic	**14**	2	mg/kg
			11/16/2004	Barium	**42**	2	mg/kg
			11/16/2004	Cadmium	**Below MDL**	1	mg/kg
			11/16/2004	Chromium	**26**	2	mg/kg
			11/16/2004	Copper	**103**	2.0	mg/kg
			11/16/2004	Lead	**36**	3	mg/kg
			11/16/2004	Selenium	**Below MDL**	2	mg/kg
			11/16/2004	Silver	**Below MDL**	1	mg/kg
			12/3/2004	Sulfate - Leachable	**1780**	5	mg/Kg
			12/3/2004	Sulfate in Soils	**6600**	500	mg/kg
			12/1/2004	Soil Paste Conductivity	**2220**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 21-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 11/15/2004

QC Reference Sample: **AM21791**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM21791	EPX089A	11/15/2004	12/1/2004	pH Paste	**1.26**		
(EP111504-2)			11/16/2004	Arsenic	**14**	2	mg/kg
			11/16/2004	Barium	**42**	2	mg/kg
			11/16/2004	Cadmium	**Below MDL**	1	mg/kg
			11/16/2004	Chromium	**26**	2	mg/kg
			11/16/2004	Copper	**103**	2.0	mg/kg
			11/16/2004	Lead	**36**	3	mg/kg
			11/16/2004	Selenium	**Below MDL**	2	mg/kg
			11/16/2004	Silver	**Below MDL**	1	mg/kg
			12/3/2004	Sulfate - Leachable	**1780**	5	mg/Kg
			12/3/2004	Sulfate in Soils	**6600**	500	mg/kg
			12/1/2004	Soil Paste Conductivity	**2220**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]ental Laboratory

Total Metals

Preparation Date: 11/16/2004

Quality Assurance Statement for Samples: **AM21314**
AM21789 - AM21791

Original: AM21791 **Spike Sample:** AM21816 **Blank SPIKE:** AM21818

Duplicate: AM21815 **Blank Sample:** AM21817 **Reference Sample:** AM21819 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	94	**94**	93	92.2	101
Arsenic	2	14	15	-6.90	100	108	**93**	Below MDL	94	**94**	287	283	101
Barium	2	42	41	2.41	100	145	**103**	Below MDL	96	**96**	531	529	100
Cadmium	0.5	Below MDL	Below MDL	**	100	92	**92**	Below MDL	93	**93**	49	50.7	97
Chromium	1	26	22	16.67	100	114	**88**	Below MDL	96	**96**	66	64.8	102
Lead	1	36	34	5.71	100	143	**109**	Below MDL	94	**94**	86	84.7	102
Selenium	2	Below MDL	8	**	100	90	**90**	Below MDL	87	**87**	119	124	96
Copper	1	103	95	8.08	100	184	**81**	Below MDL	99	**99**	175	169	104

* = Sample concentration is 10 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Kennecott Environmental Laboratory
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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 11/19/2004
QC: Sample#: AM22297
Login Group: 11190931

Total Metal

Lab	Descrription	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AM22134	EPX-91A						
		11/18/04	11/24/04	Arsenic	53	2	mg/kg
		11/18/04	12/1/04	Soil Paste Conductivity	2370		umhos/cm
		11/18/04	11/24/04	Lead	56	2	mg/kg
		11/18/04	12/1/04	pH Paste	6.36		
		11/18/04	12/3/04	Sulfate - Leachable	1880	5	mg/Kg
		11/18/04	12/3/04	Sulfate in Soils	18000	500	mg/kg
AM22135	EPX-92						
		11/18/04	11/24/04	Arsenic	10	2	mg/kg
		11/18/04	12/1/04	Soil Paste Conductivity	2510		umhos/cm
		11/18/04	11/24/04	Lead	58	2	mg/kg
		11/18/04	12/1/04	pH Paste	7.84		
		11/18/04	12/3/04	Sulfate - Leachable	1920	5	mg/Kg
		11/18/04	12/3/04	Sulfate in Soils	9300	500	mg/kg
AM22136	EPX-93						
		11/18/04	11/24/04	Arsenic	13	2	mg/kg
		11/18/04	12/1/04	Soil Paste Conductivity	2600		umhos/cm
		11/18/04	11/24/04	Lead	56	2	mg/kg
		11/18/04	12/1/04	pH Paste	7.64		
		11/18/04	12/3/04	Sulfate - Leachable	2010	5	mg/Kg
		11/18/04	12/3/04	Sulfate in Soils	43500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 11/23/2004

Original: AM22297 **Spike Sample:** AM22335 **Blank SPIKE:** AM22337

Duplicate: AM22334 **Blank Sample:** AM22336 **Reference Sample:** AM22338 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	92	**92**	Below MDL	97	**97**	91	92.2	99
Arsenic	2	7	6	15.38	100	102	**95**	Below MDL	97	**97**	285	283	101
Barium	2	218	218	0.00	100	308	**90**	Below MDL	101	**101**	535	529	101
Cadmium	0.5	Below MDL	Below MDL	**	100	88	**88**	Below MDL	97	**97**	50	50.7	99
Chromium	1	30	29	3.39	100	120	**90**	Below MDL	99	**99**	64	64.8	99
Lead	1	23	24	-4.26	100	114	**90**	Below MDL	98	**98**	84	84.7	99
Selenium	2	Below MDL	Below MDL	**	100	84	**84**	Below MDL	86	**86**	118	124	95
Copper	1	27	27	0.00	100	129	**102**	Below MDL	100	**100**	176	169	104

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 11/23/2004
QC: Sample#: AM22357
Login Group: 11231704

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM22352	EPX-94						
		11/23/04	11/24/04	Arsenic	104	2	mg/kg
		11/23/04	11/24/04	Lead	105	2	mg/kg
		11/23/04	12/1/04	pH Paste	7.24		
		11/23/04	12/3/04	Sulfate in Soils	21300	500	mg/kg
		11/23/04	12/1/04	Soil Paste Conductivity	1292		umhos/cm
		11/23/04	12/3/04	Sulfate - Leachable	2380	5	mg/Kg
AM22353	EPX-95						
		11/23/04	12/1/04	Soil Paste Conductivity	2850		umhos/cm
		11/23/04	12/3/04	Sulfate - Leachable	2310	5	mg/Kg
		11/23/04	11/24/04	Arsenic	5	2	mg/kg
		11/23/04	11/24/04	Lead	21	2	mg/kg
		11/23/04	12/1/04	pH Paste	7.42		
		11/23/04	12/3/04	Sulfate in Soils	5400	500	mg/kg
AM22354	EPX-96						
		11/23/04	11/24/04	Arsenic	26	2	mg/kg
		11/23/04	11/24/04	Lead	63	2	mg/kg
		11/23/04	12/1/04	pH Paste	7.26		
		11/23/04	12/3/04	Sulfate in Soils	12300	500	mg/kg
		11/23/04	12/1/04	Soil Paste Conductivity	2890		umhos/cm
		11/23/04	12/3/04	Sulfate - Leachable	2420	5	mg/Kg
AM22355	EPX-97						
		11/23/04	11/24/04	Cadmium	1	1	mg/kg
		11/23/04	11/24/04	Chromium	20	2	mg/kg
		11/23/04	11/24/04	Silver	15	1	mg/kg
		11/23/04	11/24/04	Arsenic	17	2	mg/kg
		11/23/04	11/24/04	Barium	114	2	mg/kg
		11/23/04	11/24/04	Copper	80	2.0	mg/kg
		11/23/04	11/24/04	Lead	51	2	mg/kg
		11/23/04	11/24/04	Selenium	2	2	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 11/23/2004

Quality Assurance Statement for Sample: **AM22352 - AM22357**
AM22134 - AM22136
AM22294 - AM22297

Original: AM22357 **Spike Sample:** AM22335 **Blank Sample:** AM22337

Duplicate: AM22334 **Blank Sample:** AM22336 **Reference Sample:** AM22338 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	7	6	7.70	100	102	**95**	Below MDL	97	**97**	285	283	101
Lead	2	23	24	-4.3	100	114	**91**	Below MDL	98	**98**	84	84.7	99

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 4 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 12/2/2004
QC: Sample#: AM22691
Login Group: 12020909

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM22688	EPX-91BS						
		11/30/04	12/3/04	Arsenic	52	2	mg/kg
		11/30/04	12/3/04	Lead	72	0.05	mg/kg
		11/30/04	12/4/04	pH Paste	6.10		
		11/30/04	12/7/04	Sulfate in Soils	810	500	mg/kg
		11/30/04	12/4/04	Soil Paste Conductivity	1840		umhos/cm
		11/30/04	12/7/04	Sulfate - Leachable	2270	5	mg/Kg
AM22689	EPX-91BN						
		11/30/04	12/4/04	Soil Paste Conductivity	2160		umhos/cm
		11/30/04	12/7/04	Sulfate - Leachable	1870	5	mg/Kg
		11/30/04	12/3/04	Arsenic	75	2	mg/kg
		11/30/04	12/3/04	Lead	61	0.05	mg/kg
		11/30/04	12/4/04	pH Paste	7.39		
		11/30/04	12/7/04	Sulfate in Soils	1980	500	mg/kg
AM22690	EPX-98						
		11/30/04	12/3/04	Arsenic	124	2	mg/kg
		11/30/04	12/3/04	Lead	72	0.05	mg/kg
		11/30/04	12/4/04	pH Paste	5.44		
		11/30/04	12/7/04	Sulfate in Soils	900	500	mg/kg
		11/30/04	12/4/04	Soil Paste Conductivity	2650		umhos/cm
		11/30/04	12/7/04	Sulfate - Leachable	2380	5	mg/Kg
AM22691	EP113004-1						
		11/30/04	12/3/04	Cadmium	Below MDL	1	mg/kg
		11/30/04	12/4/04	Soil Paste Conductivity	2680		umhos/cm
		11/30/04	12/3/04	Chromium	46	2	mg/kg
		11/30/04	12/7/04	Sulfate - Leachable	2240	5	mg/Kg
		11/30/04	12/3/04	Silver	Below MDL	1	mg/kg
		11/30/04	12/3/04	Arsenic	158	2	mg/kg
		11/30/04	12/3/04	Barium	85	2	mg/kg
		11/30/04	12/3/04	Copper	154	2.0	mg/kg
		11/30/04	12/3/04	Lead	76	0.05	mg/kg
		11/30/04	12/4/04	pH Paste	7.26		
		11/30/04	12/3/04	Selenium	Below MDL	2	mg/kg
		11/30/04	12/7/04	Sulfate in Soils	1890	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/2/2004

Quality Assurance Statement for Samples: **AM22688 - AM22691**

Original: AM22691 **Spike Sample:** AM22717 **Blank SPIKE:** AM22719

Duplicate: AM22716 **Blank Sample:** AM22718 **Reference Sample:** AM22720 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	102	**102**	96	92.2	104
Arsenic	2	158	170	-7.32	100	256	**98**	Below MDL	107	**107**	291	283	103
Barium	2	85	85	0.00	100	164	**79**	Below MDL	102	**102**	540	529	102
Cadmium	0.5	Below MDL	1	**	100	94	**94**	Below MDL	98	**98**	51	50.7	101
Chromium	1	46	51	-10.31	100	132	**86**	Below MDL	99	**99**	66	64.8	102
Lead	1	76	80	-5.13	100	154	**74**	Below MDL	98	**98**	86	84.7	102
Selenium	2	Below MDL	Below MDL	**	100	81	**81**	Below MDL	92	**92**	117	124	94
Copper	1	154	181	-16.12	100	283	**102**	Below MDL	105	**105**	181	169	107

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 12/7/2004

QC Reference Sample: **AM22902**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM22902	EPX-99	12/6/2004	12/17/2004	pH Paste	**7.47**		
			12/8/2004	Arsenic	**12**	2	mg/kg
			12/8/2004	Barium	**132**	2	mg/kg
			12/8/2004	Cadmium	**Below MDL**	1	mg/kg
			12/8/2004	Chromium	**19**	2	mg/kg
			12/8/2004	Copper	**54**	2.0	mg/kg
			12/8/2004	Lead	**65**	3	mg/kg
			12/8/2004	Selenium	**Below MDL**	2	mg/kg
			12/8/2004	Silver	**Below MDL**	1	mg/kg
			12/22/2004	Sulfate - Leachable	**2210**	5	mg/Kg
			2/2/2005	Sulfate in Soils	**3300**	500	mg/kg
			12/17/2004	Soil Paste Conductivity	**2740**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/8/2004

Quality Assurance Statement for Samples: **AM22899 - AM22902**

Original: AM22902 **Spike Sample:** AM22904 **Blank SPIKE:** AM22906

Duplicate: AM22903 **Blank Sample:** AM22905 **Reference Sample:** AM22907 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	95	**95**	Below MDL	107	**107**	90	92.2	98
Arsenic	2	12	13	-8.00	100	119	**107**	Below MDL	101	**101**	283	283	100
Barium	2	132	151	-13.43	100	244	**112**	Below MDL	103	**103**	545	529	103
Cadmium	0.5	Below MDL	Below MDL	**	100	96	**96**	Below MDL	99	**99**	52	50.7	103
Chromium	1	19	19	0.00	100	119	**100**	Below MDL	102	**102**	66	64.8	102
Lead	1	65	68	-4.51	100	161	**96**	Below MDL	100	**100**	85	84.7	100
Selenium	2	Below MDL	Below MDL	**	100	90	**90**	Below MDL	90	**90**	114	124	92
Copper	1	54	58	-7.14	100	170	**116**	Below MDL	107	**107**	179	169	106

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 12/16/2004
QC: Sample#: AM23451
Login Group: 12161251

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM23451	EPX-100						
		12/15/04	12/21/04	Silver	3	1	mg/kg
		12/15/04	12/20/04	Arsenic	16	2	mg/kg
		12/15/04	12/21/04	Barium	146	2	mg/kg
		12/15/04	12/21/04	Cadmium	Below MDL	1	mg/kg
		12/15/04	1/21/05	Soil Paste Conductivity	2360		umhos/cm
		12/15/04	12/21/04	Chromium	21	2	mg/kg
		12/15/04	12/21/04	Copper	377	2.0	mg/kg
		12/15/04	12/20/04	Lead	92	2	mg/kg
		12/15/04	1/21/05	pH Paste	7.74		
		12/15/04	12/21/04	Selenium	Below MDL	2	mg/kg
		12/15/04	2/2/05	Sulfate - Leachable	1900	5	mg/Kg
		12/15/04	2/3/05	Sulfate in Soils	8400	500	mg/kg
AM23452	EPX-101						
		12/15/04	12/20/04	Arsenic	13	2	mg/kg
		12/15/04	1/21/05	Soil Paste Conductivity	2250		umhos/cm
		12/15/04	12/20/04	Lead	81	2	mg/kg
		12/15/04	1/21/05	pH Paste	7.81		
		12/15/04	2/2/05	Sulfate - Leachable	1890	5	mg/Kg
		12/15/04	2/3/05	Sulfate in Soils	7200	500	mg/kg
AM23453	EPX-102						
		12/15/04	12/20/04	Arsenic	18	2	mg/kg
		12/15/04	1/21/05	Soil Paste Conductivity	2630		umhos/cm
		12/15/04	12/20/04	Lead	86	2	mg/kg
		12/15/04	1/21/05	pH Paste	7.19		
		12/15/04	2/2/05	Sulfate - Leachable	2280	5	mg/Kg
		12/15/04	2/3/05	Sulfate in Soils	17400	500	mg/kg
AM23454	EPX-103						
		12/15/04	12/20/04	Arsenic	25	2	mg/kg
		12/15/04	1/21/05	Soil Paste Conductivity	2200		umhos/cm
		12/15/04	12/20/04	Lead	38	2	mg/kg
		12/15/04	1/21/05	pH Paste	4.02		
		12/15/04	2/2/05	Sulfate - Leachable	1840	5	mg/Kg
		12/15/04	2/3/05	Sulfate in Soils	18000	500	mg/kg
AM23455	EPX-91C						
		12/15/04	12/20/04	Arsenic	19	2	mg/kg
		12/15/04	1/21/05	Soil Paste Conductivity	1930		umhos/cm
		12/15/04	12/20/04	Lead	26	2	mg/kg
		12/15/04	1/21/05	pH Paste	5.31		
		12/15/04	2/2/05	Sulfate - Leachable	1630	5	mg/Kg
		12/15/04	2/3/05	Sulfate in Soils	13500	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/20/2004

Quality Assurance Statement for Samples: **AM23451 - AM23457**

Original: AM23451 **Spike Sample:** AM23510 **Blank SPIKE:** AM23512

Duplicate: AM23509 **Blank Sample:** AM23511 **Reference Sample:** AM23513 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	3	2	**	100	95	**95**	Below MDL	96	**96**	90	92.2	98
Arsenic	2	16	15	6.45	100	108	**92**	Below MDL	94	**94**	267	283	94
Barium	2	146	140	4.20	100	238	**92**	Below MDL	96	**96**	515	529	97
Cadmium	0.5	Below MDL	Below MDL	**	100	88	**88**	Below MDL	90	**90**	47	50.7	93
Chromium	1	21	22	-4.65	100	115	**94**	Below MDL	96	**96**	63	64.8	97
Lead	1	92	92	0.00	100	177	**85**	Below MDL	91	**91**	77	84.7	91
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	83	**83**	108	124	87
Copper	1	377	351	7.14	100	453	**76**	Below MDL	101	**101**	174	169	103

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 12/23/2004
QC: Sample#: AM23746
Login Group: 12231504

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM23745	EPX-94A						
		12/22/04	12/28/04	Arsenic	49	2	mg/kg
		12/22/04	1/21/05	Soil Paste Conductivity	2380		umhos/cm
		12/22/04	12/28/04	Lead	91	2	mg/kg
		12/22/04	1/21/05	pH Paste	6.09		
		12/22/04	2/2/05	Sulfate - Leachable	2130	5	mg/Kg
		12/22/04	2/3/05	Sulfate in Soils	19200	500	mg/kg
AM23746	EPX-98C						
		12/22/04	12/28/04	Arsenic	28	2	mg/kg
		12/22/04	1/21/05	Soil Paste Conductivity	2160		umhos/cm
		12/22/04	12/28/04	Lead	37	2	mg/kg
		12/22/04	1/21/05	pH Paste	5.38		
		12/22/04	2/2/05	Sulfate - Leachable	1890	5	mg/Kg
		12/22/04	2/3/05	Sulfate in Soils	23100	500	mg/kg
AM23747	EPX-104						
		12/22/04	12/28/04	Arsenic	17	2	mg/kg
		12/22/04	1/21/05	Soil Paste Conductivity	3180		umhos/cm
		12/22/04	12/28/04	Lead	86	2	mg/kg
		12/22/04	1/21/05	pH Paste	7.48		
		12/22/04	2/2/05	Sulfate - Leachable	2570	5	mg/Kg
		12/22/04	2/3/05	Sulfate in Soils	600	500	mg/kg
AM23748	EPX-105						
		12/22/04	12/28/04	Arsenic	15	2	mg/kg
		12/22/04	1/21/05	Soil Paste Conductivity	2550		umhos/cm
		12/22/04	12/28/04	Lead	107	2	mg/kg
		12/22/04	1/21/05	pH Paste	7.26		
		12/22/04	2/2/05	Sulfate - Leachable	2090	5	mg/Kg
		12/22/04	2/3/05	Sulfate in Soils	14400	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/28/2004

Quality Assurance Statement for Samples: **AM23745 - AM23748**

Original: AM23746 **Spike Sample:** AM23750 **Blank SPIKE:** AM23752

Duplicate: AM23749 **Blank Sample:** AM23751 **Reference Sample:** AM23753 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	28	26	7.41	100	125	**97**	Below MDL	94	**94**	271	283	96
Lead	1	37	39	-5.26	100	134	**97**	Below MDL	93	**93**	79	84.7	93

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 30-Mar-07

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 1/21/2005

QC Reference Sample: **AN01054**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN01052	EPX-106	1/18/2005	1/24/2005	pH Paste	**7.97**		
			1/24/2005	Arsenic	**19**	2	mg/kg
			8/1/2005	Barium	**107**	2	mg/kg
			8/1/2005	Cadmium	**1**	1	mg/kg
			8/1/2005	Chromium	**18**	2	mg/kg
			1/24/2005	Lead	**83**	3	mg/kg
			8/1/2005	Selenium	**8**	2	mg/kg
			8/1/2005	Silver	**12**	1	mg/kg
			2/2/2005	Sulfate - Leachable	**2050**	5	mg/Kg
			2/3/2005	Sulfate in Soils	**6000**	500	mg/kg
			1/24/2005	Soil Paste Conductivity	**2600**		umhos/cm
AN01053	EPX-107	1/18/2005	1/24/2005	pH Paste	**7.98**		
			1/24/2005	Arsenic	**18**	2	mg/kg
			8/1/2005	Barium	**163**	2	mg/kg
			8/1/2005	Cadmium	**1**	1	mg/kg
			8/1/2005	Chromium	**21**	2	mg/kg
			1/24/2005	Lead	**103**	3	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**6**	1	mg/kg
			2/10/2005	Sulfate - Leachable	**1890**	5	mg/Kg
			2/18/2005	Sulfate in Soils	**16000**	500	mg/kg
			1/24/2005	Soil Paste Conductivity	**2910**		umhos/cm
AN01054	EPX-108	1/18/2005	1/24/2005	pH Paste	**7.23**		
			1/24/2005	Arsenic	**18**	2	mg/kg
			1/24/2005	Barium	**89**	2	mg/kg
			1/24/2005	Cadmium	**Below MDL**	1	mg/kg
			1/24/2005	Chromium	**15**	2	mg/kg
			1/24/2005	Copper	**173**	2.0	mg/kg
			1/24/2005	Lead	**29**	3	mg/kg
			1/24/2005	Selenium	**Below MDL**	2	mg/kg
			1/24/2005	Silver	**3**	1	mg/kg
			2/10/2005	Sulfate - Leachable	**754**	5	mg/Kg
			2/18/2005	Sulfate in Soils	**5700**	500	mg/kg
			1/24/2005	Soil Paste Conductivity	**1260**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 1/24/2005

Quality Assurance Statement for Samples: **AN01052 - AN01054**

Original: AN01054 **Spike Sample:** AN01078 **Blank SPIKE:** AN01080

Duplicate: AN01077 **Blank Sample:** AN01079 **Reference Sample:** AN01081 0039-30-25

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	3	2	**	100	102	**102**	Below MDL	98	**98**	151	127	119
Arsenic	2	18	22	-20.00	100	125	**107**	Below MDL	100	**100**	158	136	116
Barium	2	89	78	13.17	100	178	**89**	Below MDL	98	**98**	158	141	112
Cadmium	0.5	Below MDL	Below MDL	**	100	100	**100**	Below MDL	96	**96**	268	246	109
Chromium	1	15	13	14.29	100	115	**100**	Below MDL	98	**98**	109	95.5	114
Lead	1	29	31	-6.67	100	137	**108**	Below MDL	98	**98**	86	74.2	116
Selenium	2	Below MDL	Below MDL	**	100	87	**87**	Below MDL	86	**86**	78	80.4	97
Copper	1	173	187	-7.78	100	292	**119**	Below MDL	102	**102**	81	66.3	122

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 1/31/2005
QC: Sample#: AN01533
Login Group: 01311431

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN01531	EPX-109						
		1/28/05	2/2/05	Arsenic	10	2	mg/kg
		1/28/05	2/11/05	Soil Paste Conductivity	1660		umhos/cm
		1/28/05	2/2/05	Lead	40	2	mg/kg
		1/28/05	2/11/05	pH Paste	7.72		
		1/28/05	2/10/05	Sulfate - Leachable	1360	5	mg/Kg
		1/28/05	2/18/05	Sulfate in Soils	4500	500	mg/kg
AN01532	EPX-110						
		1/28/05	2/2/05	Arsenic	9.6	2	mg/kg
		1/28/05	2/11/05	Soil Paste Conductivity	1720		umhos/cm
		1/28/05	2/2/05	Lead	54	2	mg/kg
		1/28/05	2/11/05	pH Paste	7.01		
		1/28/05	2/10/05	Sulfate - Leachable	1530	5	mg/Kg
		1/28/05	2/18/05	Sulfate in Soils	7800	500	mg/kg
AN01533	EPX-111						
		1/28/05	2/2/05	Arsenic	8.3	2	mg/kg
		1/28/05	2/11/05	Soil Paste Conductivity	1890		umhos/cm
		1/28/05	2/2/05	Lead	32	2	mg/kg
		1/28/05	2/11/05	pH Paste	7.69		
		1/28/05	2/10/05	Sulfate - Leachable	1660	5	mg/Kg
		1/28/05	2/18/05	Sulfate in Soils	3900	500	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 2/1/2005

Quality Assurance Statement for Samples: **AN01531 - AN01533**

Original: AN01533 **Spike Sample:** AN01553 **Blank SPIKE:** AN01555

Duplicate: AN01552 **Blank Sample:** AN01554 **Reference Sample:** AN01556 0039-30-25

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	8.3	8.5	-2.38	100	109	**101**	Below MDL	99	**99**	158	136	116
Lead	1	32	38	-17.14	100	136	**104**	Below MDL	100	**100**	84	74.2	113

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 2/11/2005
QC: Sample#: AN02127
Login Group: 02110824

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN02138	EPX-112						
		2/10/05	2/11/05	Arsenic	24	2	mg/kg
		2/10/05	2/14/05	Soil Paste Conductivity	2810		umhos/cm
		2/10/05	2/11/05	Lead	97	2	mg/kg
		2/10/05	2/14/05	pH Paste	4.69		
		2/10/05	2/24/05	Sulfate - Leachable	2790	5	mg/Kg
		2/10/05	2/18/05	Sulfate in Soils	7800	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 2/10/2005

Quality Assurance Statement for Samples: **AN02116 - AN02128**
AN02138

Original: AN02127 **Spike Sample:** AN02130 **Blank SPIKE:** AN02132

Duplicate: AN02129 **Blank Sample:** AN02131 **Reference Sample:** AN02133 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	9	6	**	100	109	**109**	Below MDL	95	**95**	94	92.2	102
Arsenic	2	87	93	-6.67	100	193	**106**	Below MDL	93	**93**	269	283	95
Barium	2	283	299	-5.50	100	381	**98**	Below MDL	97	**97**	511	529	97
Cadmium	0.5	4	3	**	100	89	**89**	Below MDL	93	**93**	53	50.7	105
Chromium	1	16	15	6.45	100	115	**99**	Below MDL	97	**97**	63	64.8	97
Lead	1	242	234	3.36	100	321	**87**	Below MDL	93	**93**	78	84.7	92
Selenium	2	Below MDL	Below MDL	**	100	84	**84**	Below MDL	83	**83**	107	124	86
Copper	1	6760	6960	-2.92	100	7880	*	Below MDL	101	**101**	178	169	105

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Kennecott Environmental Laboratory
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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 3/3/2005
QC: Sample#: AN03419
Login Group: 03031319

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN03406	EPX-113						
		3/2/05	3/4/05	Arsenic	24	2	mg/kg
		3/2/05	3/4/05	Soil Paste Conductivity	2450		umhos/cm
		3/2/05	3/4/05	Lead	152	2	mg/kg
		3/2/05	3/4/05	pH Paste	5.51		
		3/2/05	3/11/05	Sulfate - Leachable	2290	5	mg/Kg
		3/2/05	4/5/05	Sulfate in Soils	9000	500	mg/kg
AN03407	EPX-114						
		3/2/05	3/4/05	Arsenic	50	2	mg/kg
		3/2/05	3/4/05	Soil Paste Conductivity	2770		umhos/cm
		3/2/05	3/4/05	Lead	153	2	mg/kg
		3/2/05	3/4/05	pH Paste	5.98		
		3/2/05	3/11/05	Sulfate - Leachable	2840	5	mg/Kg
		3/2/05	4/5/05	Sulfate in Soils	36600	500	mg/kg
AN03408	EPX-115						
		3/2/05	3/4/05	Arsenic	18	2	mg/kg
		3/2/05	3/4/05	Soil Paste Conductivity	2220		umhos/cm
		3/2/05	3/4/05	Lead	101	2	mg/kg
		3/2/05	3/4/05	pH Paste	6.62		
		3/2/05	3/11/05	Sulfate - Leachable	2130	5	mg/Kg
		3/2/05	4/5/05	Sulfate in Soils	3800	500	mg/kg
AN03409	EPX-116						
		3/2/05	3/4/05	Arsenic	67	2	mg/kg
		3/2/05	3/4/05	Soil Paste Conductivity	2220		umhos/cm
		3/2/05	3/4/05	Lead	126	2	mg/kg
		3/2/05	3/4/05	pH Paste	6.26		
		3/2/05	3/11/05	Sulfate - Leachable	2190	5	mg/Kg
		3/2/05	4/5/05	Sulfate in Soils	10200	500	mg/kg
AN03410	EPX-117						
		3/3/05	3/4/05	Arsenic	7.7	2	mg/kg
		3/3/05	3/4/05	Soil Paste Conductivity	2070		umhos/cm
		3/3/05	3/4/05	Lead	40	2	mg/kg
		3/3/05	3/4/05	pH Paste	7.87		
		3/3/05	3/11/05	Sulfate - Leachable	1980	5	mg/Kg
		3/3/05	4/5/05	Sulfate in Soils	8100	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/4/2005

Quality Assurance Statement for Samples: **AN03406 - AN03419**

Original: AN03419 **Spike Sample:** AN03436 **Blank SPIKE:** AN03438

Duplicate: AN03435 **Blank Sample:** AN03437 **Reference Sample:** AN03439 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	350	320	8.96	100	410	**90**	Below MDL	96	**96**	169	161	**105**
Cadmium	0.5	6.9	6.3	9.09	100	92	**92**	Below MDL	93	**93**	124	128	**97**
Lead	1	1050	950	10.00	100	1030	*	Below MDL	97	**97**	146	142	**103**
Selenium	2	Below MDL	Below MDL	**	100	100	**100**	Below MDL	85	**85**	59.6	64.2	**93**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 3/9/2005
QC: Sample#: AN03419
Login Group: 03091026

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN03808	EPX-118						
		3/8/05	3/10/05	Arsenic	31	2	mg/kg
		3/8/05	4/1/05	Soil Paste Conductivity	2860		umhos/cm
		3/8/05	3/10/05	Lead	169	2	mg/kg
		3/8/05	4/1/05	pH Paste	6.93		
		3/8/05	4/6/05	Sulfate - Leachable	2970	5	mg/Kg
		3/8/05	4/5/05	Sulfate in Soils	90100	500	mg/kg
AN03809	EPX-119						
		3/8/05	3/10/05	Arsenic	38	2	mg/kg
		3/8/05	4/1/05	Soil Paste Conductivity	2640		umhos/cm
		3/8/05	3/10/05	Lead	118	2	mg/kg
		3/8/05	4/1/05	pH Paste	4.84		
		3/8/05	4/6/05	Sulfate - Leachable	2780	5	mg/Kg
		3/8/05	4/5/05	Sulfate in Soils	13900	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/4/2005

Quality Assurance Statement for Samples: **AN03406 - AN03419**

Original: AN03419 **Spike Sample:** AN03436 **Blank SPIKE:** AN03438

Duplicate: AN03435 **Blank Sample:** AN03437 **Reference Sample:** AN03439 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	350	320	8.96	100	410	**90**	Below MDL	96	**96**	169	161	**105**
Cadmium	0.5	6.9	6.3	9.09	100	92	**92**	Below MDL	93	**93**	124	128	**97**
Lead	1	1050	950	10.00	100	1030	*	Below MDL	97	**97**	146	142	**103**
Selenium	2	Below MDL	Below MDL	**	100	100	**100**	Below MDL	85	**85**	59.6	64.2	**93**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory
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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 3/15/2005
QC: Sample#: AN03950
Login Group: 03151413

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN03948	EPX-120						
		3/14/05	3/18/05	Arsenic	41	2	mg/kg
		3/14/05	4/1/05	Soil Paste Conductivity	2410		umhos/cm
		3/14/05	3/18/05	Lead	139	2	mg/kg
		3/14/05	4/1/05	pH Paste	5.03		
		3/14/05	4/6/05	Sulfate - Leachable	2280	5	mg/Kg
		3/14/05	4/5/05	Sulfate in Soils	15000	500	mg/kg
AN03949	EPX-121						
		3/14/05	3/18/05	Arsenic	134	2	mg/kg
		3/14/05	4/1/05	Soil Paste Conductivity	2280		umhos/cm
		3/14/05	3/18/05	Lead	83	2	mg/kg
		3/14/05	4/1/05	pH Paste	4.77		
		3/14/05	4/6/05	Sulfate - Leachable	2140	5	mg/Kg
		3/14/05	4/5/05	Sulfate in Soils	14400	500	mg/kg

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Lynn A. Hutchinson

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KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/17/2005

Quality Assurance Statement for Samples: **AN03948 - AM03950**

Original: AN03950 **Spike Sample:** AN04146 **Blank SPIKE:** AN04148

Duplicate: AN04145 **Blank Sample:** AN04147 **Reference Sample:** AN04149 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	160	144	10.53	100	215	**71**	Below MDL	88	**88**	159	130	**122**
Arsenic	2	1330	1250	6.20	100	1160	*	Below MDL	98	**98**	181	161	**112**
Barium	2	4150	4138	0.29	100	3390	*	Below MDL	103	**103**	283	252	**112**
Cadmium	0.5	11.7	13.6	-15.02	100	104	**104**	Below MDL	100	**100**	134	128	**105**
Chromium	1	9.3	9.3	0.00	100	108	**99**	Below MDL	101	**101**	74	69.5	**106**
Lead	1	3680	3660	0.54	100	2510	*	Below MDL	100	**100**	157	142	**111**
Selenium	2	7.8	9.2	**	100	98	**89**	Below MDL	91	**91**	65	64.2	**101**
Copper	1	6040	6110	-1.15	100	4480	*	Below MDL	100	**100**	161	148	**109**

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

EHUD ARDON

CERTIFICATE OF ANALYSIS

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

Date 4/22/2005

Submission Date: 3/18/2005
QC: Sample#: AN04225
Login Group: 03180919

Total Metal

Lab	Descrription	Collection Date	Analysis Date	Analyte	RESULT	MDL	Units
AN04225	EPX-122						
		3/17/05	3/22/05	Arsenic	34	2	mg/kg
		3/17/05	4/1/05	Soil Paste Conductivity	2640		umhos/cm
		3/17/05	3/22/05	Lead	169	2	mg/kg
		3/17/05	4/1/05	pH Paste	4.99		
		3/17/05	4/6/05	Sulfate - Leachable	2740	5	mg/Kg
		3/17/05	4/5/05	Sulfate in Soils	23700	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/21/2005

Quality Assurance Statement for Samples: **AN04257 - AN04258**

Original: AN04225 **Spike Sample:** AN04247 **Blank SPIKE:** AN04249

Duplicate: AN04246 **Blank Sample:** AN04248 **Reference Sample:** AN04250 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	34	32	6.06	100	122	**88**	Below MDL	99	**99**	178	161	**111**
Lead	1	169	166	1.79	100	239	**70**	Below MDL	100	**100**	152	142	**107**

* = Sample concentration is 5 times higher than the spike amount.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

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CERTIFICATE OF ANALYSIS

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

Date 4/22/2005

Submission Date: 3/31/2005
QC: Sample#: AN04906
Login Group: 03311647

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN04904	EPX-123						
		3/30/05	4/1/05	Arsenic	46	2	mg/kg
		3/30/05	4/4/05	Soil Paste Conductivity	2940		umhos/cm
		3/30/05	4/1/05	Lead	122	2	mg/kg
		3/30/05	4/4/05	pH Paste	6.49		
		3/30/05	4/6/05	Sulfate - Leachable	2840	5	mg/Kg
AN04905	EPX-124						
		3/30/05	4/1/05	Arsenic	164	2	mg/kg
		3/30/05	4/4/05	Soil Paste Conductivity	2610		umhos/cm
		3/30/05	4/1/05	Lead	94	2	mg/kg
		3/30/05	4/4/05	pH Paste	4.49		
		3/30/05	4/6/05	Sulfate - Leachable	2300	5	mg/Kg
AN04906	EPX-125						
		3/30/05	4/1/05	Arsenic	56	2	mg/kg
		3/30/05	4/4/05	Soil Paste Conductivity	2370		umhos/cm
		3/30/05	4/1/05	Lead	97	2	mg/kg
		3/30/05	4/4/05	pH Paste	5.19		
		3/30/05	4/6/05	Sulfate - Leachable	2150	5	mg/Kg

ed by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/1/2005

Quality Assurance Statement for Samples: **AN04904 - AN04906**

Original: AN04906 **Spike Sample:** AN04913 **Blank SPIKE:** AN04915

Duplicate: AN04912 **Blank Sample:** AN04914 **Reference Sample:** AN04916 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	56	67	**	100	153	**97**	Below MDL	97	**97**	175	161	**109**
Lead	1	97	91	6.38	100	174	**77**	Below MDL	99	**99**	151	142	**106**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

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EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 4/7/2005
QC: Sample#: AN05061
Login Group: 04071436

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN05294	EPX-124A						
		4/6/05	4/8/05	Arsenic	10	2	mg/kg
		4/6/05	4/11/05	Soil Paste Conductivity	2290		umhos/cm
		4/6/05	4/11/05	Lead	59	0.05	mg/kg
		4/6/05	4/11/05	pH Paste	4.42		
		4/6/05	4/13/05	Sulfate - Leachable	1780	5	mg/Kg
AN05295	EPX-125A						
		4/6/05	4/8/05	Arsenic	9	2	mg/kg
		4/6/05	4/11/05	Lead	59	0.05	mg/kg
		4/6/05	4/11/05	pH Paste	4.70		

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/8/2005

Quality Assurance Statement for Samples: **AN05061 - AN05062**
AN05118
AN05156 - AN05157
AN05273 - AN05295

Original: AN05061 **Spike Sample:** AN05297 **Blank SPIKE:** AN05299

Duplicate: AN05296 **Blank Sample:** AN05298 **Reference Sample:** AN05300 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	98	**98**	Below MDL	98	**98**	149	130	**115**
Arsenic	2	25	24	4.08	100	120	**95**	Below MDL	95	**95**	167	161	**104**
Barium	2	82	82	0.00	100	182	**100**	Below MDL	99	**99**	266	252	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	94	**94**	Below MDL	95	**95**	127	128	**99**
Chromium	1	126	130	-3.13	100	208	**82**	Below MDL	99	**99**	73	69.5	**105**
Lead	1	78	77	1.29	100	176	**98**	Below MDL	90	**90**	147	142	**104**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	84	**84**	57	64.2	**89**
Copper	1	217	218	-0.46	100	325	**108**	Below MDL	103	**103**	163	148	**110**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 5/2/2005

QC Reference Sample: **AN06872**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN06870	EPX-121A	4/29/2005	5/17/2005	pH Paste	**7.23**		
			5/3/2005	Arsenic	**146**	2	mg/kg
			5/3/2005	Lead	**100**	2	mg/kg
			5/19/2005	Sulfate - Leachable	**1790**	5	mg/Kg
			5/26/2005	Sulfate in Soils	**12000**	500	mg/kg
			5/17/2005	Soil Paste Conductivity	**2160**		umhos/cm
AN06871	EPX-126	4/29/2005	5/17/2005	pH Paste	**7.51**		
			5/3/2005	Arsenic	**20**	2	mg/kg
			8/1/2005	Barium	**36**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**12**	2	mg/kg
			5/3/2005	Lead	**50**	2	mg/kg
			8/1/2005	Selenium	**7**	2	mg/kg
			8/1/2005	Silver	**7**	1	mg/kg
			5/19/2005	Sulfate - Leachable	**1430**	5	mg/Kg
			5/26/2005	Sulfate in Soils	**<500**	500	mg/kg
			5/17/2005	Soil Paste Conductivity	**1770**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/3/2005

Quality Assurance Statement for Samples: **AN06870 - AN06872**
AN06892 - AN06894

Original: AN06872 **Spike Sample:** AN06976 **Blank SPIKE:** AN06978

Duplicate: AN06975 **Blank Sample:** AN06977 **Reference Sample:** AN06979 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	5	4	22.22	100	97	**93**	Below MDL	98	**105**	153	130	**118**
Arsenic	2	25	28	-11.32	100	135	**107**	Below MDL	100	**108**	177	161	**110**
Barium	2	104	102	1.94	100	211	**109**	Below MDL	100	**109**	277	252	**110**
Cadmium	0.5	Below MDL	Below MDL	**	100	94	**94**	Below MDL	96	**104**	129	128	**101**
Chromium	1	33	32	3.08	100	134	**101**	Below MDL	100	**109**	76	69.5	**109**
Lead	1	168	173	-2.93	100	281	**113**	Below MDL	99	**108**	152	142	**107**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	95	**98**	64	64.2	**100**
Copper	1	394	496	-22.92	100	520	*	Below MDL	105	**113**	165	148	**111**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 5/10/2005

QC Reference Sample: **AN07416**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN07415	EPX-127	5/5/2005	5/17/2005	pH Paste	7.35		
			5/13/2005	Arsenic	15	2	mg/kg
			8/1/2005	Barium	61	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	14	2	mg/kg
			5/13/2005	Lead	51	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			5/19/2005	Sulfate - Leachable	2150	5	mg/Kg
			5/26/2005	Sulfate in Soils	3600	500	mg/kg
			5/17/2005	Soil Paste Conductivity	2590		umhos/cm
AN07416	EPX-128	5/5/2005	5/17/2005	pH Paste	7.53		
			5/13/2005	Arsenic	22	2	mg/kg
			5/13/2005	Barium	35	2	mg/kg
			5/13/2005	Cadmium	Below MDL	1	mg/kg
			5/13/2005	Chromium	12	2	mg/kg
			5/13/2005	Copper	151	2.0	mg/kg
			5/13/2005	Lead	53	2	mg/kg
			5/13/2005	Selenium	Below MDL	2	mg/kg
			5/13/2005	Silver	Below MDL	1	mg/kg
			5/19/2005	Sulfate - Leachable	2700	5	mg/Kg
			5/26/2005	Sulfate In Soils	8400	500	mg/kg
			5/17/2005	Soil Paste Conductivity	2680		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/11/2005

Quality Assurance Statement for Samples: **AN07236 - AN07239**
AN07415 - AN07416

Original: AN07416 **Spike Sample:** AN07494 **Blank SPIKE:** AN07496

Duplicate: AN07493 **Blank Sample:** AN07495 **Reference Sample:** AN07497 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	121	**121**	Below MDL	102	**105**	148	130	**114**
Arsenic	2	22	16	**	100	115	**99**	Below MDL	101	**108**	166	161	**103**
Barium	2	35	42	-18.18	100	144	**102**	Below MDL	107	**109**	261	252	**104**
Cadmium	0.5	Below MDL	Below MDL	**	100	94.2	**94**	Below MDL	97	**104**	122	128	**95**
Chromium	1	12	13	-8.00	100	115	**103**	Below MDL	106	**109**	74	69.5	**106**
Lead	1	53	52	1.90	100	146	**93**	Below MDL	102	**108**	143	142	**101**
Selenium	2	Below MDL	Below MDL	**	100	90	**90**	Below MDL	90	**98**	56	64.2	**87**
Copper	1	151	166	-9.46	100	269	**118**	Below MDL	106	**113**	188	148	**127**

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** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

Kennecott Environmental Laboratory

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 5/23/2005

QC Reference Sample: AN07419

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN08301	EPX-121B	5/18/2005	6/7/2005	pH Paste	3.93		
			5/24/2005	Arsenic	44	2	mg/kg
			5/24/2005	Lead	80	2	mg/kg
			6/10/2005	Sulfate - Leachable	1960	5	mg/Kg
			5/26/2005	Sulfate in Soils	19800	500	mg/kg
			6/7/2005	Soil Paste Conductivity	2510		umhos/cm
AN08302	EPX-129	5/18/2005	6/7/2005	pH Paste	5.14		
			5/24/2005	Arsenic	12	2	mg/kg
			8/1/2005	Barium	110	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	22	2	mg/kg
			5/24/2005	Lead	111	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			6/10/2005	Sulfate - Leachable	2500	5	mg/Kg
			5/26/2005	Sulfate in Soils	8700	500	mg/kg
			6/7/2005	Soil Paste Conductivity	2980		umhos/cm
AN08303	EPX-130	5/18/2005	6/7/2005	pH Paste	7.50		
			5/24/2005	Arsenic	12	2	mg/kg
			8/1/2005	Barium	49	2	mg/kg
			8/1/2005	Cadmium	2	1	mg/kg
			8/1/2005	Chromium	10	2	mg/kg
			5/24/2005	Lead	53	2	mg/kg
			8/1/2005	Selenium	2	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			6/10/2005	Sulfate - Leachable	2170	5	mg/Kg
			5/26/2005	Sulfate in Soils	30000	500	mg/kg
			6/7/2005	Soil Paste Conductivity	2540		umhos/cm

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation 5/24/2005

Qulaity Assurance Statement for Samples: **AN08209**
AN07417 - AN07419
AN08301 - AN08308
AN08338 - AN08339

Original: AN07419 **Spike Sample:** AN08344 **Blank SPIKE:** AN08346

Duplicate: AN08343 **Blank Sample:** AN08345 **Reference Sample:** AN08347 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	99	**99**	Below MDL	98	**98**	174	130	**134**
Arsenic	2	8	7	**	100	105	**97**	Below MDL	99	**99**	172	161	**107**
Barium	2	106	98	7.84	100	199	**93**	Below MDL	101	**101**	269	252	**107**
Cadmium	0.5	Below MDL	Below MDL	**	100	86	**86**	Below MDL	97	**97**	132	128	**103**
Chromium	1	23	28	-19.61	100	113	**90**	Below MDL	102	**102**	77	69.5	**111**
Lead	1	Below MDL	Below MDL	**	100	95	**95**	Below MDL	101	**101**	151	142	**106**
Selenium	2	Below MDL	Below MDL	**	100	84	**84**	Below MDL	87	**87**	60	64.2	**93**
Copper	1	30	37	-20.90	100	142	**112**	Below MDL	103	**103**	167	148	**113**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 6/3/2005

QC Reference Sample: **AN08916**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN08912	EPX-131	6/2/2005	6/8/2005	pH Paste	**4.94**		
			6/13/2005	Arsenic	**21**	2	mg/kg
			8/1/2005	Barium	**137**	2	mg/kg
			8/1/2005	Cadmium	**1**	1	mg/kg
			8/1/2005	Chromium	**36**	2	mg/kg
			6/13/2005	Lead	**213**	2	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			6/10/2005	Sulfate - Leachable	**3200**	5	mg/Kg
			6/29/2005	Sulfate in Soils	**34200**	500	mg/kg
			6/8/2005	Soil Paste Conductivity	**3300**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/13/2005

Quality Assurance Satement for Samples: **AN08916**
AN08912 - AN08916
AN09484 - AN09486
AN09498 - AN09499

Original: AN08916 **Spike Sample:** AN09501 **Blank SPIKE:** AN09503

Duplicate: AN09500 **Blank Sample:** AN09502 **Reference Sample:** AN09504 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	105	**105**	149	130	**115**
Arsenic	2	11	8	**	100	106	**106**	Below MDL	98	**98**	165	161	**102**
Barium	2	119	121	-1.67	100	221	**102**	Below MDL	101	**101**	264	252	**105**
Cadmium	0.5	Below MDL	Below MDL	0.00	100	92	**92**	Below MDL	96	**96**	122	128	**95**
Chromium	1	23	17	30.00	100	118	**118**	Below MDL	104	**104**	75	69.5	**108**
Lead	1	46	48	**	100	138	**138**	Below MDL	103	**103**	147	142	**104**
Selenium	2	Below MDL	Below MDL	**	100	80	**80**	Below MDL	84	**84**	52	64.2	**81**
Copper	1	36	37	-2.74	100	136	**100**	Below MDL	106	**106**	159	148	**107**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 7/5/2005

QC Reference Sample: **AN11055**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN11055	EPX-132	6/30/2005	7/26/2005	pH Paste	**6.51**		
			7/7/2005	Arsenic	**23**	2	mg/kg
			8/1/2005	Barium	**98**	2	mg/kg
			8/1/2005	Cadmium	**2**	1	mg/kg
			8/1/2005	Chromium	**24**	2	mg/kg
			7/7/2005	Lead	**94**	2	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			7/29/2005	Sulfate - Leachable	**3210**	5	mg/Kg
			7/20/2005	Sulfate in Soils	**9300**	500	mg/kg
			7/26/2005	Soil Paste Conductivity	**3150**		umhos/cm
AN11056	EPX-133	6/30/2005	7/26/2005	pH Paste	**5.56**		
			7/7/2005	Arsenic	**15**	2	mg/kg
			8/1/2005	Barium	**102**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**33**	2	mg/kg
			7/7/2005	Lead	**159**	2	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			7/29/2005	Sulfate - Leachable	**3440**	5	mg/Kg
			7/20/2005	Sulfate in Soils	**27300**	500	mg/kg
			7/26/2005	Soil Paste Conductivity	**3390**		umhos/cm
AN11057	EPX-134	6/30/2005	7/26/2005	pH Paste	**5.10**		
			7/7/2005	Arsenic	**19**	2	mg/kg
			8/1/2005	Barium	**132**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**31**	2	mg/kg
			7/7/2005	Lead	**165**	2	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			7/29/2005	Sulfate - Leachable	**3570**	5	mg/Kg
			7/20/2005	Sulfate in Soils	**27900**	500	mg/kg
			7/26/2005	Soil Paste Conductivity	**3310**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN11058	EPX-135	6/30/2005	7/26/2005	pH Paste	4.75		
			7/7/2005	Arsenic	65	2	mg/kg
			8/1/2005	Barium	125	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	32	2	mg/kg
			7/7/2005	Lead	286	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			7/29/2005	Sulfate - Leachable	3170	5	mg/Kg
			7/20/2005	Sulfate in Soils	30600	500	mg/kg
			7/26/2005	Soil Paste Conductivity	3070		umhos/cm
AN11059	EPX-136	6/30/2005	7/26/2005	pH Paste	5.48		
			7/7/2005	Arsenic	38	2	mg/kg
			8/1/2005	Barium	112	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	34	2	mg/kg
			7/7/2005	Lead	169	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			7/29/2005	Sulfate - Leachable	4420	5	mg/Kg
			7/20/2005	Sulfate in Soils	32100	500	mg/kg
			7/26/2005	Soil Paste Conductivity	3950		umhos/cm
AN11060	EPX-137	6/30/2005	7/26/2005	pH Paste	6.00		
			7/7/2005	Arsenic	23	2	mg/kg
			8/1/2005	Barium	81	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	27	2	mg/kg
			7/7/2005	Lead	128	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			7/29/2005	Sulfate - Leachable	3420	5	mg/Kg
			7/20/2005	Sulfate in Soils	17400	500	mg/kg
			7/26/2005	Soil Paste Conductivity	3160		umhos/cm
AN11061	EPX-138	6/30/2005	7/26/2005	pH Paste	5.39		
			7/7/2005	Arsenic	26	2	mg/kg
			8/1/2005	Barium	44	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Chromium	20	2	mg/kg
			7/7/2005	Lead	76	2	mg/kg
			8/1/2005	Selenium	Below MDL	2	mg/kg
			8/1/2005	Silver	Below MDL	1	mg/kg
			7/29/2005	Sulfate - Leachable	2290	5	mg/Kg
			7/20/2005	Sulfate in Soils	10800	500	mg/kg
			7/26/2005	Soil Paste Conductivity	2440		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN11055-AN11061**

Original: AN11055 **Spike Sample:** AN11118 **Blank Spike:** AN11120

Duplicate: AN11117 **Blank Sample:** AN11119 **Reference Sample:** AN11121 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	94	**94**	Below MDL	127	**127**	136	130	**105**
Arsenic	2	23	16	35.90	100	106	**106**	Below MDL	108	**108**	150	161	**93**
Barium	2	98	88	10.75	100	179	**81**	Below MDL	111	**111**	243	252	**96**
Cadmium	0.5	2	Below MDL	**	100	92	**92**	Below MDL	106	**106**	117	128	**91**
Chromium	1	24	21	13.33	100	119	**95**	Below MDL	111	**111**	67	70	**96**
Lead	1	94	78	18.60	100	151	**57*** **	Below MDL	110	**110**	130	142	**92**
Selenium	2	Below MDL	Below MDL	**	100	81	**81**	Below MDL	96	**96**	49	64	**77**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 7/21/2005

QC Reference Sample: **AN12251**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN12253	EPX-135A	7/20/2005	7/26/2005	pH Paste	**4.62**		
			7/22/2005	Arsenic	**14**	2	mg/kg
			8/1/2005	Barium	**132**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Chromium	**26**	2	mg/kg
			7/22/2005	Lead	**146**	2	mg/kg
			8/1/2005	Selenium	**Below MDL**	2	mg/kg
			8/1/2005	Silver	**Below MDL**	1	mg/kg
			7/29/2005	Sulfate - Leachable	**2500**	5	mg/Kg
			8/24/2005	Sulfate in Soils	**17700**	500	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN12239-AN12253**

Original: AN12251 **Spike Sample:** AN12285 **Blank Spike:** AN12287

Duplicate: AN12284 **Blank Sample:** AN12286 **Reference Sample:** AN12288 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	93	**93**	Below MDL	101	**101**	115	102	**113**
Arsenic	2	70	80	-13.33	100	166	**96**	Below MDL	98	**98**	118	111	**106**
Barium	2	132	123	7.06	100	216	**84**	Below MDL	102	**102**	205	195	**105**
Cadmium	0.5	Below MDL	Below MDL	**	100	89.5	**90**	Below MDL	98.2	**98**	109	110	**99**
Chromium	1	30	30	0.00	100	126	**96**	Below MDL	102	**102**	167	154	**108**
Lead	1	320	364	-12.87	100	419	**99**	Below MDL	101	**101**	160	158	**101**
Selenium	2	Below MDL	Below MDL	**	100	78	**78**	Below MDL	90	**90**	86	94.4	**91**
Copper	1	923	993	-7.31	100	1080	**157***	Below MDL	105	**105**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 8/9/2005

QC Reference Sample: **AN13348**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN13482	EPX-139	8/9/2005	8/12/2005	pH Paste	**6.77**		
			8/11/2005	Arsenic	**55**	2	mg/kg
			8/11/2005	Lead	**296**	2	mg/kg
			9/8/2005	Sulfate - Leachable	**3250**	5	mg/Kg
			8/29/2005	Sulfate in Soils	**26700**	500	mg/kg
			8/12/2005	Soil Paste Conductivity	**3580**		umhos/cm
AN13483	EPX-140	8/9/2005	8/12/2005	pH Paste	**4.72**		
			8/10/2005	Arsenic	**49**	2	mg/kg
			8/10/2005	Lead	**265**	2	mg/kg
			9/8/2005	Sulfate - Leachable	**3850**	5	mg/Kg
			8/29/2005	Sulfate in Soils	**35700**	500	mg/kg
			8/12/2005	Soil Paste Conductivity	**3770**		umhos/cm
AN13484	EPX-141	8/9/2005	8/12/2005	pH Paste	**4.84**		
			8/10/2005	Arsenic	**26**	2	mg/kg
			8/10/2005	Lead	**86**	2	mg/kg
			9/8/2005	Sulfate - Leachable	**1480**	5	mg/Kg
			8/29/2005	Sulfate in Soils	**8100**	500	mg/kg
			8/12/2005	Soil Paste Conductivity	**1880**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/10/2005

Quality Assurance Satement for Samples: **an13348**
an13349-an13351
an13482-an13484

Original: an13348 **Spike Sample:** an13509 **Blank SPIKE:** an13511

Duplicate: an13508 **Blank Sample:** an13510 **Reference Sample:** an13512 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	88000	87700	0.34	100	86700	*	Below MDL	98	**98**		111	**0**
Cadmium	0.5	252	259	**	100	360	**108**	Below MDL	97	**97**		110	**0**
Lead	1	36700	34600	5.89	100	34200	*	Below MDL	99	**99**		158	**0**
Selenium	2	107	105	**	100	182	**75**	Below MDL	88	**88**		94	**0**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 30-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 8/23/2005

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: **AN14367**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN14359	EPX-142	8/22/2005	8/26/2005	Arsenic	**28**	2	mg/kg
			8/26/2005	Lead	**94**	2	mg/kg
			10/7/2005	Sulfate - Leachable	**1830**	5	mg/Kg
			9/28/2005	Sulfate in Soils	**12900**	500	mg/kg
			8/30/2005	Soil Paste Conductivity	**2280**		umhos/cm
AN14360	EPX-143	8/22/2005	8/26/2005	Arsenic	**16**	2	mg/kg
			8/26/2005	Lead	**60**	2	mg/kg
			10/7/2005	Sulfate - Leachable	**2290**	5	mg/Kg
			9/28/2005	Sulfate in Soils	**20100**	500	mg/kg
			8/30/2005	Soil Paste Conductivity	**2210**		umhos/cm
AN14361	EPX-144	8/22/2005	10/27/2005	Sulfur	**NOT ANALYZED**	0.01	%
			8/26/2005	Arsenic	**72**	2	mg/kg
			8/26/2005	Lead	**83**	2	mg/kg
			10/7/2005	Sulfate - Leachable	**202**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**23400**	500	mg/kg
			8/30/2005	Soil Paste Conductivity	**2540**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/26/2005

Quality Assurance Satement for Samples: **an14359-an14370**

Original: an14367 **Spike Sample:** an14655 **Blank SPIKE:** an14657

Duplicate: an14654 **Blank Sample:** an14656 **Reference Sample:** an14658 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	6	6	**	100	102	**96**	Below MDL	97	**97**	114	111	**103**
Barium	2	239	236	1.26	100	293	**54**	Below MDL	101	**101**	206	195	**106**
Cadmium	0.5	below MDL	below MDL	**	100	87	**87**	Below MDL	98	**98**	109	110	**99**
Chromium	1	12	12	0.00	100	110	**98**	Below MDL	102	**102**	165	154	**107**
Lead	1	below MDL	below MDL	**	100	93	**93**	Below MDL	98	**98**	162	158	**103**
Selenium	2	below MDL	below MDL	**	100	82	**78**	Below MDL	88	**88**	82	94.4	**87**
Copper	1	30	33	-9.52	100	138	**108**	Below MDL	106	**106**	120	148	**81**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 9/20/2005

QC Reference Sample: **AN16068**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN16061	EPX-139A	9/20/2005	9/30/2005	pH Paste	**3.97**		
			10/27/2005	Sulfur	**Scratched**	0.01	%
			9/21/2005	Arsenic	**49**	2	mg/kg
			9/21/2005	Barium	**47**	2	mg/kg
			9/21/2005	Cadmium	**Below MDL**	1	mg/kg
			9/21/2005	Chromium	**14**	2	mg/kg
			9/21/2005	Lead	**74**	2	mg/kg
			9/21/2005	Selenium	**Below MDL**	2	mg/kg
			9/21/2005	Silver	**2**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**594**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**13800**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**980**		umhos/cm
AN16062	EPX-140A	9/20/2005	9/30/2005	pH Paste	**4.23**		
			9/21/2005	Arsenic	**27**	2	mg/kg
			9/21/2005	Barium	**49**	2	mg/kg
			9/21/2005	Cadmium	**Below MDL**	1	mg/kg
			9/21/2005	Chromium	**19**	2	mg/kg
			9/21/2005	Lead	**61**	2	mg/kg
			9/21/2005	Selenium	**Below MDL**	2	mg/kg
			9/21/2005	Silver	**Below MDL**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**785**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**7200**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**1240**		umhos/cm
AN16063	EPX-144A	9/19/2005	9/30/2005	pH Paste	**4.55**		
			9/21/2005	Arsenic	**12**	2	mg/kg
			9/21/2005	Barium	**56**	2	mg/kg
			9/21/2005	Cadmium	**Below MDL**	1	mg/kg
			9/21/2005	Chromium	**25**	2	mg/kg
			9/21/2005	Lead	**40**	2	mg/kg
			9/21/2005	Selenium	**Below MDL**	2	mg/kg
			9/21/2005	Silver	**Below MDL**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**1300**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**16800**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**1820**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN16064	EPX-145	9/19/2005	9/30/2005	pH Paste	6.87		
			9/21/2005	Arsenic	14	2	mg/kg
			9/21/2005	Barium	57	2	mg/kg
			9/21/2005	Cadmium	Below MDL	1	mg/kg
			9/21/2005	Chromium	20	2	mg/kg
			9/21/2005	Lead	59	2	mg/kg
			9/21/2005	Selenium	Below MDL	2	mg/kg
			9/21/2005	Silver	Below MDL	1	mg/kg
			10/6/2005	Sulfate - Leachable	1540	5	mg/Kg
			10/27/2005	Sulfate in Soils	11700	500	mg/kg
			9/30/2005	Soil Paste Conductivity	2000		umhos/cm
AN16065	EPX-146	9/19/2005	9/30/2005	pH Paste	5.16		
			9/21/2005	Arsenic	12	2	mg/kg
			9/21/2005	Barium	60	2	mg/kg
			9/21/2005	Cadmium	Below MDL	1	mg/kg
			9/21/2005	Chromium	18	2	mg/kg
			9/21/2005	Lead	61	2	mg/kg
			9/21/2005	Selenium	Below MDL	2	mg/kg
			9/21/2005	Silver	Below MDL	1	mg/kg
			10/6/2005	Sulfate - Leachable	2050	5	mg/Kg
			10/27/2005	Sulfate in Soils	18600	500	mg/kg
			9/30/2005	Soil Paste Conductivity	2670		umhos/cm
AN16066	EPX-147	9/19/2005	9/30/2005	pH Paste	5.25		
			9/21/2005	Arsenic	13	2	mg/kg
			9/21/2005	Barium	75	2	mg/kg
			9/21/2005	Cadmium	Below MDL	1	mg/kg
			9/21/2005	Chromium	23	2	mg/kg
			9/21/2005	Lead	64	2	mg/kg
			9/21/2005	Selenium	Below MDL	2	mg/kg
			9/21/2005	Silver	Below MDL	1	mg/kg
			10/6/2005	Sulfate - Leachable	2100	5	mg/Kg
			10/27/2005	Sulfate in Soils	15600	500	mg/kg
			9/30/2005	Soil Paste Conductivity	2810		umhos/cm
AN16067	EPX-148	9/19/2005	9/30/2005	pH Paste	4.48		
			9/21/2005	Arsenic	17	2	mg/kg
			9/21/2005	Barium	33	2	mg/kg
			9/21/2005	Cadmium	Below MDL	1	mg/kg
			9/21/2005	Chromium	16	2	mg/kg
			9/21/2005	Lead	51	2	mg/kg
			9/21/2005	Selenium	Below MDL	2	mg/kg
			9/21/2005	Silver	Below MDL	1	mg/kg
			10/6/2005	Sulfate - Leachable	1420	5	mg/Kg
			10/27/2005	Sulfate in Soils	7800	500	mg/kg
			9/30/2005	Soil Paste Conductivity	2040		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
REL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/21/2005

Quality Assurance Satement for Samples: **an16039**
an16061-an16068

Original: an16068 **Spike Sample:** an16084 **Blank SPIKE:** an16086

Duplicate: an16083 **Blank Sample:** an16085 **Reference Sample:** an16087 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	15	17	**	100	108	**93**	Below MDL	88	**88**	110	111	**99**
Barium	2	76	93	-20.12	100	189	**113**	Below MDL	92	**92**	203	195	**104**
Cadmium	0.5	1	1	**	100	93	**93**	Below MDL	88	**88**	105	110	**95**
Chromium	1	19	22	-14.63	100	121	**102**	Below MDL	94	**94**	167	154	**108**
Lead	1	82	84	-2.41	100	175	**93**	Below MDL	87	**87**	153	158	**97**
Selenium	2	below MDL	below MDL	**	100	38	**76**	Below MDL	79	**79**	76	94.4	**81**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 30-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 9/28/2005

QC Reference Sample: **AN16589**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN16583	EPX-149	9/26/2005	9/30/2005	pH Paste	**5.14**		
			10/5/2005	Arsenic	**16**	2	mg/kg
			10/5/2005	Barium	**51**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**15**	2	mg/kg
			10/5/2005	Copper	**102**	2.0	mg/kg
			10/5/2005	Lead	**65**	2	mg/kg
			10/14/2005	Mercury	**0.02**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/5/2005	Silver	**Below MDL**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**1640**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**29400**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**2320**		umhos/cm
AN16584	EPX-150	9/26/2005	9/30/2005	pH Paste	**4.20**		
			10/5/2005	Arsenic	**9**	2	mg/kg
			10/5/2005	Barium	**74**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**18**	2	mg/kg
			10/5/2005	Copper	**130**	2.0	mg/kg
			10/5/2005	Lead	**66**	2	mg/kg
			10/14/2005	Mercury	**0.01**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/5/2005	Silver	**Below MDL**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**1800**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**8100**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**2360**		umhos/cm
AN16585	EPX-151	9/26/2005	9/30/2005	pH Paste	**3.72**		
			10/5/2005	Arsenic	**9**	2	mg/kg
			10/5/2005	Barium	**39**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**14**	2	mg/kg
			10/5/2005	Copper	**55**	2.0	mg/kg
			10/5/2005	Lead	**55**	2	mg/kg
			10/14/2005	Mercury	**Below MDL**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/5/2005	Silver	**Below MDL**	1	mg/kg
			10/6/2005	Sulfate - Leachable	**466**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**450**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**870**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN16586	EPX-152	9/26/2005	9/30/2005	pH Paste	4.87		
			10/5/2005	Arsenic	15	2	mg/kg
			10/5/2005	Barium	44	2	mg/kg
			10/5/2005	Cadmium	Below MDL	1	mg/kg
			10/5/2005	Chromium	18	2	mg/kg
			10/5/2005	Copper	140	2.0	mg/kg
			10/5/2005	Lead	51	2	mg/kg
			10/14/2005	Mercury	0.02	0.10	mg/kg
			10/5/2005	Selenium	Below MDL	2	mg/kg
			10/5/2005	Silver	Below MDL	1	mg/kg
			10/6/2005	Sulfate - Leachable	1660	5	mg/Kg
			10/27/2005	Sulfate in Soils	15900	500	mg/kg
			9/30/2005	Soil Paste Conductivity	2210		umhos/cm
AN16890	EPX-153	9/30/2005	10/13/2005	pH Paste	5.73		
			10/5/2005	Arsenic	11	2	mg/kg
			10/5/2005	Barium	54	2	mg/kg
			10/5/2005	Cadmium	Below MDL	1	mg/kg
			10/5/2005	Chromium	18	2	mg/kg
			10/5/2005	Copper	128	2.0	mg/kg
			10/5/2005	Lead	77	2	mg/kg
			10/14/2005	Mercury	0.02	0.10	mg/kg
			10/5/2005	Selenium	Below MDL	2	mg/kg
			10/7/2005	Sulfate - Leachable	2610	5	mg/Kg
			10/27/2005	Sulfate in Soils	5100	500	mg/kg
			10/13/2005	Soil Paste Conductivity	2780		umhos/cm
AN16891	EPX-154	9/30/2005	10/13/2005	pH Paste	4.24		
			10/5/2005	Arsenic	13	2	mg/kg
			10/5/2005	Barium	52	2	mg/kg
			10/5/2005	Cadmium	Below MDL	1	mg/kg
			10/5/2005	Chromium	15	2	mg/kg
			10/5/2005	Copper	125	2.0	mg/kg
			10/5/2005	Lead	67	2	mg/kg
			10/14/2005	Mercury	0.01	0.10	mg/kg
			10/5/2005	Selenium	Below MDL	2	mg/kg
			10/7/2005	Sulfate - Leachable	1730	5	mg/Kg
			10/27/2005	Sulfate in Soils	10800	500	mg/kg
			10/13/2005	Soil Paste Conductivity	2380		umhos/cm
AN16892	EPX-155	9/30/2005	10/13/2005	pH Paste	3.67		
			10/5/2005	Arsenic	17	2	mg/kg
			10/5/2005	Barium	28	2	mg/kg
			10/5/2005	Cadmium	Below MDL	1	mg/kg
			10/5/2005	Chromium	15	2	mg/kg
			10/5/2005	Copper	117	2.0	mg/kg
			10/5/2005	Lead	77	2	mg/kg
			10/14/2005	Mercury	0.01	0.10	mg/kg
			10/5/2005	Selenium	Below MDL	2	mg/kg
			10/7/2005	Sulfate - Leachable	560	5	mg/Kg
			10/27/2005	Sulfate in Soils	7200	500	mg/kg
			10/13/2005	Soil Paste Conductivity	970		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/4/2005

Quality Assurance Satement for Samples: **an16437**
an16583-an16590
an16890-an16892

Original: an16589 **Spike Sample:** an16909 **Blank Spike:** an16911

Duplicate: an16908 **Blank Sample:** an16910 **Reference Sample:** an16912 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	15	13	**	100	107	**92**	Below MDL	95	**95**	118	111	**106**
Barium	2	53	55	-3.70	100	153	**100**	Below MDL	98	**98**	205	195	**105**
Cadmium	0.5	below MDL	below MDL	**	100	93	**93**	Below MDL	94	**94**	109	110	**99**
Chromium	1	16	18	-11.76	100	116	**100**	Below MDL	99	**99**	168	154	**109**
Mercury	0.01	0.03	0.04	-28.57	2	1.6	**79**	Below MDL	1.8	**90**	9.1	16.9	**54**
Lead	1	58	60	-3.39	100	156	**98**	Below MDL	94	**94**	159	158	**101**
Selenium	2	below MDL	below MDL	**	100	81	**81**	Below MDL	85	**85**	82	94.4	**87**
Copper	1	76	76	0.00	100	191	**115**	Below MDL	102	**102**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = *Value is not greater than 10 times the MDL. An RPD cannot be calculated.*

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Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 30-May-06

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 10/12/2005

QC Reference Sample: **AN17529**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN17526	EPX-156	10/12/2005	10/13/2005	pH Paste	**3.94**		
			10/13/2005	Arsenic	**13**	2	mg/kg
			10/13/2005	Barium	**34**	2	mg/kg
			10/13/2005	Cadmium	**Below MDL**	1	mg/kg
			10/13/2005	Chromium	**10**	2	mg/kg
			10/13/2005	Copper	**79**	2.0	mg/kg
			10/13/2005	Lead	**49**	2	mg/kg
			10/28/2005	Mercury	**0.006**	0.10	mg/kg
			10/13/2005	Selenium	**Below MDL**	2	mg/kg
			10/25/2005	Sulfate - Leachable	**1560**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**1100**	500	mg/kg
			10/13/2005	Soil Paste Conductivity	**2050**		umhos/cm
AN17527	EPX-157	10/12/2005	10/13/2005	pH Paste	**4.79**		
			10/13/2005	Arsenic	**18**	2	mg/kg
			10/13/2005	Barium	**58**	2	mg/kg
			10/13/2005	Cadmium	**Below MDL**	1	mg/kg
			10/13/2005	Chromium	**16**	2	mg/kg
			10/13/2005	Copper	**214**	2.0	mg/kg
			10/13/2005	Lead	**68**	2	mg/kg
			10/28/2005	Mercury	**0.067**	0.10	mg/kg
			10/13/2005	Selenium	**Below MDL**	2	mg/kg
			10/25/2005	Sulfate - Leachable	**1680**	5	mg/Kg
			11/29/2005	Sulfate In Soils	**15900**	500	mg/kg
			10/13/2005	Soil Paste Conductivity	**2050**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/13/2005

Quality Assurance Satement for Samples: **an17104**
an17526-an17530

Original: an17529 **Spike Sample:** an17570 **Blank Spike:** an17572

Duplicate: an17569 **Blank Sample:** an17571 **Reference Sample:** an17573 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	544	414	27.14	100	535	***	Below MDL	96	**96**	114	111	**103**
Barium	2	93	66	33.96	100	174	**81**	Below MDL	98	**98**	198	195	**102**
Cadmium	0.5	1	below MDL	**	100	93	**93**	Below MDL	94	**94**	107	110	**97**
Chromium	1	154	117	27.31	100	222	**68**	Below MDL	98	**98**	159	154	**103**
Lead	1	107	76	33.88	100	177	**70**	Below MDL	96	**96**	158	158	**100**
Copper	1	173	138	22.51	100	243	**70**	Below MDL	103	**103**	117	148	**79**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 30-Mar-07

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 10/28/2005

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: **AN18284**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN18465	EPX-158	10/25/2005	10/28/2005	pH Paste	**3.46**		
			11/1/2005	Arsenic	**24**	2	mg/kg
			11/1/2005	Barium	**64**	2	mg/kg
			11/1/2005	Cadmium	**Below MDL**	1	mg/kg
			11/1/2005	Chromium	**25**	2	mg/kg
			11/1/2005	Copper	**190**	2.0	mg/kg
			11/1/2005	Lead	**100**	3	mg/kg
			12/6/2005	Mercury	**0.03**	0.10	mg/kg
			11/1/2005	Selenium	**Below MDL**	2	mg/kg
			11/8/2005	Sulfate - Leachable	**1150**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**6900**	500	mg/kg
			10/28/2005	Soil Paste Conductivity	**1710**		umhos/cm
AN18466	EPX-159	10/25/2005	10/28/2005	pH Paste	**2.93**		
			11/1/2005	Arsenic	**157**	2	mg/kg
			11/1/2005	Barium	**65**	2	mg/kg
			11/1/2005	Cadmium	**Below MDL**	1	mg/kg
			11/1/2005	Chromium	**52**	2	mg/kg
			11/1/2005	Copper	**196**	2.0	mg/kg
			11/1/2005	Lead	**82**	3	mg/kg
			12/6/2005	Mercury	**0.02**	0.10	mg/kg
			11/1/2005	Selenium	**Below MDL**	2	mg/kg
			11/8/2005	Sulfate - Leachable	**1830**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**21600**	500	mg/kg
			10/28/2005	Soil Paste Conductivity	**2470**		umhos/cm
AN18467	EPX-160	10/25/2005	10/28/2005	pH Paste	**5.49**		
			11/1/2005	Arsenic	**22**	2	mg/kg
			11/1/2005	Barium	**55**	2	mg/kg
			11/1/2005	Cadmium	**Below MDL**	1	mg/kg
			11/1/2005	Chromium	**21**	2	mg/kg
			11/1/2005	Copper	**143**	2.0	mg/kg
			11/1/2005	Lead	**91**	3	mg/kg
			12/6/2005	Mercury	**0.02**	0.10	mg/kg
			11/1/2005	Selenium	**Below MDL**	2	mg/kg
			11/8/2005	Sulfate - Leachable	**2450**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**33000**	500	mg/kg
			10/28/2005	Soil Paste Conductivity	**2820**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN18468	EPX-161	10/25/2005	10/28/2005	pH Paste	**3.98**		
			11/1/2005	Arsenic	**73**	2	mg/kg
			11/1/2005	Barium	**50**	2	mg/kg
			11/1/2005	Cadmium	**Below MDL**	1	mg/kg
			11/1/2005	Chromium	**46**	2	mg/kg
			11/1/2005	Copper	**157**	2.0	mg/kg
			11/1/2005	Lead	**92**	3	mg/kg
			12/6/2005	Mercury	**0.01**	0.10	mg/kg
			11/1/2005	Selenium	**Below MDL**	2	mg/kg
			11/8/2005	Sulfate - Leachable	**2050**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**21000**	500	mg/kg
			10/28/2005	Soil Paste Conductivity	**2540**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/30/2006

Quality Assurance Satement for Samples: **AN18281-AN18284**
AN18461-AN18468
AN17836-AN17838
AN18014

Original: AN18284 **Spike Sample:** AN18611 **Blank Spike:** AN18613

Duplicate: AN18610 **Blank Sample:** AN18612 **Reference Sample:** AN18614 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	32	29	9.84	100	126	**94**	Below MDL	93	**93**	117	111	**105**
Barium	2	98	97	1.03	100	201	**103**	Below MDL	95	**95**	207	195	**106**
Cadmium	0.5	1	1	**	100	91	**91**	Below MDL	92	**92**	109	110	**99**
Chromium	1	28	33	-16.39	100	139	**111**	Below MDL	95	**95**	164	154	**106**
Lead	1	64	70	-8.96	100	279	**215**	Below MDL	93	**93**	162	158	**103**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	85	**85**	84	94.4	**89**
Copper	1	829	1090	-27.20	100	1210	*	Below MDL	99	**99**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 30-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/3/2005

QC Reference Sample: **AN18143**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN18948	EPX-159A	11/2/2005	11/4/2005	Arsenic	**69**	2	mg/kg
			11/4/2005	Barium	**48**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**34**	2	mg/kg
			11/4/2005	Lead	**66**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**1390**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**9000**	500	mg/kg
AN18949	EPX-161A	11/2/2005	11/4/2005	Arsenic	**46**	2	mg/kg
			11/4/2005	Barium	**56**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**33**	2	mg/kg
			11/4/2005	Lead	**85**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**1530**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**12900**	500	mg/kg
AN18950	EPX-162	11/1/2005	11/4/2005	Arsenic	**55**	2	mg/kg
			11/4/2005	Barium	**57**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**45**	2	mg/kg
			11/4/2005	Lead	**44**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**2030**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**18600**	500	mg/kg
AN18951	EPX-163	11/1/2005	11/4/2005	Arsenic	**27**	2	mg/kg
			11/4/2005	Barium	**52**	2	mg/kg
			11/4/2005	Cadmium	**1**	1	mg/kg
			11/4/2005	Chromium	**29**	2	mg/kg
			11/4/2005	Lead	**62**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**659**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**5100**	500	mg/kg

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN18952	EPX-164	11/1/2005	11/4/2005	Arsenic	**12**	2	mg/kg
			11/4/2005	Barium	**50**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**13**	2	mg/kg
			11/4/2005	Lead	**64**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**1830**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**10200**	500	mg/kg
AN18953	EPX-165	11/1/2005	11/4/2005	Arsenic	**15**	2	mg/kg
			11/4/2005	Barium	**27**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**8**	2	mg/kg
			11/4/2005	Lead	**69**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**Below MDL**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**485**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**4200**	500	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
REL Laboratory Director

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: Ehud Ardon

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 11/3/2005

QC Reference Sample: **AN18143**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN18943	EPX - 166	11/3/2005	11/4/2005	Arsenic	**22**	2	mg/kg
			11/4/2005	Barium	**33**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**8**	2	mg/kg
			11/4/2005	Lead	**88**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**26**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**327**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**4200**	500	mg/kg
AN18944	EPX -167	11/3/2005	11/4/2005	Arsenic	**29**	2	mg/kg
			11/4/2005	Barium	**43**	2	mg/kg
			11/4/2005	Cadmium	**Below MDL**	1	mg/kg
			11/4/2005	Chromium	**15**	2	mg/kg
			11/4/2005	Lead	**58**	3	mg/kg
			11/4/2005	Selenium	**Below MDL**	2	mg/kg
			11/4/2005	Silver	**7**	1	mg/kg
			11/18/2005	Sulfate - Leachable	**619**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**7800**	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 11/4/2005

Quality Assurance Satement for Samples: **an18943-an18953**
an18143-an18146

Original: an18143 **Spike Sample:** an19008 **Blank Spike:** an19010

Duplicate: an19007 **Blank Sample:** an19009 **Reference Sample:** an19011 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	170	172	-1.17	100	273	**103**	Below MDL	96	**96**	114	111	**103**
Cadmium	0.5	6	6	**	100	104	**104**	Below MDL	98	**98**	110	110	**100**
Lead	1	5010	4820	*	100	5010	*	Below MDL	99	**99**	164	158	**104**
Selenium	2	below MDL	below MDL	**	100	85	**81**	Below MDL	87	**87**	82	94.4	**87**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Submission Date: 11/9/2005

Metals Analysis: SWA846 Methods 60100B and 7471

QC Reference Sample: AN19389

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN19374	EPX159 SE	11/7/2005	11/10/2005	Arsenic	99	2	mg/kg
			11/10/2005	Lead	67	2	mg/kg
AN19375	EPX159 SW	11/7/2005	11/10/2005	Arsenic	27	2	mg/kg
			11/10/2005	Lead	86	2	mg/kg
AN19376	EPX159 NE	11/7/2005	11/10/2005	Arsenic	35	2	mg/kg
			11/10/2005	Lead	71	2	mg/kg
AN19377	EPX159 NW	11/7/2005	11/10/2005	Arsenic	21	2	mg/kg
			11/10/2005	Lead	44	2	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN12239-AN12253**

Original: AN19389 **Spike Sample:** AN19449 **Blank Spike:** AN19451

Duplicate: AN19448 **Blank Sample:** AN19450 **Reference Sample:** AN19452 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	232	226	2.62	100	318	**96**	Below MDL	97	**97**	115	111	**104**
Barium	2	50	42	17.39	100	142	**84**	Below MDL	97	**97**	204	195	**105**
Cadmium	0.5	3	3	**	100	94	**94**	Below MDL	96	**96**	110	110	**100**
Chromium	1	238	232	2.55	100	311	**73**	Below MDL	99	**99**	164	154	**106**
Lead	1	49	46	6.32	100	141	**99**	Below MDL	98	**98**	163	158	**103**
Selenium	2	Below MDL	Below MDL	**	100	50	**50**	Below MDL	91	**91**	85	94.4	**90**
Copper	1	4490	4580	-1.98	100	5970	*	Below MDL	106	**106**	121	148	**82**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/18/2005

QC Reference Sample: **AN19901**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN19875	EPX-162A	11/17/2005	11/21/2005	pH Paste	**4.03**		
			11/21/2005	Arsenic	**24**	2	mg/kg
			11/21/2005	Barium	**27**	2	mg/kg
			11/21/2005	Cadmium	**Below MDL**	1	mg/kg
			11/21/2005	Chromium	**25**	2	mg/kg
			11/21/2005	Copper	**86**	2.0	mg/kg
			11/21/2005	Lead	**49**	2	mg/kg
			11/23/2005	Mercury	**0.03**	0.10	mg/kg
			11/21/2005	Selenium	**Below MDL**	2	mg/kg
			11/21/2005	Silver	**16**	1	mg/kg
			11/30/2005	Sulfate - Leachable	**1340**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**10800**	500	mg/kg
			11/21/2005	Soil Paste Conductivity	**1840**		umhos/cm
AN19876	EPX-168	11/17/2005	11/21/2005	pH Paste	**4.84**		
			11/21/2005	Arsenic	**18**	2	mg/kg
			11/21/2005	Barium	**28**	2	mg/kg
			11/21/2005	Cadmium	**Below MDL**	1	mg/kg
			11/21/2005	Chromium	**17**	2	mg/kg
			11/21/2005	Copper	**76**	2.0	mg/kg
			11/21/2005	Lead	**45**	2	mg/kg
			11/23/2005	Mercury	**0.01**	0.10	mg/kg
			11/21/2005	Selenium	**Below MDL**	2	mg/kg
			11/21/2005	Silver	**8**	1	mg/kg
			11/30/2005	Sulfate - Leachable	**1980**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**9300**	500	mg/kg
			11/21/2005	Soil Paste Conductivity	**2400**		umhos/cm
AN19877	EPX-169	11/17/2005	11/21/2005	pH Paste	**3.54**		
			11/21/2005	Arsenic	**11**	2	mg/kg
			11/21/2005	Barium	**31**	2	mg/kg
			11/21/2005	Cadmium	**Below MDL**	1	mg/kg
			11/21/2005	Chromium	**15**	2	mg/kg
			11/21/2005	Copper	**87**	2.0	mg/kg
			11/21/2005	Lead	**48**	2	mg/kg
			11/23/2005	Mercury	**0.02**	0.10	mg/kg
			11/21/2005	Selenium	**Below MDL**	2	mg/kg
			11/21/2005	Silver	**1**	1	mg/kg
			11/30/2005	Sulfate - Leachable	**1940**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**9300**	500	mg/kg
			11/21/2005	Soil Paste Conductivity	**2310**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN19878	EPX-170	11/17/2005	11/21/2005	pH Paste	4.29		
			11/21/2005	Arsenic	29	2	mg/kg
			11/21/2005	Barium	52	2	mg/kg
			11/21/2005	Cadmium	Below MDL	1	mg/kg
			11/21/2005	Chromium	23	2	mg/kg
			11/21/2005	Copper	88	2.0	mg/kg
			11/21/2005	Lead	61	2	mg/kg
			11/23/2005	Mercury	0.03	0.10	mg/kg
			11/21/2005	Selenium	Below MDL	2	mg/kg
			11/21/2005	Silver	Below MDL	1	mg/kg
			11/30/2005	Sulfate - Leachable	1840	5	mg/Kg
			11/29/2005	Sulfate in Soils	6600	500	mg/kg
			11/21/2005	Soil Paste Conductivity	2270		umhos/cm
AN19879	EPX-171	11/17/2005	11/21/2005	pH Paste	4.29		
			11/21/2005	Arsenic	22	2	mg/kg
			11/21/2005	Barium	50	2	mg/kg
			11/21/2005	Cadmium	Below MDL	1	mg/kg
			11/21/2005	Chromium	12	2	mg/kg
			11/21/2005	Copper	102	2.0	mg/kg
			11/21/2005	Lead	57	2	mg/kg
			11/23/2005	Mercury	0.05	0.10	mg/kg
			11/21/2005	Selenium	Below MDL	2	mg/kg
			11/21/2005	Silver	Below MDL	1	mg/kg
			11/30/2005	Sulfate - Leachable	1770	5	mg/Kg
			11/29/2005	Sulfate in Soils	10200	500	mg/kg
			11/21/2005	Soil Paste Conductivity	2160		umhos/cm
AN19880	EPX-172	11/17/2005	11/21/2005	pH Paste	4.55		
			11/21/2005	Arsenic	26	2	mg/kg
			11/21/2005	Barium	68	2	mg/kg
			11/21/2005	Cadmium	Below MDL	1	mg/kg
			11/21/2005	Chromium	26	2	mg/kg
			11/21/2005	Copper	136	2.0	mg/kg
			11/21/2005	Lead	60	2	mg/kg
			11/23/2005	Mercury	0.01	0.10	mg/kg
			11/21/2005	Selenium	Below MDL	2	mg/kg
			11/21/2005	Silver	Below MDL	1	mg/kg
			11/30/2005	Sulfate - Leachable	1890	5	mg/Kg
			11/29/2005	Sulfate in Soils	13500	500	mg/kg
			11/21/2005	Soil Paste Conductivity	2300		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 11/21/2005

Quality Assurance Satement for Samples: **an19875-an19886**
an19900-an19901

Original: an19901 **Spike Sample:** an19903 **Blank Spike:** an19905

Duplicate: an19902 **Blank Sample:** an19904 **Reference Sample:** an19906 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	2	3	**	100	104	**104**	Below MDL	98	**98**	115	102	**113**
Arsenic	2	56	44	24.00	100	148	**92**	Below MDL	97	**97**	117	111	**105**
Barium	2	178	210	-16.49	100	286	**108**	Below MDL	101	**101**	207	195	**106**
Cadmium	0.5	6	6	0.00	100	108	**108**	Below MDL	99	**99**	112	110	**102**
Chromium	1	38	45	-16.87	100	143	**105**	Below MDL	100	**100**	167	154	**108**
Mercury	0.01	0.07	0.07	0.00	2	2	**97**	Below MDL	2	**100**	9.88	16.9	**58**
Lead	1	1170	823	34.82	100	1510	*	Below MDL	98	**98**	161	158	**102**
Selenium	2	below MDL	below MDL	**	100	72	**72**	Below MDL	91	**91**	85	94.4	**90**
Copper	1	17600	12000	37.84	100	9070	*	Below MDL	107	**107**	121	148	**82**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Submission Date: 11/23/2005

Metals Analysis: *SWA846 Methods 60100B and 7471*

QC Reference Sample: **AN19405**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN20045	EPX-159B	11/21/2005	11/23/2005	pH Paste	**3.06**		
			11/28/2005	Arsenic	**39**	2	mg/kg
			11/28/2005	Barium	**21**	2	mg/kg
			11/28/2005	Cadmium	**Below MDL**	1	mg/kg
			11/28/2005	Chromium	**14**	2	mg/kg
			11/28/2005	Lead	**53**	2	mg/kg
			11/28/2005	Selenium	**Below MDL**	2	mg/kg
			11/28/2005	Silver	**Below MDL**	1	mg/kg
			1/25/2006	Sulfate - Leachable	**2140**	5	mg/Kg
			11/30/2005	Sulfate in Soils	**12000**	500	mg/kg
			11/23/2005	Soil Paste Conductivity	**2550**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN19390-AN19405**
AN20045-AN20048

Original: AN19405 **Spike Sample:** AN19407 **Blank Spike:** AN19409

Duplicate: AN19406 **Blank Sample:** AN19408 **Reference Sample:** AN19410 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	2550	2480	2.78	100	2520	*	Below MDL	98	**98**	117	111	**105**
Barium	2	2100	2120	-0.95	100	2070	*	Below MDL	100	**100**	206	195	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	92	**92**	Below MDL	98	**98**	110	110	**100**
Chromium	1	12	12	0.00	100	112	**100**	Below MDL	100	**100**	166	154	**108**
Mercury	0.01	0.67	0.8	-17.69	2	1.4	**37**	Below MDL	2	**100**	8.8	16.9	**52**
Lead	1	9	9	0.00	100	100	**91**	Below MDL	99	**99**	162	158	**103**
Selenium	2	3	4	**	100	92	**89**	Below MDL	91	**91**	86	94.4	**91**
Copper	1	9.4	9.6	-2.11	100	107	**98**	Below MDL	103	**103**	119	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

3325 South 9200 West
Magna, UT 84044-8001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 12/28/2005

QC Reference Sample: **AN21766**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN21762	EPX-173	12/22/2005	12/28/2005	pH Paste	**3.98**		
			1/5/2006	Arsenic	**16**	2	mg/kg
			1/5/2006	Barium	**48**	2	mg/kg
			1/5/2006	Cadmium	**Below MDL**	1	mg/kg
			1/5/2006	Chromium	**11**	2	mg/kg
			1/5/2006	Copper	**114**	2.0	mg/kg
			1/5/2006	Lead	**83**	2	mg/kg
			1/5/2006	Selenium	**12**	2	mg/kg
			12/30/2005	Sulfate - Leachable	**1760**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**15000**	500	mg/kg
			12/28/2005	Soil Paste Conductivity	**2360**		umhos/cm
AN21763	EPX-174	12/22/2005	12/28/2005	pH Paste	**6.18**		
			1/5/2006	Arsenic	**17**	2	mg/kg
			1/5/2006	Barium	**49**	2	mg/kg
			1/5/2006	Cadmium	**Below MDL**	1	mg/kg
			1/5/2006	Chromium	**15**	2	mg/kg
			1/5/2006	Copper	**142**	2.0	mg/kg
			1/5/2006	Lead	**79**	2	mg/kg
			1/5/2006	Selenium	**10**	2	mg/kg
			12/30/2005	Sulfate - Leachable	**1860**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**6000**	500	mg/kg
			12/28/2005	Soil Paste Conductivity	**2360**		umhos/cm
AN21764	EPX-175	12/22/2005	12/28/2005	pH Paste	**5.07**		
			1/5/2006	Arsenic	**26**	2	mg/kg
			1/5/2006	Barium	**56**	2	mg/kg
			1/5/2006	Cadmium	**Below MDL**	1	mg/kg
			1/5/2006	Chromium	**28**	2	mg/kg
			1/5/2006	Copper	**114**	2.0	mg/kg
			1/5/2006	Lead	**92**	2	mg/kg
			1/5/2006	Selenium	**10**	2	mg/kg
			12/30/2005	Sulfate - Leachable	**2100**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**13200**	500	mg/kg
			12/28/2005	Soil Paste Conductivity	**2620**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN21765	EPX-176	12/22/2005	12/28/2005	pH Paste	4.47		
			1/5/2006	Arsenic	39	2	mg/kg
			1/5/2006	Barium	43	2	mg/kg
			1/5/2006	Cadmium	Below MDL	1	mg/kg
			1/5/2006	Chromium	20	2	mg/kg
			1/5/2006	Copper	91	2.0	mg/kg
			1/5/2006	Lead	49	2	mg/kg
			1/5/2006	Selenium	9	2	mg/kg
			12/30/2005	Sulfate - Leachable	2220	5	mg/Kg
			2/27/2006	Sulfate in Soils	900	500	mg/kg
			12/28/2005	Soil Paste Conductivity	2590		umhos/cm
AN21766	EPX-177	12/22/2005	12/28/2005	pH Paste	3.75		
			1/5/2006	Arsenic	24	2	mg/kg
			1/5/2006	Barium	88	2	mg/kg
			1/5/2006	Cadmium	Below MDL	1	mg/kg
			1/5/2006	Chromium	41	2	mg/kg
			1/5/2006	Copper	146	2.0	mg/kg
			1/5/2006	Lead	111	2	mg/kg
			1/5/2006	Selenium	7	2	mg/kg
			12/30/2005	Sulfate - Leachable	1870	5	mg/Kg
			2/27/2006	Sulfate in Soils	15900	500	mg/kg
			12/28/2005	Soil Paste Conductivity	2440		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/29/2005

Quality Assurance Satement for Samples: **an20671**
an21762-an21766

Original: an21766 **Spike Sample:** an21856 **Blank Spike:** an21858

Duplicate: an21855 **Blank Sample:** an21857 **Reference Sample:** an21859 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	24	30	-22.22	100	121	**97**	Below MDL	98	**98**	113	111	**102**
Barium	2	88	97	-9.73	100	194	**106**	Below MDL	101	**101**	197	195	**101**
Cadmium	0.5	below MDL	below MDL	**	100	96	**96**	Below MDL	99	**99**	109	110	**99**
Chromium	1	41	39	5.00	100	140	**99**	Below MDL	100	**100**	160	154	**104**
Lead	1	111	144	-25.88	100	224	**113**	Below MDL	99	**99**	159	158	**101**
Selenium	2	7	5	**	100	94	**87**	Below MDL	94	**94**	91	94.4	**96**
Copper	1	146	143	2.08	100	252	**106**	Below MDL	110	**110**	120	148	**81**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 1/9/2006

QC Reference Sample: **AO00305**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO00301	EPX-178	1/6/2006	1/9/2006	pH Paste	**7.40**		
			1/10/2006	Arsenic	**9**	2	mg/kg
			1/10/2006	Barium	**25**	2	mg/kg
			1/10/2006	Cadmium	**Below MDL**	1	mg/kg
			1/10/2006	Chromium	**6**	2	mg/kg
			1/10/2006	Copper	**124**	2.0	mg/kg
			1/10/2006	Lead	**53**	2	mg/kg
			1/10/2006	Selenium	**Below MDL**	2	mg/kg
			1/10/2006	Silver	**4**	1	mg/kg
			1/25/2006	Sulfate - Leachable	**1880**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**<500**	500	mg/kg
			1/9/2006	Soil Paste Conductivity	**2320**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 1/9/2006

Quality Assurance Satement for Samples: **ao00289**
ao00301-ao00305

Original: ao00305 **Spike Sample:** ao00307 **Blank Spike:** ao00309

Duplicate: ao00306 **Blank Sample:** ao00308 **Reference Sample:** ao00310 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	4	4	**	100	96	**92**	Below MDL	93	**93**	115	111	**104**
Barium	2	62	56	10.17	100	152	**90**	Below MDL	97	**97**	195	195	**100**
Cadmium	0.5	below MDL	below MDL	**	100	90	**96**	Below MDL	94	**94**	111	110	**101**
Chromium	1	12	11	8.70	100	106	**94**	Below MDL	97	**97**	160	154	**104**
Lead	1	42	37	12.66	100	131	**89**	Below MDL	94	**94**	163	158	**103**
Selenium	2	below MDL	below MDL	**	100	82	**82**	Below MDL	85	**85**	89	94.4	**94**
Copper	1	140	128	8.96	100	230	**90**	Below MDL	102	**102**	115	148	**78**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 1/25/2006

QC Reference Sample: AO01255

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO01243	EPX-179	1/24/2006	1/27/2006	pH Paste	4.78		
			1/26/2006	Arsenic	15	2	mg/kg
			1/26/2006	Barium	23	2	mg/kg
			1/26/2006	Cadmium	Below MDL	1	mg/kg
			1/26/2006	Chromium	14	2	mg/kg
			1/26/2006	Copper	74	2.0	mg/kg
			1/26/2006	Lead	28	2	mg/kg
			1/26/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	2220	5	mg/Kg
			2/27/2006	Sulfate in Soils	3900	500	mg/kg
			1/27/2006	Soil Paste Conductivity	2330		umhos/cm
AO01244	EPX-180	1/24/2006	1/27/2006	pH Paste	3.46		
			1/26/2006	Arsenic	134	2	mg/kg
			1/26/2006	Barium	103	2	mg/kg
			1/26/2006	Cadmium	1	1	mg/kg
			1/26/2006	Chromium	38	2	mg/kg
			1/26/2006	Copper	468	2.0	mg/kg
			1/26/2006	Lead	273	2	mg/kg
			1/26/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	3120	5	mg/Kg
			2/27/2006	Sulfate in Soils	13800	500	mg/kg
			1/27/2006	Soil Paste Conductivity	2730		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 1/25/2006

Quality Assurance Satement for Samples: **ao00333**
ao00435
ao01243-a001246
ao01254-ao01255

Original: ao01255 **Spike Sample:** ao01259 **Blank Spike:** ao01261

Duplicate: ao01258 **Blank Sample:** ao01260 **Reference Sample:** ao01262 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	29	28	3.51	100	124	**95**	Below MDL	95	**95**	121	111	**109**
Barium	2	33	34	-2.99	100	133	**100**	Below MDL	97	**97**	206	195	**106**
Cadmium	0.5	below MDL	below MDL	**	100	96	**96**	Below MDL	95	**95**	119	110	**108**
Chromium	1	106	106	0.00	100	210	**104**	Below MDL	97	**97**	168	154	**109**
Lead	1	50	48	4.08	100	149	**99**	Below MDL	96	**96**	171	158	**108**
Selenium	2	below MDL	below MDL	**	100	84	**82**	Below MDL	85	**85**	93	94.4	**99**
Copper	1	81	80	1.24	100	186	**105**	Below MDL	99	**99**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 26-May-06

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 2/6/2006

QC Reference Sample: **AO02838**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO02838	EPX-180A	2/3/2006	2/13/2006	pH Paste	**4.15**		
			2/8/2006	Arsenic	**22**	2	mg/kg
			2/8/2006	Barium	**32**	2	mg/kg
			2/8/2006	Cadmium	**Below MDL**	1	mg/kg
			2/8/2006	Chromium	**15**	2	mg/kg
			2/8/2006	Copper	**85**	2.0	mg/kg
			2/8/2006	Lead	**48**	2	mg/kg
			2/9/2006	Mercury	**0.09**	0.10	mg/kg
			2/8/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**1140**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**1800**	500	mg/kg
			2/13/2006	Soil Paste Conductivity	**2590**		umhos/cm
AO02839	EPX-181	2/3/2006	2/13/2006	pH Paste	**5.85**		
			2/8/2006	Arsenic	**14**	2	mg/kg
			2/8/2006	Barium	**49**	2	mg/kg
			2/8/2006	Cadmium	**Below MDL**	1	mg/kg
			2/8/2006	Chromium	**23**	2	mg/kg
			2/8/2006	Copper	**122**	2.0	mg/kg
			2/8/2006	Lead	**53**	2	mg/kg
			2/9/2006	Mercury	**0.02**	0.10	mg/kg
			2/8/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**2230**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**4200**	500	mg/kg
			2/13/2006	Soil Paste Conductivity	**2400**		umhos/cm
AO02840	EPX-182	2/3/2006	2/13/2006	pH Paste	**5.98**		
			2/8/2006	Arsenic	**32**	2	mg/kg
			2/8/2006	Barium	**71**	2	mg/kg
			2/8/2006	Cadmium	**Below MDL**	1	mg/kg
			2/8/2006	Chromium	**25**	2	mg/kg
			2/8/2006	Copper	**289**	2.0	mg/kg
			2/8/2006	Lead	**136**	2	mg/kg
			2/9/2006	Mercury	**0.02**	0.10	mg/kg
			2/8/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**2400**	5	mg/Kg
			2/27/2006	Sulfate in Soils	**8700**	500	mg/kg
			2/13/2006	Soil Paste Conductivity	**2620**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
O02841	EPX-183	2/3/2006	2/13/2006	pH Paste	5.06		
			2/8/2006	Arsenic	12	2	mg/kg
			2/8/2006	Barium	34	2	mg/kg
			2/8/2006	Cadmium	Below MDL	1	mg/kg
			2/8/2006	Chromium	13	2	mg/kg
			2/8/2006	Copper	100	2.0	mg/kg
			2/8/2006	Lead	48	2	mg/kg
			2/9/2006	Mercury	0.03	0.10	mg/kg
			2/8/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	1960	5	mg/Kg
			2/27/2006	Sulfate In Soils	6600	500	mg/kg
			2/13/2006	Soil Paste Conductivity	1920		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 2/8/2006

Quality Assurance Satement for Samples: **ao02864**
ao02865
ao02838-ao02841

Original: ao02838 **Spike Sample:** ao02918 **Blank Spike:** ao02920

Duplicate: ao02917 **Blank Sample:** ao02919 **Reference Sample:** ao02921 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	22	24	-8.70	100	119	**97**	Below MDL	95	**95**	113	111	**102**
Barium	2	32	48	-40.00	100	145	**113**	Below MDL	98	**98**	199	195	**102**
Cadmium	0.5	below MDL	below MDL	**	100	93	**96**	Below MDL	95	**95**	107	110	**97**
Chromium	1	15	18	-18.18	100	120	**105**	Below MDL	99	**99**	160	154	**104**
Mercury	0.01	0.09	0.02	**	2	2	**96**	Below MDL	2	**100**	9.1	16.9	**54**
Lead	1	48	63	-27.03	100	145	**97**	Below MDL	96	**96**	157	158	**99**
Selenium	2	below MDL	below MDL	**	100	84	**82**	Below MDL	84	**84**	84	94.4	**89**
Copper	1	85	101	-17.20	100	191	**106**	Below MDL	114	**114**	115	148	**78**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 2/14/2006

QC Reference Sample: **AO03334**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO03330	EPX184	2/13/2006	2/17/2006	pH Paste	**4.06**		
			2/16/2006	Arsenic	**29**	2	mg/kg
			2/16/2006	Copper	**306**	2.0	mg/kg
			2/16/2006	Lead	**115**	3	mg/kg
			4/11/2006	Sulfate - Leachable	**2400**	5	mg/Kg
			3/31/2006	Sulfate in Soils	**4800**	500	mg/kg
			2/17/2006	Soil Paste Conductivity	**2800**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 2/15/2006

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: AO03334

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO03400	EPX-185	2/14/2006	2/17/2006	pH Paste	**4.26**		
			2/16/2006	Arsenic	**53**	2	mg/kg
			2/16/2006	Barium	**88**	2	mg/kg
			2/16/2006	Cadmium	**Below MDL**	1	mg/kg
			2/16/2006	Chromium	**26**	2	mg/kg
			2/16/2006	Copper	**487**	2.0	mg/kg
			2/16/2006	Lead	**167**	2	mg/kg
			2/24/2006	Mercury	**<0.2**	0.10	mg/kg
			2/16/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**1840**	5	mg/Kg
			3/31/2006	Sulfate in Soils	**3000**	500	mg/kg
			2/17/2006	Soil Paste Conductivity	**2200**		umhos/cm
AO03401	EPX-186	2/14/2006	2/17/2006	pH Paste	**5.84**		
			2/16/2006	Arsenic	**79**	2	mg/kg
			2/16/2006	Barium	**108**	2	mg/kg
			2/16/2006	Cadmium	**Below MDL**	1	mg/kg
			2/16/2006	Chromium	**32**	2	mg/kg
			2/16/2006	Copper	**250**	2.0	mg/kg
			2/16/2006	Lead	**215**	2	mg/kg
			2/24/2006	Mercury	**<0.2**	0.10	mg/kg
			2/16/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**3130**	5	mg/Kg
			3/31/2006	Sulfate in Soils	**9600**	500	mg/kg
			2/17/2006	Soil Paste Conductivity	**2460**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
K.E.L. Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **ao03330-ao03335**
ao03400-ao03401

Original: ao03334 **Spike Sample:** ao03351 **Blank Spike:** ao03353

Duplicate: ao03350 **Blank Sample:** ao03352 **Reference Sample:** ao03354 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	8	9	**	100	111	**103**	Below MDL	103	**103**	118	111	**106**
Barium	2	134	133	0.75	100	245	**111**	Below MDL	106	**106**	212	195	**109**
Cadmium	0.5	Below MDL	Below MDL	**	100	101	**101**	Below MDL	103	**103**	113	110	**103**
Chromium	1	22	21	4.65	100	128	**106**	Below MDL	106	**106**	167	154	**108**
Lead	1	51	51	0.00	100	156	**105**	Below MDL	105	**105**	172	158	**109**
Selenium	2	Below MDL	Below MDL	**	100	89	**82**	Below MDL	90	**90**	87	94.4	**92**
Copper	1	68	66	2.99	100	178	**110**	Below MDL	110	**110**	122	148	**82**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 3/27/2006

QC Reference Sample: **AO05692**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO05680	EPX-185A	3/23/2006	3/30/2006	pH Paste	**3.68**		
			3/27/2006	Arsenic	**29**	2	mg/kg
			3/27/2006	Barium	**121**	2	mg/kg
			3/27/2006	Cadmium	**Below MDL**	1	mg/kg
			3/27/2006	Chromium	**19**	2	mg/kg
			3/27/2006	Copper	**369**	2.0	mg/kg
			3/27/2006	Lead	**215**	2	mg/kg
			3/27/2006	Selenium	**3**	2	mg/kg
			3/30/2006	Soil Paste Conductivity	**990**		umhos/cm

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/31/2006

Quality Assurance Satement for Samples: **ao005679-ao05682**

Original: ao05692 **Spike Sample:** ao05694 **Blank Spike:** ao05696

Duplicate: ao05693 **Blank Sample:** ao05695 **Reference Sample:** ao05697 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	21	14	40.00	100	115	**94**	Below MDL	100	**100**	117	111	**105**
Barium	2	75	114	-41.27	100	208	**133**	Below MDL	98	**98**	199	195	**102**
Cadmium	0.5	below MDL	below MDL	**	100	91	**96**	Below MDL	94	**94**	108	110	**98**
Chromium	1	21	22	-4.65	100	121	**100**	Below MDL	98	**98**	161	154	**105**
Mercury	0.01	**pending**	**pending**	**	2	**pending**		Below MDL	**pending**	**#VALUE!**		16.9	**0**
Lead	1	170	146	15.19	100	234	**64**	Below MDL	98	**98**	153	158	**97**
Selenium	2	9	below MDL	**	100	92	**83**	Below MDL	96	**96**	93	94.4	**99**
Copper	1	317	311	1.91	100	410	**93**	Below MDL	108	**108**	121	148	**82**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 2/27/2006

QC Reference Sample: AO03998

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO03995	EPX-186A	2/23/2006	3/30/2006	pH Paste	3.80		
			2/27/2006	Arsenic	26	2	mg/kg
			2/27/2006	Barium	104	2	mg/kg
			2/27/2006	Cadmium	Below MDL	1	mg/kg
			2/27/2006	Chromium	29	2	mg/kg
			2/27/2006	Copper	260	2.0	mg/kg
			2/27/2006	Lead	212	2	mg/kg
			3/2/2006	Mercury	<0.1	0.10	mg/kg
			2/27/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	2820	5	mg/Kg
			3/31/2006	Sulfate in Soils	10200	500	mg/kg
			3/30/2006	Soil Paste Conductivity	2920		umhos/cm
AO03996	EPX-187	2/23/2006	3/10/2006	pH Paste	3.92		
			2/27/2006	Arsenic	40	2	mg/kg
			2/27/2006	Barium	99	2	mg/kg
			2/27/2006	Cadmium	Below MDL	1	mg/kg
			2/27/2006	Chromium	32	2	mg/kg
			2/27/2006	Copper	464	2.0	mg/kg
			2/27/2006	Lead	243	2	mg/kg
			3/2/2006	Mercury	<0.1	0.10	mg/kg
			2/27/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	2050	5	mg/Kg
			3/31/2006	Sulfate in Soils	11100	500	mg/kg
			3/3/2006	Soil Paste Conductivity	3900		umhos/cm
AO03997	EPX-188	2/23/2006	3/10/2006	pH Paste	4.76		
			2/27/2006	Arsenic	47	2	mg/kg
			2/27/2006	Barium	96	2	mg/kg
			2/27/2006	Cadmium	Below MDL	1	mg/kg
			2/27/2006	Chromium	19	2	mg/kg
			2/27/2006	Copper	410	2.0	mg/kg
			2/27/2006	Lead	376	2	mg/kg
			3/2/2006	Mercury	<0.1	0.10	mg/kg
			2/27/2006	Selenium	Below MDL	2	mg/kg
			4/11/2006	Sulfate - Leachable	3690	5	mg/Kg
			3/31/2006	Sulfate in Soils	10500	500	mg/kg
			3/3/2006	Soil Paste Conductivity	3730		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO03998	EPX-189	2/23/2006	3/10/2006	pH Paste	**6.18**		
			2/27/2006	Arsenic	**43**	2	mg/kg
			2/27/2006	Barium	**103**	2	mg/kg
			2/27/2006	Cadmium	**Below MDL**	1	mg/kg
			2/27/2006	Chromium	**28**	2	mg/kg
			2/27/2006	Copper	**295**	2.0	mg/kg
			2/27/2006	Lead	**217**	2	mg/kg
			3/2/2006	Mercury	**<0.1**	0.10	mg/kg
			2/27/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**4120**	5	mg/Kg
			3/31/2006	Sulfate in Soils	**12000**	500	mg/kg
			3/3/2006	Soil Paste Conductivity	**3690**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
REL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 2/27/2006

Quality Assurance Satement for Samples: **ao03883-ao03884**
ao03995-ao03998

Original: ao03998 **Spike Sample:** ao04000 **Blank Spike:** ao04002

Duplicate: ao03999 **Blank Sample:** ao04001 **Reference Sample:** ao04003 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	43	56	-26.26	100	148	**105**	Below MDL	96	**96**	115	111	**104**
Barium	2	103	98	4.98	100	205	**102**	Below MDL	100	**100**	205	195	**105**
Cadmium	0.5	below MDL	1	**	100	96	**96**	Below MDL	96	**96**	110	110	**100**
Chromium	1	28	25	11.32	100	128	**100**	Below MDL	100	**100**	161	154	**105**
Mercury	0.01	<0.1	<0.1	**	2	2.5	**125**	Below MDL	2.1	**105**	8.9	16.9	**53**
Lead	1	217	239	-9.65	100	326	**109**	Below MDL	98	**98**	163	158	**103**
Selenium	2	below MDL	below MDL	**	100	81	**81**	Below MDL	85	**85**	85	94.4	**90**
Copper	1	295	363	-20.67	100	443	**148**	Below MDL	103	**103**	117	148	**79**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

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Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 3/17/2006

QC Reference Sample: **AO05386**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO05384	EPX-190	3/16/2006	3/24/2006	pH Paste	**3.74**		
			3/20/2006	Arsenic	**57**	2	mg/kg
			3/20/2006	Barium	**63**	2	mg/kg
			3/20/2006	Cadmium	**Below MDL**	1	mg/kg
			3/20/2006	Chromium	**33**	2	mg/kg
			3/20/2006	Copper	**240**	2.0	mg/kg
			3/20/2006	Lead	**122**	2	mg/kg
			3/20/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**2150**	5	mg/Kg
			3/31/2006	Sulfate In Soils	**21600**	500	mg/kg
			3/24/2006	Soil Paste Conductivity	**2710**		umhos/cm
AO05385	EPX-191	3/16/2006	3/24/2006	pH Paste	**3.87**		
			3/20/2006	Arsenic	**30**	2	mg/kg
			3/20/2006	Barium	**140**	2	mg/kg
			3/20/2006	Cadmium	**Below MDL**	1	mg/kg
			3/20/2006	Chromium	**25**	2	mg/kg
			3/20/2006	Copper	**435**	2.0	mg/kg
			3/20/2006	Lead	**90**	2	mg/kg
			3/20/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**3480**	5	mg/Kg
			3/31/2006	Sulfate in Soils	**6000**	500	mg/kg
			3/24/2006	Soil Paste Conductivity	**3590**		umhos/cm
AO05386	EPX-192	3/16/2006	3/24/2006	pH Paste	**3.97**		
			3/20/2006	Arsenic	**24**	2	mg/kg
			3/20/2006	Barium	**62**	2	mg/kg
			3/20/2006	Cadmium	**Below MDL**	1	mg/kg
			3/20/2006	Chromium	**21**	2	mg/kg
			3/20/2006	Copper	**172**	2.0	mg/kg
			3/20/2006	Lead	**78**	2	mg/kg
			3/20/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**2860**	5	mg/Kg
			3/31/2006	Sulfate In Soils	**5400**	500	mg/kg
			3/24/2006	Soil Paste Conductivity	**3640**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/31/2006

Quality Assurance Satement for Samples: **ao05384-ao05386**

Original: AO05386 **Spike Sample:** AO05394 **Blank Spike:** AO05396

Duplicate: AO05393 **Blank Sample:** AO05395 **Reference Sample:** AO05397 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	24	31	-25.45	100	136	**112**	Below MDL	105	**105**	122	111	**110**
Barium	2	62	82	-27.78	100	184	**122**	Below MDL	104	**104**	211	195	**108**
Cadmium	0.5	below MDL	below MDL	**	100	104	**96**	Below MDL	99	**99**	113	110	**103**
Chromium	1	21	30	-35.29	100	134	**113**	Below MDL	103	**103**	169	154	**110**
Lead	1	78	120	-42.42	100	205	**127**	Below MDL	102	**102**	161	158	**102**
Selenium	2	below MDL	below MDL	**	100	100	**100**	Below MDL	94	**94**	96	94.4	**102**
Copper	1	172	339	-65.36	100	360	**188**	Below MDL	111	**111**	126	148	**85**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 26-May-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 4/7/2006

QC Reference Sample: **AO06631**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO06491	EPX-193	4/3/2006	4/12/2006	pH Paste	7.40		
			4/12/2006	Arsenic	19	2	mg/kg
			4/12/2006	Barium	54	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	14	2	mg/kg
			4/12/2006	Lead	64	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	3	1	mg/kg
			4/11/2006	Sulfate - Leachable	1850	5	mg/Kg
			4/27/2006	Sulfate in Soils	4200	500	mg/kg
			4/12/2006	Soil Paste Conductivity	2410		umhos/cm
AO06492	EPX-194	4/3/2006	4/12/2006	pH Paste	6.81		
			4/12/2006	Arsenic	9	2	mg/kg
			4/12/2006	Barium	42	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	11	2	mg/kg
			4/12/2006	Lead	39	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	2	1	mg/kg
			4/11/2006	Sulfate - Leachable	1680	5	mg/Kg
			4/27/2006	Sulfate in Soils	4500	500	mg/kg
			4/12/2006	Soil Paste Conductivity	2270		umhos/cm
AO06493	EPX-195	4/3/2006	4/12/2006	pH Paste	6.99		
			4/12/2006	Arsenic	21	2	mg/kg
			4/12/2006	Barium	43	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	13	2	mg/kg
			4/12/2006	Lead	57	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	2	1	mg/kg
			4/11/2006	Sulfate - Leachable	1940	5	mg/Kg
			4/27/2006	Sulfate in Soils	4800	500	mg/kg
			4/12/2006	Soil Paste Conductivity	2480		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO06494	EPX-196	4/3/2006	4/12/2006	pH Paste	7.28		
			4/12/2006	Arsenic	12	2	mg/kg
			4/12/2006	Barium	66	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	18	2	mg/kg
			4/12/2006	Lead	55	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	1	1	mg/kg
			4/11/2006	Sulfate - Leachable	2490	5	mg/Kg
			4/27/2006	Sulfate in Soils	3300	500	mg/kg
			4/12/2006	Soil Paste Conductivity	3120		umhos/cm
AO06495	EPX-197	4/3/2006	4/12/2006	pH Paste	5.99		
			4/12/2006	Arsenic	10	2	mg/kg
			4/12/2006	Barium	98	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	23	2	mg/kg
			4/12/2006	Lead	73	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	Below MDL	1	mg/kg
			4/11/2006	Sulfate - Leachable	3130	5	mg/Kg
			4/27/2006	Sulfate in Soils	5100	500	mg/kg
			4/12/2006	Soil Paste Conductivity	3510		umhos/cm
AO06496	EPX-198	3/2/2006	4/12/2006	pH Paste	5.27		
			4/12/2006	Arsenic	8	2	mg/kg
			4/12/2006	Barium	76	2	mg/kg
			4/12/2006	Cadmium	Below MDL	1	mg/kg
			4/12/2006	Chromium	16	2	mg/kg
			4/12/2006	Lead	39	2	mg/kg
			4/12/2006	Selenium	Below MDL	2	mg/kg
			4/12/2006	Silver	Below MDL	1	mg/kg
			4/11/2006	Sulfate - Leachable	2830	5	mg/Kg
			4/27/2006	Sulfate in Soils	3900	500	mg/kg
			4/12/2006	Soil Paste Conductivity	3220		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson, CIH
REL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AO06491-AO06496**
AO06628-AO06631

Original: AO06631 **Spike Sample:** AO06633 **Blank Spike:** AO06635

Duplicate: AO06632 **Blank Sample:** AO06634 **Reference Sample:** AO06636 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	38	39	-2.60	100	136	**98**	Below MDL	93	**93**	240	257	**93**
Barium	2	102	74	31.82	100	171	**69**	Below MDL	96	**96**	453	472	**96**
Cadmium	0.5	Below MDL	Below MDL	**	100	88	**88**	Below MDL	90	**90**	101	117	**86**
Chromium	1	17	16	6.06	100	114	**97**	Below MDL	96	**96**	68	73	**93**
Lead	1	164	177	-7.62	100	277	**113**	Below MDL	91	**91**	154	166	**93**
Selenium	2	Below MDL	Below MDL	**	100	73	**73**	Below MDL	82	**82**	140	173	**81**
Copper	1	420	474	-12.08	100	573	**153**	Below MDL	101	**101**	104	100	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 4/11/2006

QC Reference Sample: **AO06631**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO06630	EPX 190A	4/11/2006	4/12/2006	pH Paste	**3.99**		
			4/12/2006	Arsenic	**20**	2	mg/kg
			4/12/2006	Cadmium	**Below MDL**	1	mg/kg
			4/12/2006	Lead	**70**	3	mg/kg
			4/11/2006	Sulfate - Leachable	**1780**	5	mg/Kg
			4/27/2006	Sulfate in Soils	**9600**	500	mg/kg
			4/12/2006	Soil Paste Conductivity	**2450**		umhos/cm
AO06631	EPX 199	4/11/2006	4/12/2006	pH Paste	**5.26**		
			4/12/2006	Arsenic	**38**	2	mg/kg
			4/12/2006	Barium	**102**	2	mg/kg
			4/12/2006	Cadmium	**Below MDL**	1	mg/kg
			4/12/2006	Chromium	**17**	2	mg/kg
			4/12/2006	Copper	**420**	2.0	mg/kg
			4/12/2006	Lead	**164**	3	mg/kg
			4/12/2006	Selenium	**Below MDL**	2	mg/kg
			4/11/2006	Sulfate - Leachable	**3070**	5	mg/Kg
			4/27/2006	Sulfate in Soils	**6300**	500	mg/kg
			4/12/2006	Soil Paste Conductivity	**3550**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AO06491-AO06496**
AO06628-AO06631

Original: AO06631 **Spike Sample:** AO06633 **Blank Spike:** AO06635

Duplicate: AO06632 **Blank Sample:** AO06634 **Reference Sample:** AO06636 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	38	39	-2.60	100	136	**98**	Below MDL	93	**93**	240	257	**93**
Barium	2	102	74	31.82	100	171	**69**	Below MDL	96	**96**	453	472	**96**
Cadmium	0.5	Below MDL	Below MDL	**	100	88	**88**	Below MDL	90	**90**	101	117	**86**
Chromium	1	17	16	6.06	100	114	**97**	Below MDL	96	**96**	68	73	**93**
Lead	1	164	177	-7.62	100	277	**113**	Below MDL	91	**91**	154	166	**93**
Selenium	2	Below MDL	Below MDL	**	100	73	**73**	Below MDL	82	**82**	140	173	**81**
Copper	1	420	474	-12.08	100	573	**153**	Below MDL	101	**101**	104	100	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 5/5/2006

QC Reference Sample: **AO07883**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO07880	EXP-200	5/3/2006	5/8/2006	pH Paste	**5.33**		
			5/8/2006	Arsenic	**35**	2	mg/kg
			5/8/2006	Cadmium	**Below MDL**	1	mg/kg
			5/8/2006	Lead	**180**	3	mg/kg
			5/19/2006	Sulfate - Leachable	**3260**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**9000**	500	mg/kg
			5/8/2006	Soil Paste Conductivity	**3720**		umhos/cm
AO07881	EXP-201	5/3/2006	5/8/2006	pH Paste	**5.21**		
			5/8/2006	Arsenic	**25**	2	mg/kg
			5/8/2006	Cadmium	**Below MDL**	1	mg/kg
			5/8/2006	Lead	**99**	3	mg/kg
			5/19/2006	Sulfate - Leachable	**3000**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**8100**	500	mg/kg
			5/8/2006	Soil Paste Conductivity	**3590**		umhos/cm
AO07882	EXP-202	5/3/2006	5/8/2006	pH Paste	**5.31**		
			5/8/2006	Arsenic	**32**	2	mg/kg
			5/8/2006	Cadmium	**Below MDL**	1	mg/kg
			5/8/2006	Lead	**172**	3	mg/kg
			5/19/2006	Sulfate - Leachable	**3690**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**9000**	500	mg/kg
			5/8/2006	Soil Paste Conductivity	**4160**		umhos/cm
AO07883	EXP-203	5/3/2006	5/8/2006	pH Paste	**5.01**		
			5/8/2006	Arsenic	**59**	2	mg/kg
			5/8/2006	Barium	**118**	2	mg/kg
			5/8/2006	Cadmium	**Below MDL**	1	mg/kg
			5/8/2006	Chromium	**22**	2	mg/kg
			5/8/2006	Copper	**452**	2.0	mg/kg
			5/8/2006	Lead	**163**	3	mg/kg
			5/8/2006	Selenium	**Below MDL**	2	mg/kg
			5/19/2006	Sulfate - Leachable	**3340**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**81000**	500	mg/kg
			5/8/2006	Soil Paste Conductivity	**3990**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/8/2006

Quality Assurance Satement for Samples: **ao07880-ao07883**
ao07845

Original: ao07883 **Spike Sample:** ao07930 **Blank Spike:** ao07932

Duplicate: ao07929 **Blank Sample:** ao07931 **Reference Sample:** ao07933 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	59	80	-30.22	100	165	**106**	Below MDL	96	**96**	247	257	**96**
Barium	2	118	119	-0.84	100	216	**98**	Below MDL	97	**97**	452	472	**96**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	94	**94**	101	117	**86**
Chromium	1	22	22	0.00	100	119	**97**	Below MDL	97	**97**	72	73	**99**
Lead	1	163	171	-4.79	100	263	**100**	Below MDL	95	**95**	158	166	**95**
Selenium	2	Below MDL	2	**	100	82	**82**	Below MDL	90	**90**	150	173	**87**
Copper	1	452	453	-0.22	100	556	**104**	Below MDL	100	**100**	102	100	**102**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 5/25/2006

QC Reference Sample: **AO09017**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO09014	EPX-203A	5/24/2006	5/26/2006	pH Paste	**5.37**		
			5/26/2006	Arsenic	**33**	2	mg/kg
			5/26/2006	Cadmium	**Below MDL**	1	mg/kg
			5/26/2006	Lead	**127**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**3630**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**6600**	500	mg/kg
			5/26/2006	Soil Paste Conductivity	**4550**		umhos/cm
AO09015	EPX-204	5/24/2006	5/26/2006	pH Paste	**5.18**		
			5/26/2006	Arsenic	**23**	2	mg/kg
			5/26/2006	Cadmium	**Below MDL**	1	mg/kg
			5/26/2006	Lead	**212**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**4180**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**8100**	500	mg/kg
			5/26/2006	Soil Paste Conductivity	**5140**		umhos/cm
AO09016	EPX-205	5/24/2006	5/26/2006	pH Paste	**5.31**		
			5/26/2006	Arsenic	**48**	2	mg/kg
			5/26/2006	Cadmium	**Below MDL**	1	mg/kg
			5/26/2006	Lead	**273**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**4410**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**9900**	500	mg/kg
			5/26/2006	Soil Paste Conductivity	**5120**		umhos/cm
AO09017	EPX-206	5/24/2006	5/26/2006	pH Paste	**6.23**		
			5/26/2006	Arsenic	**48**	2	mg/kg
			5/26/2006	Barium	**85**	2	mg/kg
			5/26/2006	Cadmium	**Below MDL**	1	mg/kg
			5/26/2006	Chromium	**22**	2	mg/kg
			5/26/2006	Copper	**487**	2.0	mg/kg
			5/26/2006	Lead	**210**	3	mg/kg
			5/26/2006	Selenium	**Below MDL**	2	mg/kg
			7/12/2006	Sulfate - Leachable	**6040**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**7800**	500	mg/kg
			5/26/2006	Soil Paste Conductivity	**6220**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **aoao09014-ao09017**

Original: ao09017 **Spike Sample:** ao09040 **Blank Spike:** ao09042

Duplicate: ao09039 **Blank Sample:** ao09041 **Reference Sample:** ao09043 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	48	53	-9.90	100	140	**92**	Below MDL	94	**94**	246	257	**96**
Barium	2	85	96	-12.15	100	189	**104**	Below MDL	98	**98**	465	472	**99**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	93	**93**	106	117	**91**
Chromium	1	22	25	-12.77	100	122	**100**	Below MDL	99	**99**	73	73	**100**
Lead	1	210	206	1.92	100	297	**87**	Below MDL	93	**93**	155	166	**93**
Selenium	2	Below MDL	Below MDL	**	100	91	**91**	Below MDL	82	**82**	140	173	**81**
Copper	1	487	485	0.41	100	559	**72**	4	106	**102**	104	100	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 6/8/2006

QC Reference Sample: **AO09922**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO09924	EPX-207	6/7/2006	9/22/2006	pH Paste	**5.26**		
			6/13/2006	Arsenic	**56**	2	mg/kg
			6/13/2006	Barium	**106**	2	mg/kg
			6/13/2006	Cadmium	**Below MDL**	1	mg/kg
			6/13/2006	Chromium	**27**	2	mg/kg
			6/13/2006	Copper	**639**	2.0	mg/kg
			6/13/2006	Lead	**240**	3	mg/kg
			6/13/2006	Selenium	**Below MDL**	2	mg/kg
			7/12/2006	Sulfate - Leachable	**5240**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**9900**	500	mg/kg
			9/22/2006	Soil Paste Conductivity	**5310**		umhos/cm
AO09925	EPX-208	6/7/2006	9/22/2006	pH Paste	**6.50**		
			6/13/2006	Arsenic	**16**	2	mg/kg
			6/13/2006	Barium	**114**	2	mg/kg
			6/13/2006	Cadmium	**Below MDL**	1	mg/kg
			6/13/2006	Chromium	**26**	2	mg/kg
			6/13/2006	Copper	**427**	2.0	mg/kg
			6/13/2006	Lead	**176**	3	mg/kg
			6/13/2006	Selenium	**Below MDL**	2	mg/kg
			7/12/2006	Sulfate - Leachable	**5000**	5	mg/Kg
			6/13/2006	Sulfate in Soils	**8100**	500	mg/kg
			9/22/2006	Soil Paste Conductivity	**4610**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/12/2006

Quality Assurance Satement for Samples: **AO08698**
AO08701
AO08704
AO09732
AO07142-AO07145
AO09920-AO09931

Original: AO09922 **Spike Sample:** AO09992 **Blank Spike:** AO09994

Duplicate: AO09991 **Blank Sample:** AO09993 **Reference Sample:** AO09995 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	18	18	0.00	100	107	**89**	Below MDL	92	**92**	245	257	**95**
Barium	2	130	123	5.53	100	222	**92**	Below MDL	93	**93**	448	472	**95**
Cadmium	0.5	BELOW MDL	BELOW MDL	**	100	89	**93**	Below MDL	90	**90**	103	117	**88**
Chromium	1	21	19	10.00	100	115	**94**	Below MDL	94	**94**	71	73	**97**
Lead	1	87	91	-4.49	100	177	**90**	Below MDL	91	**91**	154	166	**93**
Selenium	2	BELOW MDL	BELOW MDL	**	100	75	**79**	Below MDL	81	**81**	142	173	**82**
Copper	1	159	228	-35.66	100	294	**135**	Below MDL	127	**127**	152	100	**152**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.
***= possible matrix interference

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ALDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/15/2006

QC Reference Sample: **AO10362**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO10358	EPX-207A	6/14/2006	6/16/2006	pH	**4.87**		
			6/20/2006	Arsenic	**38**	2	mg/kg
			6/20/2006	Cadmium	**Below MDL**	1	mg/kg
			6/20/2006	Lead	**172**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**3920**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**10500**	500	mg/kg
			6/16/2006	Soil Paste Conductivity	**4690**		umhos/cm
AO10359	EPX-209	6/14/2006	6/16/2006	pH	**7.39**		
			6/20/2006	Arsenic	**50**	2	mg/kg
			6/20/2006	Cadmium	**1**	1	mg/kg
			6/20/2006	Lead	**427**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**3500**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**600**	500	mg/kg
			6/16/2006	Soil Paste Conductivity	**4270**		umhos/cm
AO10360	EPX-210	6/14/2006	6/16/2006	pH	**6.84**		
			6/20/2006	Arsenic	**45**	2	mg/kg
			6/20/2006	Cadmium	**Below MDL**	1	mg/kg
			6/20/2006	Lead	**239**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**4790**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**Below CRDL**	500	mg/kg
			6/16/2006	Soil Paste Conductivity	**5080**		umhos/cm
AO10361	EPX-211	6/14/2006	6/16/2006	pH	**5.26**		
			6/20/2006	Arsenic	**21**	2	mg/kg
			6/20/2006	Cadmium	**Below MDL**	1	mg/kg
			6/20/2006	Lead	**154**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**3650**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**Below CRDL**	500	mg/kg
			6/16/2006	Soil Paste Conductivity	**4620**		umhos/cm
AO10362	EPX-212	6/14/2006	6/16/2006	pH	**4.66**		
			6/20/2006	Arsenic	**11**	2	mg/kg
			6/20/2006	Barium	**107**	2	mg/kg
			6/20/2006	Cadmium	**Below MDL**	1	mg/kg
			6/20/2006	Chromium	**24**	2	mg/kg
			6/20/2006	Copper	**620**	2.0	mg/kg
			6/20/2006	Lead	**154**	3	mg/kg
			7/12/2006	Sulfate - Leachable	**3720**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**6300**	500	mg/kg
			6/16/2006	Soil Paste Conductivity	**4150**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 6/26/2006

Quality Assurance Satement for Samples: **AO10311**
AO09483-AO09490
AO09567-AO09572
AO10358-AO10362

Original: AO10362 **Spike Sample:** AO10379 **Blank Spike:** AO10381

Duplicate: AO10378 **Blank Sample:** AO10380 **Reference Sample:** AO10382 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	11	13	-16.67	100	112	**101**	Below MDL	97	**97**	299	257	**116**
Barium	2	107	115	-7.21	100	227	**120**	Below MDL	99	**99**	557	472	**118**
Cadmium	0.5	Below MDL	Below MDL	**	100	93	**93**	Below MDL	95	**95**	129	117	**110**
Chromium	1	24	25	-4.08	100	127	**103**	Below MDL	99	**99**	82	73	**112**
Lead	1	154	166	-7.50	100	257	**103**	Below MDL	96	**96**	190	166	**114**
Copper	1	620	716	-14.37	100	821	**201**	Below MDL	109	**109**	130	100	**130**

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Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 7/24/2006

QC Reference Sample: **AO12874**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12872	EPX-213	7/21/2006	7/25/2006	pH Paste	**4.56**		
			7/26/2006	Arsenic	**67**	2	mg/kg
			7/26/2006	Lead	**178**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3320**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**6300**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4290**		umhos/cm
AO12873	EPX-214	7/21/2006	7/25/2006	pH Paste	**4.18**		
			7/26/2006	Arsenic	**40**	2	mg/kg
			7/26/2006	Lead	**182**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3370**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**5700**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4260**		umhos/cm
AO12874	EPX-215	7/21/2006	7/25/2006	pH Paste	**3.77**		
			7/26/2006	Arsenic	**36**	2	mg/kg
			7/26/2006	Lead	**160**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3310**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**4500**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4350**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/25/2006

Quality Assurance Satement for Samples: **AO12864-AO12874**

Original: AO12874 **Spike Sample:** AO12904 **Blank Spike:** AO12906

Duplicate: AO12903 **Blank Sample:** AO12905 **Reference Sample:** AO12907 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	36	30	18.18	100	136	**100**	Below MDL	103	**103**	272	257	**106**
Lead	1	160	178	-10.65	100	266	**106**	Below MDL	101	**101**	172	166	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 14-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/3/2006

QC Reference Sample: **AO13529**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13527	EPX-216	8/2/2006	8/9/2006	pH Paste	**6.35**		
			8/8/2006	Arsenic	**90**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**100**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**4280**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**11100**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**5010**		umhos/cm
AO13528	EPX-217	8/2/2006	8/9/2006	pH Paste	**5.70**		
			8/8/2006	Arsenic	**30**	2	mg/kg
			8/8/2006	Cadmium	**1**	1	mg/kg
			8/8/2006	Lead	**92**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**5210**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**8700**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**5630**		umhos/cm
AO13529	EPX-218	8/2/2006	8/9/2006	pH Paste	**4.83**		
			8/8/2006	Arsenic	**30**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**145**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3050**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**3900**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**3960**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/8/2006

Quality Assurance Satement for Samples: **AO13523-AO13529**

Original: AO13529 **Spike Sample:** AO13720 **Blank Spike:** AO13722

Duplicate: AO13719 **Blank Sample:** AO13721 **Reference Sample:** AO13723 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	30	30	0.00	100	122	**92**	Below MDL	95	**95**	148	142	**104**
Cadmium	0.5	Below MDL	Below MDL	**	100	93	**93**	Below MDL	94	**94**	64	64.5	**99**
Lead	1	145	142	2.09	100	238	**93**	Below MDL	94	**94**	96	93.6	**103**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/9/2006

QC Reference Sample: **AO14039**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13829	EPX-213A	8/8/2006	8/9/2006	pH Paste	**4.25**		
			8/10/2006	Arsenic	**95**	2	mg/kg
			8/10/2006	Cadmium	**2**	1	mg/kg
			8/10/2006	Lead	**179**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3540**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**7500**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**4480**		umhos/cm
AO13830	EPX-219	8/8/2006	8/9/2006	pH Paste	**7.09**		
			8/10/2006	Arsenic	**48**	2	mg/kg
			8/10/2006	Cadmium	**1**	1	mg/kg
			8/10/2006	Lead	**43**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2980**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**4800**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**3810**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/9/2006

QC Reference Sample: **AO14039**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13831	EPX-220	8/8/2006	8/9/2006	pH Paste	**4.48**		
			8/10/2006	Arsenic	**87**	2	mg/kg
			8/10/2006	Cadmium	**3**	1	mg/kg
			8/10/2006	Lead	**174**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**4060**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**7500**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**4940**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]ental Laboratory

Total Metals

Preparation Date: 8/14/2006

Quality Assurance Satement for Samples: **AO13829-AO13832**
AO14039-AO14042

Original: AO14039 **Spike Sample:** AO14106 **Blank Spike:** AO14108

Duplicate: AO14105 **Blank Sample:** AO14107 **Reference Sample:** AO14109 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	26	26	0.00	100	130	**104**	Below MDL	98	**98**	153	142	**108**
Cadmium	0.5	Below MDL	Below MDL	**	100	91	**91**	Below MDL	96	**96**	65	64.5	**101**
Lead	1	97	91	6.38	100	253	**156**	Below MDL	97	**97**	97	93.6	**104**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 18-Sep-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/11/2006

QC Reference Sample: **AO14039**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO14039	EPX-221	8/10/2006	8/14/2006	pH Paste	**3.70**		
			8/14/2006	Arsenic	**26**	2	mg/kg
			8/14/2006	Cadmium	**Below MDL**	1	mg/kg
			8/14/2006	Lead	**97**	2	mg/kg
			9/12/2006	Sulfate - Leachable	**2920**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**7500**	500	mg/kg
			8/14/2006	Soil Paste Conductivity	**3650**		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]nental Laboratory

Total Metals

Preparation Date: 8/14/2006

Quality Assurance Satement for Samples: **AO13829-AO13832**
AO14039-AO14042

Original: AO14039 **Spike Sample:** AO14106 **Blank Spike:** AO14108

Duplicate: AO14105 **Blank Sample:** AO14107 **Reference Sample:** AO14109 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	26	26	0.00	100	130	**104**	Below MDL	98	**98**	153	142	**108**
Cadmium	0.5	Below MDL	Below MDL	**	100	91	**91**	Below MDL	96	**96**	65	64.5	**101**
Lead	1	97	91	6.38	100	253	**156**	Below MDL	97	**97**	97	93.6	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/18/2006

QC Reference Sample: **ao13712**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO14584	EPX 213B	8/17/2006	8/25/2006	pH Paste	**3.86**		
			8/24/2006	Arsenic	**59**	2	mg/kg
			8/24/2006	Lead	**309**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3560**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**5100**	500	mg/kg
			8/25/2006	Soil Paste Conductivity	**4920**		umhos/cm
AO14585	EPX 216A	8/17/2006	8/25/2006	pH Paste	**4.05**		
			8/24/2006	Arsenic	**68**	2	mg/kg
			8/24/2006	Lead	**174**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2930**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**5400**	500	mg/kg
			8/25/2006	Soil Paste Conductivity	**4400**		umhos/cm
AO14586	EPX 220A	8/17/2006	8/25/2006	pH Paste	**3.93**		
			8/24/2006	Arsenic	**55**	2	mg/kg
			8/24/2006	Lead	**150**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3010**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**6000**	500	mg/kg
			8/25/2006	Soil Paste Conductivity	**4490**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/23/2006

Quality Assurance Satement for Samples: **AO13705-AO13712**
AO14584-AO14587

Original: AO13712 **Spike Sample:** AO14714 **Blank Spike:** AO14716

Duplicate: AO14713 **Blank Sample:** AO14715 **Reference Sample:** AO14717 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	94	91	3.24	100	186	**92**	Below MDL	96	**96**	157	142	**111**
Lead	1	141	136	3.61	100	229	**88**	Below MDL	97	**97**	99	93.6	**106**

' = Sample concentration is 5 times higher than the spike amount.
* = Value is not greater than 10 times the MDL. An RPD cannot be calculated.
**= possible matrix interference

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/16/2006

QC Reference Sample: **AO14399**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO14402	EPX-222	8/14/2006	8/25/2006	pH Paste	**4.53**		
			8/17/2006	Arsenic	**32**	2	mg/kg
			8/18/2006	Cadmium	**Below MDL**	1	mg/kg
			8/17/2006	Lead	**134**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2440**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**5100**	500	mg/kg
AO14403	EPX-223	8/14/2006	8/25/2006	pH Paste	**7.16**		
			8/17/2006	Arsenic	**26**	2	mg/kg
			8/18/2006	Cadmium	**2**	1	mg/kg
			8/17/2006	Lead	**113**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3190**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**Below MDL**	500	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/16/2006

Quality Assurance Satement for Samples: **AO14384-AO14403**

Original: AO14399 **Spike Sample:** AO14410 **Blank Spike:** AO14412

Duplicate: AO14409 **Blank Sample:** AO14411 **Reference Sample:** AO14413 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	50	48	4.08	100	144	**94**	Below MDL	96	**96**	154	142	**108**
Lead	1	844	823	2.52	100	913	**69**	Below MDL	98	**98**	99	93.6	**106**

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** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/28/2006

QC Reference Sample: **ao14929**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO14929	EPX-224	8/25/2006	8/29/2006	pH Paste	**6.90**		
			8/29/2006	Arsenic	**15**	2	mg/kg
			8/29/2006	Cadmium	**Below MDL**	1	mg/kg
			8/29/2006	Lead	**70**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3040**	5	mg/Kg
			9/15/2006	Sulfate in Soils	**3000**	500	mg/kg
			8/29/2006	Soil Paste Conductivity	**3080**		umhos/cm
AO14930	EPX-225	8/25/2006	8/29/2006	pH Paste	**4.49**		
			8/29/2006	Arsenic	**23**	2	mg/kg
			8/29/2006	Cadmium	**Below MDL**	1	mg/kg
			8/29/2006	Lead	**88**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2990**	5	mg/Kg
			9/15/2006	Sulfate in Soils	**6000**	500	mg/kg
			8/29/2006	Soil Paste Conductivity	**3830**		umhos/cm
AO14931	EPX-226	8/25/2006	8/29/2006	pH Paste	**3.96**		
			8/29/2006	Arsenic	**21**	2	mg/kg
			8/29/2006	Cadmium	**Below MDL**	1	mg/kg
			8/29/2006	Lead	**92**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3520**	5	mg/Kg
			9/15/2006	Sulfate in Soils	**5700**	500	mg/kg
			8/29/2006	Soil Paste Conductivity	**4350**		umhos/cm
AO14932	EPX-227	8/25/2006	8/29/2006	pH Paste	**3.89**		
			8/29/2006	Arsenic	**26**	2	mg/kg
			8/29/2006	Cadmium	**Below MDL**	1	mg/kg
			8/29/2006	Lead	**191**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1360**	5	mg/Kg
			9/15/2006	Sulfate in Soils	**6300**	500	mg/kg
			8/29/2006	Soil Paste Conductivity	**2340**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/29/2006

Quality Assurance Satement for Samples: **AO14929-AO14932**

Original: AO14929 **Spike Sample:** AO14974 **Blank Spike:** AO14976

Duplicate: AO14973 **Blank Sample:** AO14975 **Reference Sample:** AO14977 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	15	16	-6.45	100	114	**99**	Below MDL	97	**97**	148	142	**104**
Cadmium	0.5	Below MDL	Below MDL	**	100	91	**91**	Below MDL	94	**94**	62	64.5	**96**
Lead	1	70	74	-5.56	100	165	**95**	Below MDL	95	**95**	91	93.6	**97**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 30-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 9/1/2006

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: AO15215

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO15204	EPX-213C	8/29/2006	9/5/2006	Arsenic	**42**	2	mg/kg
			9/5/2006	Lead	**139**	3	mg/kg
AO15205	EPX-216B	8/29/2006	9/5/2006	Arsenic	**52**	2	mg/kg
			9/5/2006	Lead	**109**	3	mg/kg
AO15206	EPX-220B	8/29/2006	9/5/2006	Arsenic	**45**	2	mg/kg
			9/5/2006	Lead	**146**	3	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/5/2006

Quality Assurance Satement for Samples: **AO15204-AO15215**

Original: AO15215 **Spike Sample:** AO15217 **Blank Spike:** AO15219

Duplicate: AO15216 **Blank Sample:** AO15218 **Reference Sample:** AO15220 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	45	48	-6.45	100	142	**97**	Below MDL	100	**100**	155	142	**109**
Lead	1	564	609	-7.67	100	650	**86**	3	99	**99**	95	93.6	**101**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/11/2006

QC Reference Sample: **ao15532**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO15532	EPX-228	9/7/2006	9/13/2006	pH Paste	**6.06**		
			9/12/2006	Arsenic	**13**	2	mg/kg
			9/12/2006	Cadmium	**Below MDL**	1	mg/kg
			9/12/2006	Lead	**58**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**3390**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**6000**	500	mg/kg
			9/13/2006	Soil Paste Conductivity	**3610**		umhos/cm
AO15533	EPX-229	9/7/2006	9/13/2006	pH Paste	**4.95**		
			9/12/2006	Arsenic	**17**	2	mg/kg
			9/12/2006	Cadmium	**Below MDL**	1	mg/kg
			9/12/2006	Lead	**115**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**3030**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**5400**	500	mg/kg
			9/13/2006	Soil Paste Conductivity	**3180**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/11/2006

QC Reference Sample: **ao15532**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO15534	EPX-916C	9/8/2006	9/13/2006	pH Paste	**4.00**		
			9/12/2006	Arsenic	**55**	2	mg/kg
			9/12/2006	Cadmium	**Below MDL**	1	mg/kg
			9/12/2006	Lead	**153**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**2720**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**3900**	500	mg/kg
			9/13/2006	Soil Paste Conductivity	**2970**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/12/2006

Quality Assurance Satement for Samples: **AO15532-AO15534**

Original: AO15532 **Spike Sample:** AO15557 **Blank Spike:** AO15559

Duplicate: AO15556 **Blank Sample:** AO15558 **Reference Sample:** AO15560 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	13	17	-26.67	100	107	**94**	Below MDL	92	**92**	146	142	**103**
Cadmium	0.5	Below MDL	Below MDL	**	100	87	**87**	Below MDL	90	**90**	62	64.5	**96**
Lead	1	58	162	-94.55	100	140	**82**	3	89	**89**	90	93.6	**96**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 20-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/22/2006

QC Reference Sample: **ao16210**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO16212	EPX-216D (1) was EP09210~~6.1~~	9/21/2006	9/25/2006	pH Paste	**3.84**		
			9/25/2006	Arsenic	**29**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**156**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**3430**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**14100**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**4140**		umhos/cm
AO16213	EPX-216D (2) was EP09210~~6.2~~	9/21/2006	9/25/2006	pH Paste	**3.93**		
			9/25/2006	Arsenic	**49**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**194**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**4160**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**12000**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**4730**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/25/2006

Quality Assurance Satement for Samples: **AO15655, AO16210-AO16217**

Original: AO16210 **Spike Sample:** AO16284 **Blank Spike:** AO16286

Duplicate: AO16283 **Blank Sample:** AO16285 **Reference Sample:** AO16287 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	13	10	26.09	100	105	**92**	Below MDL	88	**88**	141	142	**99**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	91	**91**	60	64.5	**93**
Lead	1	69	53	26.23	100	137	**68**	Below MDL	91	**91**	88	93.6	**94**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/22/2006

QC Reference Sample: **ao16210**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO16210	EPX-230	9/21/2006	9/25/2006	pH Paste	**3.99**		
			9/25/2006	Arsenic	**13**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**69**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**2850**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**3500**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**3300**		umhos/cm
AO16211	EPX-231	9/21/2006	9/25/2006	pH Paste	**4.19**		
			9/25/2006	Arsenic	**13**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**90**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**2360**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**14700**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**3000**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/25/2006

Quality Assurance Satement for Samples: **AO15655, AO16210-AO16217**

Original: AO16210 **Spike Sample:** AO16284 **Blank Spike:** AO16286

Duplicate: AO16283 **Blank Sample:** AO16285 **Reference Sample:** AO16287 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	13	10	26.09	100	105	**92**	Below MDL	88	**88**	141	142	**99**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	91	**91**	60	64.5	**93**
Lead	1	69	53	26.23	100	137	**68**	Below MDL	91	**91**	88	93.6	**94**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 10/6/2006

QC Reference Sample: **ao16870**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO16872	EPX-232	10/5/2006	10/9/2006	pH Paste	**5.81**		
			10/10/2006	Arsenic	**26**	2	mg/kg
			10/10/2006	Cadmium	**Below MDL**	1	mg/kg
			10/10/2006	Lead	**119**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**3080**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**3900**	500	mg/kg
			10/9/2006	Soil Paste Conductivity	**3760**		umhos/cm
AO16873	EPX-233	10/5/2006	10/9/2006	pH Paste	**4.70**		
			10/10/2006	Arsenic	**37**	2	mg/kg
			10/10/2006	Cadmium	**Below MDL**	1	mg/kg
			10/10/2006	Lead	**148**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**2950**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**10800**	500	mg/kg
			10/9/2006	Soil Paste Conductivity	**3540**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

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Total Metals

Preparation Date: 10/9/2006

Quality Assurance Satement for Samples: **AO16858-AO16876, AO16726**

Original: AO16870 **Spike Sample:** AO16886 **Blank Spike:** AO16888

Duplicate: AO16885 **Blank Sample:** AO16887 **Reference Sample:** AO16890 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	95	**95**	Below MDL	109	**109**	182	171	**106**
Arsenic	2	25	25	0.00	100	125	**100**	Below MDL	100	**100**	156	142	**110**
Barium	2	79	80	-1.26	100	186	**107**	Below MDL	101	**101**	241	224	**108**
Cadmium	0.5	Below MDL	Below MDL	**	100	97	**97**	Below MDL	98	**98**	66	64.5	**102**
Chromium	1	14	14	0.00	100	113	**99**	Below MDL	100	**100**	92	86.5	**106**
Lead	1	113	122	-7.66	100	209	**96**	Below MDL	100	**100**	94	93.6	**100**
Selenium	2	Below MDL	Below MDL	**	100	91	**91**	Below MDL	121	**121**	121	124	**98**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 10/23/2006

QC Reference Sample: **ao08707**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO17568	EPX-234	10/20/2006	10/27/2006	pH Paste	**4.09**		
			10/25/2006	Arsenic	**30**	2	mg/kg
			10/25/2006	Cadmium	**Below MDL**	1	mg/kg
			10/25/2006	Lead	**117**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**3020**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**6300**	500	mg/kg
			10/27/2006	Soil Paste Conductivity	**3540**		umhos/cm
AO17569	EPX-235	10/20/2006	10/27/2006	pH Paste	**5.04**		
			10/25/2006	Arsenic	**27**	2	mg/kg
			10/25/2006	Cadmium	**Below MDL**	1	mg/kg
			10/25/2006	Lead	**97**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**3120**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**3500**	500	mg/kg
			10/27/2006	Soil Paste Conductivity	**3620**		umhos/cm
AO17570	EPX-236	10/20/2006	10/27/2006	pH Paste	**5.02**		
			10/25/2006	Arsenic	**29**	2	mg/kg
			10/25/2006	Cadmium	**Below MDL**	1	mg/kg
			10/25/2006	Lead	**159**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**3100**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**6900**	500	mg/kg
			10/27/2006	Soil Paste Conductivity	**3700**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/25/2006

Quality Assurance Satement for Samples: **AO08707, AO12113, AO17055**
AO17263-AO17265
AO17568-AO17570
AO17707

Original: AO08707 **Spike Sample:** AO17665 **Blank Spike:** AO17667

Duplicate: AO017664 **Blank Sample:** AO17666 **Reference Sample:** AO17668 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	14	15	-6.90	100	114	**100**	Below MDL	95	**95**	150	142	**106**
Barium	2	90	92	-2.20	100	195	**105**	Below MDL	99	**99**	238	224	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	93	**93**	Below MDL	95	**95**	65	64.5	**101**
Chromium	1	30	31	-3.28	100	130	**100**	Below MDL	98	**98**	92	86.5	**106**
Lead	1	149	111	[redacted]	100	155	[redacted]	Below MDL	99	**99**	97	93.6	**104**
Selenium	2	Below MDL	Below MDL	**	100	86	**91**	Below MDL	86	**86**	114	124	**92**
Copper	1	680	690	-1.46	100	947	[redacted]	Below MDL	108	**108**	75	100	**75**

* = Sample concentration is 5 times higher than the spike amount.
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Samples highlighted have been verified.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/3/2006

QC Reference Sample: **ao18225**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO18209	EPX-237	11/2/2006	11/3/2006	pH Paste	**5.19**		
			11/6/2006	Arsenic	**42**	2	mg/kg
			11/6/2006	Lead	**168**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**3640**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**6600**	500	mg/kg
			11/3/2006	Soil Paste Conductivity	**4220**		umhos/cm
AO18210	EPX-238	11/2/2006	11/3/2006	pH Paste	**4.35**		
			11/6/2006	Arsenic	**40**	2	mg/kg
			11/6/2006	Lead	**225**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2210**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**5100**	500	mg/kg
			11/3/2006	Soil Paste Conductivity	**2800**		umhos/cm
AO18211	EPX-239	11/2/2006	11/3/2006	pH Paste	**4.39**		
			11/6/2006	Arsenic	**92**	2	mg/kg
			11/6/2006	Lead	**621**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2790**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**6000**	500	mg/kg
			11/3/2006	Soil Paste Conductivity	**3420**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 11/6/2006

Quality Assurance Satement for Samples: **AO18209-AO18225**

Original: AO18225 **Spike Sample:** AO18287 **Blank Spike:** AO18289

Duplicate: AO18286 **Blank Sample:** AO18288 **Reference Sample:** AO18290 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	121	136	-11.67	100	199	**78**	Below MDL	109	**109**	161	142	**113**
Lead	1	298	314	-5.23	100	396	**98**	Below MDL	106	**106**	101	93.6	**108**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/13/2006

QC Reference Sample: **AO18706**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO18700	EPX-239-A	11/10/2006	11/17/2006	pH Paste	**6.91**		
			11/15/2006	Arsenic	**36**	2	mg/kg
			11/15/2006	Copper	**385**	2.0	mg/kg
			11/15/2006	Lead	**164**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2360**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**9000**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**3290**		umhos/cm
AO18701	EPX-240	11/10/2006	11/17/2006	pH Paste	**4.12**		
			11/15/2006	Arsenic	**23**	2	mg/kg
			11/15/2006	Copper	**401**	2.0	mg/kg
			11/15/2006	Lead	**269**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**1440**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**5400**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**2150**		umhos/cm
AO18702	EPX-241	11/10/2006	11/17/2006	pH Paste	**4.75**		
			11/15/2006	Arsenic	**58**	2	mg/kg
			11/15/2006	Copper	**188**	2.0	mg/kg
			11/15/2006	Lead	**103**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2160**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**10500**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**2890**		umhos/cm
AO18703	EPX-242	11/10/2006	11/17/2006	pH Paste	**7.10**		
			11/15/2006	Arsenic	**16**	2	mg/kg
			11/15/2006	Copper	**615**	2.0	mg/kg
			11/15/2006	Lead	**109**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2160**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**9000**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**2920**		umhos/cm
AO18704	EPX-243	11/10/2006	11/17/2006	pH Paste	**4.69**		
			11/15/2006	Arsenic	**25**	2	mg/kg
			11/15/2006	Copper	**272**	2.0	mg/kg
			11/15/2006	Lead	**56**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**1450**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**4200**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**2090**		umhos/cm
AO18705	EPX-244	11/10/2006	11/17/2006	pH Paste	**6.30**		
			11/15/2006	Arsenic	**18**	2	mg/kg
			11/15/2006	Copper	**173**	2.0	mg/kg
			11/15/2006	Lead	**86**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**1290**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**2200**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**1850**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO18706	EPX-245	11/10/2006	11/17/2006	pH Paste	**3.55**		
			11/15/2006	Arsenic	**29**	2	mg/kg
			11/16/2006	Barium	**79**	2	mg/kg
			11/16/2006	Cadmium	**Below MDL**	1	mg/kg
			11/16/2006	Chromium	**16**	2	mg/kg
			11/15/2006	Copper	**218**	2.0	mg/kg
			11/15/2006	Lead	**134**	3	mg/kg
			11/16/2006	Selenium	**Below MDL**	2	mg/kg
			12/28/2006	Sulfate - Leachable	**360**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**6300**	500	mg/kg
			11/17/2006	Soil Paste Conductivity	**730**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]ental Laboratory

Total Metals

Preparation Date: 11/15/2006

Quality Assurance Satement for Samples: **AO17884, AO17887, AO17890 AO17893, AO18700-AO18711, AO18828-AO18830**

Original: AO17884 **Spike Sample:** AO18860 **Blank Spike:** AO18862

Duplicate: AO18859 **Blank Sample:** AO18861 **Reference Sample:** AO18863 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	29	28	3.51	100	114	**85**	Below MDL	90	**90**	138	142	**97**
Barium	2	79	84	-6.13	100	175	**96**	Below MDL	94	**94**	224	224	**100**
Cadmium	0.5	Below MDL	Below MDL	**	100	87	**87**	Below MDL	90	**90**	62	64.5	**96**
Chromium	1	16	16	0.00	100	109	**93**	Below MDL	94	**94**	90	86.5	**104**
Lead	1	134	121	10.20	100	213	**79**	Below MDL	90	**90**	88	93.6	**94**
Selenium	2	Below MDL	Below MDL	**	100	52	[illegible]	Below MDL	99	**99**	101	124	**81**
Copper	1	218	228	-4.48	100	320	**102**	Below MDL	75	**75**	75	100	**75**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 19-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 11/28/2006

QC Reference Sample: **AO19206**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO19388	EPX-241A	11/27/2006	12/1/2006	pH Paste	**7.01**		
			12/1/2006	pH Paste	**7.01**		
			12/5/2006	Arsenic	**35**	2	mg/kg
			12/5/2006	Arsenic	**35**	2	mg/kg
			12/5/2006	Lead	**195**	3	mg/kg
			12/5/2006	Lead	**195**	3	mg/kg
			12/28/2006	Sulfate - Leachable	**2170**	5	mg/Kg
			12/28/2006	Sulfate - Leachable	**2170**	5	mg/Kg
			12/21/2006	Sulfate in Soils	**3000**	500	mg/kg
			12/21/2006	Sulfate in Soils	**3000**	500	mg/kg
			12/1/2006	Soil Paste Conductivity	**2940**		umhos/cm
			12/1/2006	Soil Paste Conductivity	**2940**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 12/1/2006

Quality Assurance Satement for Samples: **AO19126-AO19128, AO19205-AO19212, AO19387, AO19388**

Original: AO19206 **Spike Sample:** AO19522 **Blank Spike:** AO19524

Duplicate: AO19521 **Blank Sample:** AO19523 **Reference Sample:** AO19525 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	7	7	0.00	100	93	**86**	Below MDL	89	**89**	137	142	**96**
Lead	1	43	63	-37.74	100	131	**88**	Below MDL	89	**89**	86	93.6	**92**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Laboratory Analytical Certificates and QA Statements

Characterization/Confirmation Sampling

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Submission Date: 9/30/2004

Metals Analysis: SWA846 Methods 60100B and 7471

QC Reference Sample: **AM19453**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AM19446	EPT1-1	9/27/2004	10/6/2004	pH Paste	**8.09**		
			10/1/2004	Arsenic	**25**	2	mg/kg
			10/1/2004	Lead	**85**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**5**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**360**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**4790**		umhos/cm
AM19447	EPT1-2	9/27/2004	10/6/2004	pH Paste	**9.14**		
			10/1/2004	Arsenic	**13**	2	mg/kg
			10/1/2004	Lead	**64**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**5**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**600**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**170**		umhos/cm
AM19448	EPT1-3	9/27/2004	10/6/2004	pH Paste	**8.73**		
			10/1/2004	Arsenic	**18**	2	mg/kg
			10/1/2004	Lead	**88**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**25**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**630**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**200**		umhos/cm
AM19449	EPT1-4	9/27/2004	10/6/2004	pH Paste	**8.98**		
			10/1/2004	Arsenic	**12**	2	mg/kg
			10/1/2004	Lead	**49**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**33**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**1120**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**260**		umhos/cm
AM19450	EPT1-5	9/27/2004	10/6/2004	pH Paste	**8.91**		
			10/1/2004	Arsenic	**15**	2	mg/kg
			10/1/2004	Lead	**67**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**117**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**930**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**520**		umhos/cm
AM19451	EPT2-1	9/27/2004	10/6/2004	pH Paste	**8.98**		
			10/1/2004	Arsenic	**12**	2	mg/kg
			10/1/2004	Lead	**74**	2	mg/kg
			10/11/2004	Sulfate - Leachable	**22**	5	mg/Kg
			10/14/2004	Sulfate in Soils	**870**	500	mg/kg
			10/6/2004	Soil Paste Conductivity	**210**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AM19452	EPT2-2	9/27/2004	10/6/2004	pH Paste	9.01		
			10/1/2004	Arsenic	16	2	mg/kg
			10/1/2004	Lead	45	2	mg/kg
			10/11/2004	Sulfate - Leachable	210	5	mg/Kg
			10/14/2004	Sulfate in Soils	690	500	mg/kg
			10/6/2004	Soil Paste Conductivity	750		umhos/cm
AM19453	EPT2-3	9/27/2004	10/6/2004	pH Paste	8.80		
			10/1/2004	Arsenic	16	2	mg/kg
			10/4/2004	Barium	88	2	mg/kg
			10/4/2004	Cadmium	Below MDL	1	mg/kg
			10/4/2004	Chromium	21	2	mg/kg
			10/4/2004	Copper	122	2.0	mg/kg
			10/1/2004	Lead	66	2	mg/kg
			10/4/2004	Selenium	Below MDL	2	mg/kg
			10/4/2004	Silver	Below MDL	1	mg/kg
			10/11/2004	Sulfate - Leachable	202	5	mg/Kg
			10/14/2004	Sulfate in Soils	570	500	mg/kg
			10/6/2004	Soil Paste Conductivity	740		umhos/cm
AM19454	EPT2-4	9/27/2004	10/6/2004	pH Paste	8.00		
			10/1/2004	Arsenic	11	2	mg/kg
			10/1/2004	Lead	46	2	mg/kg
			10/11/2004	Sulfate - Leachable	150	5	mg/Kg
			10/14/2004	Sulfate in Soils	1120	500	mg/kg
			10/6/2004	Soil Paste Conductivity	580		umhos/cm
AM19455	EPT2-5	9/27/2004	10/6/2004	pH Paste	6.56		
			10/1/2004	Arsenic	14	2	mg/kg
			10/1/2004	Lead	32	2	mg/kg
			10/11/2004	Sulfate - Leachable	553	5	mg/Kg
			10/5/2004	Sulfate in Soils	4200	500	mg/kg
			10/6/2004	Soil Paste Conductivity	1030		umhos/cm
AM19456	EPT2-6	9/27/2004	10/6/2004	pH Paste	6.90		
			10/1/2004	Arsenic	12	2	mg/kg
			10/1/2004	Lead	65	2	mg/kg
			10/11/2004	Sulfate - Leachable	1380	5	mg/Kg
			10/5/2004	Sulfate in Soils	9000	500	mg/kg
			10/6/2004	Soil Paste Conductivity	2070		umhos/cm
AM19457	EPT2-7	9/27/2004	10/6/2004	pH Paste	6.69		
			10/1/2004	Arsenic	8	2	mg/kg
			10/1/2004	Lead	43	2	mg/kg
			10/11/2004	Sulfate - Leachable	814	5	mg/Kg
			10/5/2004	Sulfate in Soils	10200	500	mg/kg
			10/6/2004	Soil Paste Conductivity	1430		umhos/cm

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/1/2004

For samples: AM19446-AM19459, AM19501-AM19502

Original: AM19453 **Spike Sample:** AM19493 **Blank SPIKE:** AM19495

Duplicate: AM19492 **Blank Sample:** AM19494 **Reference Sample:** AM19496 0017-15-09

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	16	17	-6.06	100	117	**100**	Below MDL	97	**97**	277	283	98
Lead	1	66	61	7.87	100	173	**112**	Below MDL	98	**98**	81	84.7	96

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 3/29/2005

QC Reference Sample: **AN04628**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN04628	EP0329-1-1	3/29/2005	4/1/2005	pH Paste	**4.17**		
			3/30/2005	Arsenic	**5.3**	2	mg/kg
			3/30/2005	Lead	**19.2**	2	mg/kg
AN04629	EP0329-1-2	3/29/2005	4/1/2005	pH Paste	**4.17**		
			3/30/2005	Arsenic	**3.7**	2	mg/kg
			3/30/2005	Lead	**18.5**	2	mg/kg
AN04630	EP0329-1-3	3/29/2005	4/1/2005	pH Paste	**4.04**		
			3/30/2005	Arsenic	**2.9**	2	mg/kg
			3/30/2005	Lead	**20.0**	2	mg/kg
AN04631	EP0329-1-4	3/29/2005	4/1/2005	pH Paste	**3.94**		
			3/30/2005	Arsenic	**2.6**	2	mg/kg
			3/30/2005	Lead	**15.5**	2	mg/kg
AN04632	EP0329-1-5	3/29/2005	4/1/2005	pH Paste	**4.44**		
			3/30/2005	Arsenic	**4.4**	2	mg/kg
			3/30/2005	Lead	**42.8**	2	mg/kg
AN04633	EP0329-2-1	3/29/2005	4/1/2005	pH Paste	**4.41**		
			3/30/2005	Arsenic	**3.2**	2	mg/kg
			3/30/2005	Lead	**31.4**	2	mg/kg
AN04634	EP0329-2-2	3/29/2005	4/1/2005	pH Paste	**4.21**		
			3/30/2005	Arsenic	**3.1**	2	mg/kg
			3/30/2005	Lead	**33.9**	2	mg/kg
AN04635	EP0329-2-3	3/29/2005	4/1/2005	pH Paste	**4.13**		
			3/30/2005	Arsenic	**2.5**	2	mg/kg
			3/30/2005	Lead	**29.0**	2	mg/kg
AN04636	EP0329-2-4	3/29/2005	4/1/2005	pH Paste	**3.85**		
			3/30/2005	Arsenic	**7.6**	2	mg/kg
			3/30/2005	Lead	**56.9**	2	mg/kg
AN04637	EP0329-3-1	3/29/2005	4/1/2005	pH Paste	**4.71**		
			3/30/2005	Arsenic	**67.6**	2	mg/kg
			3/30/2005	Lead	**112**	2	mg/kg
AN04638	EP0329-3-2	3/29/2005	4/1/2005	pH Paste	**5.70**		
			3/30/2005	Arsenic	**26.5**	2	mg/kg
			3/30/2005	Lead	**83.6**	2	mg/kg

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 3/29/2005

QC Reference Sample: **AN04628**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN04639	EP0329-3-3	3/29/2005	4/1/2005	pH Paste	**4.53**		
			3/30/2005	Arsenic	**12.5**	2	mg/kg
			3/30/2005	Lead	**56.7**	2	mg/kg
AN04640	EP0329-3-4	3/29/2005	4/4/2005	pH Paste	**4.66**		
			3/30/2005	Arsenic	**6.8**	2	mg/kg
			3/30/2005	Lead	**57.9**	2	mg/kg
AN04641	EP0329-3-5	3/29/2005	4/4/2005	pH Paste	**4.49**		
			3/30/2005	Arsenic	**2.4**	2	mg/kg
			3/30/2005	Lead	**24.1**	2	mg/kg
AN04642	EP0329-4-1	3/29/2005	4/4/2005	pH Paste	**4.54**		
			3/30/2005	Arsenic	**67.9**	2	mg/kg
			3/30/2005	Lead	**99.6**	2	mg/kg
AN04643	EP0329-4-2	3/29/2005	4/4/2005	pH Paste	**4.45**		
			3/30/2005	Arsenic	**76.8**	2	mg/kg
			3/30/2005	Lead	**160**	2	mg/kg
[illegible]04644	EP0329-4-3	3/29/2005	4/4/2005	pH Paste	**4.44**		
			3/30/2005	Arsenic	**26.9**	2	mg/kg
			3/30/2005	Lead	**99.8**	2	mg/kg
AN04645	EP0329-4-4	3/29/2005	4/4/2005	pH Paste	**4.35**		
			3/30/2005	Arsenic	**3.4**	2	mg/kg
			3/30/2005	Lead	**30.7**	2	mg/kg
AN04646	EP0329-5-1	3/29/2005	4/4/2005	pH Paste	**4.97**		
			3/30/2005	Arsenic	**11.6**	2	mg/kg
			3/30/2005	Lead	**61.3**	2	mg/kg
AN04647	EP0329-5-2	3/29/2005	4/4/2005	pH Paste	**4.35**		
			3/30/2005	Arsenic	**7.6**	2	mg/kg
			3/30/2005	Lead	**102**	2	mg/kg
AN04648	EP0329-5-3	3/29/2005	4/4/2005	pH Paste	**4.61**		
			3/30/2005	Arsenic	**2.6**	2	mg/kg
			3/30/2005	Lead	**22.0**	2	mg/kg
AN04649	EP0329-5-4	3/29/2005	4/4/2005	pH Paste	**4.48**		
			3/30/2005	Arsenic	**2.0**	2	mg/kg
			3/30/2005	Lead	**19.1**	2	mg/kg

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson, CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 3/30/2005

Quality Assurance Statement for Samples: **AN04628 - AN04638**

Original: AN04628 **Spike Sample:** AN04651 **Blank SPIKE:** AN04653

Duplicate: AN04650 **Blank Sample:** AN04652 **Reference Sample:** AN04654 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	5.3	2	**	100	98	**93**	Below MDL	93	**93**	167	161	**104**
Lead	1	19.2	17	12.15	100	114	**95**	Below MDL	98	**98**	146	142	**103**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 4/7/2005

QC Reference Sample: **AN05061**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN05280	EP30-X1	4/6/2005	4/11/2005	pH Paste	**4.99**		
			4/8/2005	Arsenic	**17**	2	mg/kg
			4/8/2005	Lead	**52**	2	mg/kg
AN05281	EP30-X2	4/6/2005	4/11/2005	pH Paste	**4.26**		
			4/8/2005	Arsenic	**13**	2	mg/kg
			4/8/2005	Lead	**81**	2	mg/kg
AN05282	EP30-X3	4/6/2005	4/11/2005	pH Paste	**3.88**		
			4/8/2005	Arsenic	**18**	2	mg/kg
			4/8/2005	Lead	**80**	2	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

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Utah Copper

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 4/7/2005

QC Reference Sample: **AN05061**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN05273	EP-30-13.3	4/6/2005	4/11/2005	pH Paste	**4.13**		
			4/8/2005	Arsenic	**42**	2	mg/kg
			4/8/2005	Lead	**181**	2	mg/kg
AN05274	EP-30-13.4	4/6/2005	4/11/2005	pH Paste	**3.99**		
			4/8/2005	Arsenic	**16**	2	mg/kg
			4/8/2005	Lead	**45**	2	mg/kg
AN05275	EP-30-14.1	4/6/2005	4/11/2005	pH Paste	**4.46**		
			4/8/2005	Arsenic	**62**	2	mg/kg
			4/8/2005	Lead	**64**	2	mg/kg
AN05276	EP-30-14.2	4/6/2005	4/11/2005	pH Paste	**4.41**		
			4/8/2005	Arsenic	**123**	2	mg/kg
			4/8/2005	Lead	**72**	2	mg/kg
AN05277	EP-30-14.3	4/6/2005	4/11/2005	pH Paste	**4.34**		
			4/8/2005	Arsenic	**64**	2	mg/kg
			4/8/2005	Lead	**53**	2	mg/kg
AN05278	EP-30-14.4	4/6/2005	4/11/2005	pH Paste	**4.28**		
			4/8/2005	Arsenic	**64**	2	mg/kg
			4/8/2005	Lead	**184**	2	mg/kg
AN05279	EP-30-14.5	4/6/2005	4/11/2005	pH Paste	**4.16**		
			4/8/2005	Arsenic	**68**	2	mg/kg
			4/8/2005	Lead	**92**	2	mg/kg
AN05283	EP30-11.1	4/6/2005	4/11/2005	pH Paste	**4.75**		
			4/8/2005	Arsenic	**30**	2	mg/kg
			4/8/2005	Lead	**90**	2	mg/kg
AN05284	EP30-11.2	4/6/2005	4/11/2005	pH Paste	**4.62**		
			4/8/2005	Arsenic	**49**	2	mg/kg
			4/8/2005	Lead	**92**	2	mg/kg
AN05285	EP30-11.3	4/6/2005	4/11/2005	pH Paste	**4.51**		
			4/8/2005	Arsenic	**55**	2	mg/kg
			4/8/2005	Lead	**169**	2	mg/kg
AN05286	EP30-11.4	4/6/2005	4/11/2005	pH Paste	**4.41**		
			4/8/2005	Arsenic	**29**	2	mg/kg
			4/8/2005	Lead	**190**	2	mg/kg
AN05287	EP30-11.5	4/6/2005	4/11/2005	pH Paste	**4.40**		
			4/8/2005	Arsenic	**14**	2	mg/kg
			4/8/2005	Lead	**111**	2	mg/kg

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN05288	EP30-12.1	4/6/2005	4/11/2005	pH Paste	4.44		
			4/8/2005	Arsenic	66	2	mg/kg
			4/8/2005	Lead	174	2	mg/kg
AN05289	EP30-12.2	4/6/2005	4/11/2005	pH Paste	4.31		
			4/8/2005	Arsenic	58	2	mg/kg
			4/8/2005	Lead	143	2	mg/kg
AN05290	EP30-12.3	4/6/2005	4/11/2005	pH Paste	4.35		
			4/8/2005	Arsenic	38	2	mg/kg
			4/8/2005	Lead	100	2	mg/kg
AN05291	EP30-12.4	4/6/2005	4/11/2005	pH Paste	4.26		
			4/8/2005	Arsenic	25	2	mg/kg
			4/8/2005	Lead	85	2	mg/kg
AN05292	EP30-13.1	4/6/2005	4/11/2005	pH Paste	4.27		
			4/8/2005	Arsenic	10	2	mg/kg
			4/8/2005	Lead	49	2	mg/kg
AN05293	EP30-13.2	4/6/2005	4/11/2005	pH Paste	4.21		
			4/8/2005	Arsenic	22	2	mg/kg
			4/8/2005	Lead	85	2	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/8/2005

Quality Assurance Statement for Samples: **AN05061 - AN05062**
AN05118
AN05156 - AN05157
AN05273 - AN05295

Original: AN05061 **Spike Sample:** AN05297 **Blank SPIKE:** AN05299

Duplicate: AN05296 **Blank Sample:** AN05298 **Reference Sample:** AN05300 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	98	**98**	Below MDL	98	**98**	149	130	**115**
Arsenic	2	25	24	4.08	100	120	**95**	Below MDL	95	**95**	167	161	**104**
Barium	2	82	82	0.00	100	182	**100**	Below MDL	99	**99**	266	252	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	94	**94**	Below MDL	95	**95**	127	128	**99**
Chromium	1	126	130	-3.13	100	208	**82**	Below MDL	99	**99**	73	69.5	**105**
Lead	1	78	77	1.29	100	176	**98**	Below MDL	90	**90**	147	142	**104**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	84	**84**	57	64.2	**89**
Copper	1	217	218	-0.46	100	325	**108**	Below MDL	103	**103**	163	148	**110**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 4/21/2005

QC Reference Sample: **AN06008**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN06203	EP30-15.1	4/21/2005	4/22/2005	pH Paste	**6.58**		
			4/22/2005	Arsenic	**23**	2	mg/kg
			4/22/2005	Lead	**50**	2	mg/kg
AN06204	EP30-15.2	4/21/2005	4/22/2005	pH Paste	**6.11**		
			4/22/2005	Arsenic	**11**	2	mg/kg
			4/22/2005	Lead	**35**	2	mg/kg
AN06205	EP30-15.3	4/21/2005	4/22/2005	pH Paste	**4.27**		
			4/22/2005	Arsenic	**11**	2	mg/kg
			4/22/2005	Lead	**61**	2	mg/kg
AN06206	EP30-16.1	4/21/2005	4/22/2005	pH Paste	**4.31**		
			4/22/2005	Arsenic	**27**	2	mg/kg
			4/22/2005	Lead	**70**	2	mg/kg
AN06207	EP30-16.2	4/21/2005	4/22/2005	pH Paste	**4.24**		
			4/22/2005	Arsenic	**13**	2	mg/kg
			4/22/2005	Lead	**44**	2	mg/kg
AN06208	EP30-16.3	4/21/2005	4/22/2005	pH Paste	**4.14**		
			4/22/2005	Arsenic	**9**	2	mg/kg
			4/22/2005	Lead	**53**	2	mg/kg
AN06209	EP30-17.1	4/21/2005	4/22/2005	pH Paste	**3.89**		
			4/22/2005	Arsenic	**6**	2	mg/kg
			4/22/2005	Lead	**53**	2	mg/kg
AN06210	EP30-17.2	4/21/2005	4/22/2005	pH Paste	**3.94**		
			4/22/2005	Arsenic	**9**	2	mg/kg
			4/22/2005	Lead	**37**	2	mg/kg
AN06211	EP30-17.3	4/21/2005	4/22/2005	pH Paste	**3.80**		
			4/22/2005	Arsenic	**11**	2	mg/kg
			4/22/2005	Lead	**23**	2	mg/kg
			4/28/2005	Sulfate - Leachable	**2320**	5	mg/Kg
			5/26/2005	Sulfate in Soils	**3900**	500	mg/kg
AN06212	EP30-17.4	4/21/2005	4/22/2005	pH Paste	**4.05**		
			4/22/2005	Arsenic	**35**	2	mg/kg
			4/22/2005	Lead	**67**	2	mg/kg
			4/28/2005	Sulfate - Leachable	**1160**	5	mg/Kg
			5/26/2005	Sulfate in Soils	**1800**	500	mg/kg

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/22/2005

Quality Assurance Statement for Samples: **AN06008 - AN06011**
AN06201 - AN06212

Original: AN06008 **Spike Sample:** AN06214 **Blank SPIKE:** AN06216

Duplicate: AN06213 **Blank Sample:** AN06215 **Reference Sample:** AN06217 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	83	**83**	Below MDL	94	**94**	155	130	**119**
Arsenic	2	Below MDL	Below MDL	**	100	89	**89**	Below MDL	98	**98**	183	161	**114**
Barium	2	718	733	-2.07	100	770	*	Below MDL	98	**98**	281	252	**112**
Cadmium	0.5	Below MDL	Below MDL	**	100	79	**79**	Below MDL	94	**94**	133	128	**104**
Chromium	1	67	69	-2.94	100	149	**82**	Below MDL	99	**99**	77	69.5	**111**
Lead	1	13	10	26.09	100	89.4	**76**	Below MDL	98	**98**	155	142	**109**
Selenium	2	17	6	**	100	85	**68**	Below MDL	85	**85**	60	64.2	**93**
Copper	1	55	54	1.83	100	148	**93**	Below MDL	102	**102**	167	148	**113**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Submission Date: 4/26/2005

Metals Analysis: *SWA846 Methods 60100B and 7471*

QC Reference Sample: **AN06416**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN06411	EP30-18.1	4/25/2005	4/27/2005	pH Paste	**4.12**		
			4/27/2005	Arsenic	**15**	2	mg/kg
			4/27/2005	Lead	**92**	2	mg/kg
AN06412	EP30-18.2	4/25/2005	4/27/2005	pH Paste	**4.19**		
			4/27/2005	Arsenic	**12**	2	mg/kg
			4/27/2005	Lead	**40**	2	mg/kg

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/27/2005

Quality Assurance Statement for Samples: **AN06411 - AN06416**

Original: AN06416 **Spike Sample:** AN06418 **Blank SPIKE:** AN06420

Duplicate: AN06417 **Blank Sample:** AN06419 **Reference Sample:** AN06421 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	96	**96**	Below MDL	98	**98**	143	130	**110**
Arsenic	2	3	3	**	100	99	**99**	Below MDL	101	**101**	167	161	**104**
Barium	2	134	100	29.06	100	195	**95**	Below MDL	103	**103**	262	252	**104**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	97	**97**	122	128	**95**
Chromium	1	18	15	18.18	100	112	**94**	Below MDL	103	**103**	74	69.5	**106**
Lead	1	15	14	6.90	100	102	**87**	Below MDL	101	**101**	140	142	**99**
Selenium	2	Below MDL	Below MDL	**	100	86	**86**	Below MDL	92	**92**	58	64.2	**90**
Copper	1	22	20	9.52	100	118	**96**	Below MDL	106	**106**	155	148	**105**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 7/21/2005

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: **AN12251**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN12239	EP26 W1	7/20/2005	7/22/2005	pH Paste	**3.94**		
			7/22/2005	Arsenic	**75**	2	mg/kg
			7/22/2005	Lead	**199**	2	mg/kg
AN12240	EP26 W2	7/20/2005	7/22/2005	pH Paste	**3.85**		
			7/22/2005	Arsenic	**15**	2	mg/kg
			7/22/2005	Lead	**161**	2	mg/kg
AN12241	EP26 W3	7/20/2005	7/22/2005	pH Paste	**3.83**		
			7/22/2005	Arsenic	**81**	2	mg/kg
			7/22/2005	Lead	**89**	2	mg/kg
AN12242	EP26 1	7/20/2005	7/22/2005	pH Paste	**4.24**		
			7/22/2005	Arsenic	**34**	2	mg/kg
			7/22/2005	Lead	**339**	2	mg/kg
AN12243	EP26 2	7/20/2005	7/22/2005	pH Paste	**4.10**		
			7/22/2005	Arsenic	**19**	2	mg/kg
			7/22/2005	Lead	**320**	2	mg/kg
AN12244	EP26 3	7/20/2005	7/22/2005	pH Paste	**4.01**		
			7/22/2005	Arsenic	**20**	2	mg/kg
			7/22/2005	Lead	**50**	2	mg/kg
AN12245	EP26 N1	7/20/2005	7/22/2005	pH Paste	**4.20**		
			7/22/2005	Arsenic	**13**	2	mg/kg
			7/22/2005	Lead	**310**	2	mg/kg
AN12246	EP26 N2	7/20/2005	7/22/2005	pH Paste	**6.93**		
			7/22/2005	Arsenic	**62**	2	mg/kg
			7/22/2005	Lead	**202**	2	mg/kg
AN12247	EP26 N3	7/20/2005	7/22/2005	pH Paste	**4.73**		
			7/22/2005	Arsenic	**75**	2	mg/kg
			7/22/2005	Lead	**67**	2	mg/kg
AN12248	EP26 S1	7/20/2005	7/22/2005	pH Paste	**4.95**		
			7/22/2005	Arsenic	**52**	2	mg/kg
			7/22/2005	Lead	**349**	2	mg/kg
AN12249	EP26 S2	7/20/2005	7/22/2005	pH Paste	**6.93**		
			7/22/2005	Arsenic	**54**	2	mg/kg
			7/22/2005	Lead	**177**	2	mg/kg
AN12250	EP26 S3	7/20/2005	7/22/2005	pH Paste	**3.96**		
			7/22/2005	Arsenic	**56**	2	mg/kg
			7/22/2005	Lead	**96**	2	mg/kg

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN12251	EP26 E1	7/20/2005	7/22/2005	pH Paste	**4.21**		
			7/22/2005	Arsenic	**70**	2	mg/kg
			7/25/2005	Barium	**132**	2	mg/kg
			7/25/2005	Cadmium	**Below MDL**	1	mg/kg
			7/25/2005	Chromium	**30**	2	mg/kg
			7/25/2005	Copper	**923**	2.0	mg/kg
			7/22/2005	Lead	**320**	2	mg/kg
			7/25/2005	Selenium	**Below MDL**	2	mg/kg
			7/25/2005	Silver	**Below MDL**	1	mg/kg
AN12252	EP26 E2	7/20/2005	7/22/2005	pH Paste	**4.23**		
			7/22/2005	Arsenic	**20**	2	mg/kg
			7/22/2005	Lead	**319**	2	mg/kg

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN12239-AN12253**

Original: AN12251 **Spike Sample:** AN12285 **Blank Spike:** AN12287

Duplicate: AN12284 **Blank Sample:** AN12286 **Reference Sample:** AN12288 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	93	**93**	Below MDL	101	**101**	115	102	**113**
Arsenic	2	70	80	-13.33	100	166	**96**	Below MDL	98	**98**	118	111	**106**
Barium	2	132	123	7.06	100	216	**84**	Below MDL	102	**102**	205	195	**105**
Cadmium	0.5	Below MDL	Below MDL	**	100	89.5	**90**	Below MDL	98.2	**98**	109	110	**99**
Chromium	1	30	30	0.00	100	126	**96**	Below MDL	102	**102**	167	154	**108**
Lead	1	320	364	-12.87	100	419	**99**	Below MDL	101	**101**	160	158	**101**
Selenium	2	Below MDL	Below MDL	**	100	78	**78**	Below MDL	90	**90**	86	94.4	**91**
Copper	1	923	993	-7.31	100	1080	**157***	Below MDL	105	**105**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B — ***Submission Date:*** 7/28/2005

Metals Analysis: SWA846 Methods 60100B and 7471 — ***QC Reference Sample:*** **AN12610**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN12742	EP26N2.1	7/27/2005	8/12/2005	pH Paste	**4.49**		
			8/1/2005	Arsenic	**37**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**288**	2	mg/kg
AN12743	EP26N2.2	7/27/2005	8/12/2005	pH Paste	**4.24**		
			8/1/2005	Arsenic	**14**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**335**	2	mg/kg
AN12744	EP26N2.3	7/27/2005	8/12/2005	pH Paste	**7.48**		
			8/1/2005	Arsenic	**98**	2	mg/kg
			8/1/2005	Cadmium	**7**	1	mg/kg
			8/1/2005	Lead	**114**	2	mg/kg
AN12745	EP26N2.4	7/27/2005	8/12/2005	pH Paste	**3.93**		
			8/1/2005	Arsenic	**73**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**95**	2	mg/kg
			9/8/2005	Sulfate - Leachable	**474**	5	mg/Kg
			8/24/2005	Sulfate in Soils	**1800**	500	mg/kg
AN12746	EP26E2.1	7/27/2005	8/12/2005	pH Paste	**4.17**		
			8/1/2005	Arsenic	**56**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**232**	2	mg/kg
AN12747	EP26E2.2	7/27/2005	8/12/2005	pH Paste	**4.14**		
			8/1/2005	Arsenic	**9**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**268**	2	mg/kg
AN12748	EP26E2.3	7/27/2005	8/12/2005	pH Paste	**4.12**		
			8/1/2005	Arsenic	**161**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**520**	2	mg/kg
AN12749	EP26E2.4	7/27/2005	8/12/2005	pH Paste	**3.90**		
			8/1/2005	Arsenic	**20**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**63**	2	mg/kg
AN12750	EP26E2.5	7/27/2005	8/12/2005	pH Paste	**4.00**		
			8/1/2005	Arsenic	**7**	2	mg/kg
			8/1/2005	Cadmium	**Below MDL**	1	mg/kg
			8/1/2005	Lead	**22**	2	mg/kg
			9/8/2005	Sulfate - Leachable	**304**	5	mg/Kg
			8/24/2005	Sulfate in Soils	**5100**	500	mg/kg

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN12751	EP26W2.1	7/27/2005	8/12/2005	pH Paste	4.14		
			8/1/2005	Arsenic	26	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	46	2	mg/kg
AN12752	EP26W2.2	7/27/2005	8/12/2005	pH Paste	3.74		
			8/1/2005	Arsenic	13	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	110	2	mg/kg
			9/8/2005	Sulfate - Leachable	2400	5	mg/Kg
			8/24/2005	Sulfate in Soils	12600	500	mg/kg
AN12753	EP26W2.3	7/27/2005	8/12/2005	pH Paste	3.86		
			8/1/2005	Arsenic	14	2	mg/kg
			8/1/2005	Cadmium	1	1	mg/kg
			8/1/2005	Lead	139	2	mg/kg
			9/8/2005	Sulfate - Leachable	2460	5	mg/Kg
			8/24/2005	Sulfate in Soils	57600	500	mg/kg
AN12754	EP25.1	7/27/2005	8/12/2005	pH Paste	4.33		
			8/1/2005	Arsenic	27	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	344	2	mg/kg
AN12755	EP25.2	7/27/2005	8/12/2005	pH Paste	4.26		
			8/1/2005	Arsenic	21	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	331	2	mg/kg
AN12756	EP25.3	7/27/2005	8/12/2005	pH Paste	4.41		
			8/1/2005	Arsenic	49	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	99	2	mg/kg
AN12757	EP25.4	7/27/2005	8/12/2005	pH Paste	4.27		
			8/1/2005	Arsenic	22	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	38	2	mg/kg
			9/8/2005	Sulfate - Leachable	1490	5	mg/Kg
			8/24/2005	Sulfate in Soils	2700	500	mg/kg
AN12758	EP25.5	7/27/2005	8/12/2005	pH Paste	4.18		
			8/1/2005	Arsenic	21	2	mg/kg
			8/1/2005	Cadmium	Below MDL	1	mg/kg
			8/1/2005	Lead	39	2	mg/kg
			9/8/2005	Sulfate - Leachable	2030	5	mg/Kg
			8/29/2005	Sulfate in Soils	11700	500	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/1/2005

Quality Assurance Satement for Samples: **AN12610-AN12612**
AN12742-AN12758

Original: AN12610 **Spike Sample:** AN13055 **Blank SPIKE:** AN13057

Duplicate: AN12891 **Blank Sample:** AN13056 **Reference Sample:** AN13058 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	14	6	80.00	100	102	**88**	Below MDL	98	**98**	117	111	**105**
Barium	2	164	135	19.40	100	267	**103**	Below MDL	102	**102**	205	195	**105**
Cadmium	0.5	Below MDL	Below MDL	**	100	91	**91**	Below MDL	97	**97**	109	110	**99**
Chromium	1	22	18	20.00	100	121	**99**	Below MDL	103	**103**	167	154	**108**
Mercury	0.01	0.01	0.03	-100.00	2	1.92	**96**	Below MDL	1.99	**100**	7.95	16.9	**47**
Lead	1	28	23	19.61	100	117	**89**	Below MDL	98	**98**	157	158	**99**
Selenium	2	Below MDL	Below MDL	**	100	80	**80**	Below MDL	88	**88**	83	94.4	**88**
Copper	1	26	21	21.28	100	130	**104**	Below MDL	107	**107**	120	148	**81**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 08-Sep-06

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/28/2005

QC Reference Sample: **AN16589**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN16587	GP20X 1.1	9/27/2005	9/30/2005	pH Paste	**3.47**		
			10/5/2005	Arsenic	**32**	2	mg/kg
			10/5/2005	Barium	**55**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**17**	2	mg/kg
			10/5/2005	Copper	**91**	2.0	mg/kg
			10/5/2005	Lead	**216**	2	mg/kg
			10/14/2005	Mercury	**0.02**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/6/2005	Sulfate - Leachable	**435**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**16500**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**880**		umhos/cm
AN16588	GP20X 1.2	9/27/2005	9/30/2005	pH Paste	**3.43**		
			10/5/2005	Arsenic	**56**	2	mg/kg
			10/5/2005	Barium	**106**	2	mg/kg
			10/5/2005	Cadmium	**1**	1	mg/kg
			10/5/2005	Chromium	**42**	2	mg/kg
			10/5/2005	Copper	**517**	2.0	mg/kg
			10/5/2005	Lead	**536**	2	mg/kg
			10/14/2005	Mercury	**0.05**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/6/2005	Sulfate - Leachable	**2480**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**38100**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**3370**		umhos/cm
AN16589	GP20X 1.3	9/27/2005	9/30/2005	pH Paste	**3.73**		
			10/5/2005	Arsenic	**15**	2	mg/kg
			10/5/2005	Barium	**53**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**16**	2	mg/kg
			10/5/2005	Copper	**76**	2.0	mg/kg
			10/5/2005	Lead	**58**	2	mg/kg
			10/14/2005	Mercury	**0.03**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/6/2005	Sulfate - Leachable	**832**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**1800**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**1430**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AN16590	GP20X 1.4	9/27/2005	9/30/2005	pH Paste	**3.95**		
			10/5/2005	Arsenic	**12**	2	mg/kg
			10/5/2005	Barium	**56**	2	mg/kg
			10/5/2005	Cadmium	**Below MDL**	1	mg/kg
			10/5/2005	Chromium	**16**	2	mg/kg
			10/5/2005	Copper	**51**	2.0	mg/kg
			10/5/2005	Lead	**35**	2	mg/kg
			10/14/2005	Mercury	**0.04**	0.10	mg/kg
			10/5/2005	Selenium	**Below MDL**	2	mg/kg
			10/6/2005	Sulfate - Leachable	**1500**	5	mg/Kg
			10/27/2005	Sulfate in Soils	**7200**	500	mg/kg
			9/30/2005	Soil Paste Conductivity	**2120**		umhos/cm

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/4/2005

Quality Assurance Satement for Samples: **an16437**
an16583-an16590
an16890-an16892

Original: an16589 **Spike Sample:** an16909 **Blank Spike:** an16911

Duplicate: an16908 **Blank Sample:** an16910 **Reference Sample:** an16912 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	15	13	**	100	107	**92**	Below MDL	95	**95**	118	111	**106**
Barium	2	53	55	-3.70	100	153	**100**	Below MDL	98	**98**	205	195	**105**
Cadmium	0.5	below MDL	below MDL	**	100	93	**93**	Below MDL	94	**94**	109	110	**99**
Chromium	1	16	18	-11.76	100	116	**100**	Below MDL	99	**99**	168	154	**109**
Mercury	0.01	0.03	0.04	-28.57	2	1.6	**79**	Below MDL	1.8	**90**	9.1	16.9	**54**
Lead	1	58	60	-3.39	100	156	**98**	Below MDL	94	**94**	159	158	**101**
Selenium	2	below MDL	below MDL	**	100	81	**81**	Below MDL	85	**85**	82	94.4	**87**
Copper	1	76	76	0.00	100	191	**115**	Below MDL	102	**102**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 22-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 10/12/2005

QC Reference Sample: **AN17529**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN17528	EPCS-GP13.1	10/12/2005	10/13/2005	Arsenic	**415**	2	mg/kg
			10/13/2005	Lead	**83**	3	mg/kg
AN17529	EPCS-GP13.2	10/12/2005	10/13/2005	Arsenic	**544**	2	mg/kg
			10/13/2005	Barium	**93**	2	mg/kg
			10/13/2005	Cadmium	**1**	1	mg/kg
			10/13/2005	Chromium	**154**	2	mg/kg
			10/13/2005	Copper	**173**	2.0	mg/kg
			10/13/2005	Lead	**107**	3	mg/kg
AN17530	EPCS-GP13.3	10/12/2005	10/13/2005	Arsenic	**39**	2	mg/kg
			10/13/2005	Lead	**116**	3	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 10/13/2005

Quality Assurance Satement for Samples: **an17104**
an17526-an17530

Original: an17529 **Spike Sample:** an17570 **Blank Spike:** an17572

Duplicate: an17569 **Blank Sample:** an17571 **Reference Sample:** an17573 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	544	414	27.14	100	535	***	Below MDL	96	**96**	114	111	**103**
Barium	2	93	66	33.96	100	174	**81**	Below MDL	98	**98**	198	195	**102**
Cadmium	0.5	1	below MDL	**	100	93	**93**	Below MDL	94	**94**	107	110	**97**
Chromium	1	154	117	27.31	100	222	**68**	Below MDL	98	**98**	159	154	**103**
Lead	1	107	76	33.88	100	177	**70**	Below MDL	96	**96**	158	158	**100**
Copper	1	173	138	22.51	100	243	**70**	Below MDL	103	**103**	117	148	**79**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 15-Nov-06

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 10/18/2005

QC Reference Sample: **AN18284**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN17836	EPCS-GP20.1	10/17/2005	10/19/2005	Arsenic	**37**	2	mg/kg
			10/19/2005	Barium	**33**	2	mg/kg
			10/19/2005	Cadmium	**Below MDL**	1	mg/kg
			10/19/2005	Chromium	**12**	2	mg/kg
			10/19/2005	Copper	**134**	2.0	mg/kg
			10/19/2005	Lead	**135**	2	mg/kg
			10/28/2005	Mercury	**0.025**	0.10	mg/kg
			10/19/2005	Selenium	**Below MDL**	2	mg/kg
			11/18/2005	Sulfate - Leachable	**209**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**4200**	500	mg/kg
AN17837	EPCS-GP20.2	10/17/2005	10/19/2005	Arsenic	**78**	2	mg/kg
			10/19/2005	Barium	**84**	2	mg/kg
			10/19/2005	Cadmium	**1**	1	mg/kg
			10/19/2005	Chromium	**30**	2	mg/kg
			10/19/2005	Copper	**521**	2.0	mg/kg
			10/19/2005	Lead	**329**	2	mg/kg
			10/28/2005	Mercury	**0.044**	0.10	mg/kg
			10/19/2005	Selenium	**Below MDL**	2	mg/kg
			11/18/2005	Sulfate - Leachable	**1050**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**32400**	500	mg/kg
AN17838	EPCS-GP20.3	10/17/2005	10/19/2005	Arsenic	**13**	2	mg/kg
			10/19/2005	Barium	**51**	2	mg/kg
			10/19/2005	Cadmium	**Below MDL**	1	mg/kg
			10/19/2005	Chromium	**16**	2	mg/kg
			10/19/2005	Copper	**122**	2.0	mg/kg
			10/19/2005	Lead	**37**	2	mg/kg
			10/28/2005	Mercury	**0.010**	0.10	mg/kg
			10/19/2005	Selenium	**Below MDL**	2	mg/kg
			11/18/2005	Sulfate - Leachable	**1380**	5	mg/Kg
			11/29/2005	Sulfate in Soils	**2700**	500	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/30/2006

Quality Assurance Satement for Samples: **AN18281-AN18284**
AN18461-AN18468
AN17836-AN17838
AN18014

Original: AN18284 **Spike Sample:** AN18611 **Blank Spike:** AN18613

Duplicate: AN18610 **Blank Sample:** AN18612 **Reference Sample:** AN18614 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	32	29	9.84	100	126	**94**	Below MDL	93	**93**	117	111	**105**
Barium	2	98	97	1.03	100	201	**103**	Below MDL	95	**95**	207	195	**106**
Cadmium	0.5	1	1	**	100	91	**91**	Below MDL	92	**92**	109	110	**99**
Chromium	1	28	33	-16.39	100	139	**111**	Below MDL	95	**95**	164	154	**106**
Lead	1	64	70	-8.96	100	279	**215*** **	Below MDL	93	**93**	162	158	**103**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	85	**85**	84	94.4	**89**
Copper	1	829	1090	-27.20	100	1210	*	Below MDL	99	**99**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Kennecott
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CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 10/28/2005

QC Reference Sample: **AN18284**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN18461	GP20X 2.1	10/26/2005	11/1/2005	Arsenic	**14**	2	mg/kg
			11/1/2005	Lead	**109**	2	mg/kg
AN18462	GP20X 2.2	10/26/2005	11/1/2005	Arsenic	**29**	2	mg/kg
			11/1/2005	Lead	**104**	2	mg/kg
AN18463	GP20X 2.3	10/26/2005	11/1/2005	Arsenic	**28**	2	mg/kg
			11/1/2005	Lead	**59**	2	mg/kg
AN18464	GP20X 2.4	10/26/2005	11/1/2005	Arsenic	**12**	2	mg/kg
			11/1/2005	Lead	**414**	2	mg/kg

Approved by

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/30/2006

Quality Assurance Satement for Samples: **AN18281-AN18284**
AN18461-AN18468
AN17836-AN17838
AN18014

Original: AN18284 **Spike Sample:** AN18611 **Blank Spike:** AN18613

Duplicate: AN18610 **Blank Sample:** AN18612 **Reference Sample:** AN18614 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	32	29	9.84	100	126	**94**	Below MDL	93	**93**	117	111	**105**
Barium	2	98	97	1.03	100	201	**103**	Below MDL	95	**95**	207	195	**106**
Cadmium	0.5	1	1	**	100	91	**91**	Below MDL	92	**92**	109	110	**99**
Chromium	1	28	33	-16.39	100	139	**111**	Below MDL	95	**95**	164	154	**106**
Lead	1	64	70	-8.96	100	279	**215**	Below MDL	93	**93**	162	158	**103**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	85	**85**	84	94.4	**89**
Copper	1	829	1090	-27.20	100	1210	*	Below MDL	99	**99**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 07-Sep-06

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 11/23/2005

QC Reference Sample: **AN19405**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN20046	GP12-1.1	11/22/2005	11/23/2005	pH Paste	**3.58**		
			11/28/2005	Arsenic	**26**	2	mg/kg
			11/28/2005	Lead	**149**	2	mg/kg
AN20047	GP12-1.2	11/22/2005	11/23/2005	pH Paste	**3.55**		
			11/28/2005	Arsenic	**13**	2	mg/kg
			11/28/2005	Lead	**50**	2	mg/kg
AN20048	GP12-1.3	11/22/2005	11/23/2005	pH Paste	**3.45**		
			11/28/2005	Arsenic	**18**	2	mg/kg
			11/28/2005	Lead	**40**	2	mg/kg

Approved by

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 5/26/2006

Quality Assurance Satement for Samples: **AN19390-AN19405**
AN20045-AN20048

Original: AN19405 **Spike Sample:** AN19407 **Blank Spike:** AN19409

Duplicate: AN19406 **Blank Sample:** AN19408 **Reference Sample:** AN19410 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	2550	2480	2.78	100	2520	*	Below MDL	98	**98**	117	111	**105**
Barium	2	2100	2120	-0.95	100	2070	*	Below MDL	100	**100**	206	195	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	92	**92**	Below MDL	98	**98**	110	110	**100**
Chromium	1	12	12	0.00	100	112	**100**	Below MDL	100	**100**	166	154	**108**
Mercury	0.01	0.67	0.8	-17.69	2	1.4	**37**	Below MDL	2	**100**	8.8	16.9	**52**
Lead	1	9	9	0.00	100	100	**91**	Below MDL	99	**99**	162	158	**103**
Selenium	2	3	4	**	100	92	**89**	Below MDL	91	**91**	86	94.4	**91**
Copper	1	9.4	9.6	-2.11	100	107	**98**	Below MDL	103	**103**	119	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/22/2006

QC Reference Sample: **AO10758**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO10939	GP-3A.1	6/21/2006	6/23/2006	pH Paste	**6.65**		
			6/23/2006	Arsenic	**60**	2	mg/kg
			6/23/2006	Lead	**864**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**2190**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**5100**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**2840**		umhos/cm
AO10940	GP-3A.2	6/21/2006	6/23/2006	pH Paste	**7.06**		
			6/23/2006	Arsenic	**40**	2	mg/kg
			6/23/2006	Lead	**126**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**3040**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**10500**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**3450**		umhos/cm
AO10941	GP-7A.1	6/21/2006	6/23/2006	pH Paste	**3.95**		
			6/23/2006	Arsenic	**41**	2	mg/kg
			6/23/2006	Lead	**100**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**3670**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**3900**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**4050**		umhos/cm
AO10942	GP-7A.2	6/21/2006	6/23/2006	pH Paste	**3.91**		
			6/23/2006	Arsenic	**36**	2	mg/kg
			6/23/2006	Lead	**74**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**2040**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4200**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**2780**		umhos/cm
AO10943	GP-7A.3	6/21/2006	6/23/2006	pH Paste	**4.02**		
			6/23/2006	Arsenic	**15**	2	mg/kg
			6/23/2006	Lead	**49**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**946**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1500**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**1430**		umhos/cm
AO10944	GP-7A.4	6/21/2006	6/23/2006	pH Paste	**4.21**		
			6/23/2006	Arsenic	**11**	2	mg/kg
			6/23/2006	Lead	**92**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**460**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1200**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**790**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/3/2006

Quality Assurance Satement for Samples: **AO10745-AO10758**
AO10939-AO10944

Original: AO10758 **Spike Sample:** AO11194 **Blank Spike:** AO11196

Duplicate: AO11193 **Blank Sample:** AO11195 **Reference Sample:** AO11197 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	19	21	-10.00	100	114	**95**	Below MDL	91	**91**	243	257	**95**
Lead	1	123	130	-5.53	100	226	**103**	Below MDL	91	**91**	155	166	**93**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

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Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 21-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/22/2006

QC Reference Sample: **AO10964**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO10945	GP-7A.5	6/21/2006	6/23/2006	pH Paste	**4.26**		
			6/26/2006	Arsenic	**15**	2	mg/kg
			6/26/2006	Lead	**62**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**692**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1200**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**1240**		umhos/cm
AO10946	GP-7A.6	6/21/2006	6/23/2006	pH Paste	**3.98**		
			6/26/2006	Arsenic	**30**	2	mg/kg
			6/26/2006	Lead	**150**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**1470**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**2700**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**2170**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/22/2006

QC Reference Sample: **AO10964**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO10947	GP-7A.7	6/21/2006	6/23/2006	pH Paste	**4.27**		
			6/26/2006	Arsenic	**28**	2	mg/kg
			6/26/2006	Lead	**78**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**683**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1500**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**1210**		umhos/cm
AO10948	GP-7B.1	6/21/2006	6/23/2006	pH Paste	**3.93**		
			6/26/2006	Arsenic	**32**	2	mg/kg
			6/26/2006	Lead	**177**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**2340**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**8100**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**3280**		umhos/cm
AO10949	GP-7B.2	6/21/2006	6/23/2006	pH Paste	**3.86**		
			6/26/2006	Arsenic	**32**	2	mg/kg
			6/26/2006	Lead	**159**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**4040**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**12300**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**4650**		umhos/cm
AO10950	GP-7B.3	6/21/2006	6/23/2006	pH Paste	**5.15**		
			6/26/2006	Arsenic	**20**	2	mg/kg
			6/26/2006	Lead	**134**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**2720**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**6000**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**3800**		umhos/cm
AO10951	GP-7B.4	6/21/2006	6/23/2006	pH Paste	**3.82**		
			6/26/2006	Arsenic	**24**	2	mg/kg
			6/26/2006	Lead	**82**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**4400**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**5400**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**5150**		umhos/cm
AO10952	GP-7B.5	6/21/2006	6/23/2006	pH Paste	**3.74**		
			6/26/2006	Arsenic	**27**	2	mg/kg
			6/26/2006	Lead	**125**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**5000**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**5100**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**5380**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO10953	GP-7B.6	6/21/2006	6/23/2006	pH Paste	**3.74**		
			6/26/2006	Arsenic	**24**	2	mg/kg
			6/26/2006	Lead	**86**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**4490**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**3300**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**5300**		umhos/cm
AO10954	GP-7B.7	6/21/2006	6/23/2006	pH Paste	**3.81**		
			6/26/2006	Arsenic	**30**	2	mg/kg
			6/26/2006	Lead	**152**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**4010**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4500**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**4830**		umhos/cm
AO10955	GP-7B.8	6/21/2006	6/23/2006	pH Paste	**3.61**		
			6/26/2006	Arsenic	**134**	2	mg/kg
			6/26/2006	Lead	**319**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**4530**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**12900**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**5240**		umhos/cm
AO10956	GP-7B.9	6/21/2006	6/23/2006	pH Paste	**3.72**		
			6/26/2006	Arsenic	**53**	2	mg/kg
			6/26/2006	Lead	**116**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**1330**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4800**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**2140**		umhos/cm
AO10957	GP -7B.10	6/21/2006	6/23/2006	pH Paste	**3.90**		
			6/26/2006	Arsenic	**15**	2	mg/kg
			6/26/2006	Lead	**122**	3	mg/kg
			7/13/2006	Sulfate - Leachable	**728**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4500**	500	mg/kg
			6/23/2006	Soil Paste Conductivity	**1340**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/3/2006

Quality Assurance Satement for Samples: **ao10945-ao10964**

Original: ao10964 **Spike Sample:** ao11203 **Blank Spike:** ao11205

Duplicate: ao11202 **Blank Sample:** ao11204 **Reference Sample:** ao11206 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	14	15	-6.90	100	107	**93**	Below MDL	93	**93**	253	257	**98**
Lead	1	197	208	-5.43	100	293	**96**	Below MDL	93	**93**	162	166	**98**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 6/30/2006

QC Reference Sample: **AO10108**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO11654	GP-7C.1	6/29/2006	7/6/2006	pH Paste	**3.81**		
			7/3/2006	Arsenic	**41**	2	mg/kg
			7/3/2006	Lead	**173**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**2970**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**9300**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**4080**		umhos/cm
AO11655	GP-7C.2	6/29/2006	7/6/2006	pH Paste	**3.89**		
			7/3/2006	Arsenic	**19**	2	mg/kg
			7/3/2006	Lead	**64**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**2580**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**9000**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**3420**		umhos/cm
AO11656	GP-7C.3	6/29/2006	7/6/2006	pH Paste	**3.74**		
			7/3/2006	Arsenic	**37**	2	mg/kg
			7/3/2006	Lead	**135**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**2910**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**5700**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**3900**		umhos/cm
AO11657	GP-7C.4	6/29/2006	7/6/2006	pH Paste	**3.64**		
			7/3/2006	Arsenic	**39**	2	mg/kg
			7/3/2006	Lead	**103**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**3300**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**3300**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**4360**		umhos/cm
AO11658	GP-7C.5	6/29/2006	7/6/2006	pH Paste	**3.64**		
			7/3/2006	Arsenic	**26**	2	mg/kg
			7/3/2006	Lead	**131**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**3270**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**3300**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**4340**		umhos/cm
AO11659	GP-7C.6	6/29/2006	7/6/2006	pH Paste	**3.71**		
			7/3/2006	Arsenic	**6**	2	mg/kg
			7/3/2006	Lead	**24**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**2610**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**2100**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**3500**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO11660	GP-7C.7	6/29/2006	7/6/2006	pH Paste	**3.67**		
			7/3/2006	Arsenic	**17**	2	mg/kg
			7/3/2006	Lead	**97**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**2860**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**2400**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**3700**		umhos/cm
AO11661	GP-7C.8	6/29/2006	7/6/2006	pH Paste	**3.77**		
			7/3/2006	Arsenic	**45**	2	mg/kg
			7/3/2006	Lead	**131**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**795**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**2100**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**1540**		umhos/cm
AO11662	GP-7C.9	6/29/2006	7/6/2006	pH Paste	**3.89**		
			7/3/2006	Arsenic	**8**	2	mg/kg
			7/3/2006	Lead	**59**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**439**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1200**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**940**		umhos/cm
AO11663	GP-7C.10	6/29/2006	7/6/2006	pH Paste	**3.63**		
			7/3/2006	Arsenic	**15**	2	mg/kg
			7/3/2006	Lead	**241**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**3100**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4500**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**3720**		umhos/cm
AO11664	EP062906.1	6/29/2006	7/6/2006	pH Paste	**4.19**		
			7/3/2006	Arsenic	**11**	2	mg/kg
			7/3/2006	Lead	**42**	3	mg/kg
			9/1/2006	Sulfate - Leachable	**1460**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**1600**	500	mg/kg
			7/6/2006	Soil Paste Conductivity	**2290**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/14/2006

Quality Assurance Satement for Samples: **ao11654-ao11664**
ao09844-ao09849
ao010106-ao10108

Original: ao10108 **Spike Sample:** ao11714 **Blank Spike:** ao11716

Duplicate: ao11713 **Blank Sample:** ao11715 **Reference Sample:** ao11717 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	343	344	-0.29	100	437	**94**	Below MDL	92	**92**	239	257	**93**
Cadmium	0.5	Below MDL	Below MDL	**	100	79	**79**	Below MDL	89	**89**	104	117	**89**
Lead	1	74	74	0.00	100	160	**86**	Below MDL	91	**91**	153	166	**92**
Copper	1	3900	3950	-1.27	100	4020	**120**	Below MDL	164	**164**	142	100	**142**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 04-Apr-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 7/12/2006

QC Reference Sample: **AO11124**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12281	GP-7C-11	7/6/2006	7/25/2006	pH Paste	**3.96**		
			7/12/2006	Arsenic	**30**	2	mg/kg
			7/12/2006	Lead	**147**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1460**	5	mg/Kg
			7/24/2006	Sulfate in Soils	**4500**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**2310**		umhos/cm

Approved by

Melissa Olsen

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/14/2006

Quality Assurance Satement for Samples: **ao11124-ao11143**
ao12281

Original: ao11124 **Spike Sample:** ao12163 **Blank Spike:** ao12165

Duplicate: ao12162 **Blank Sample:** ao12164 **Reference Sample:** ao12166 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	24	26	-8.00	100	117	**93**	Below MDL	92	**92**	246	257	**96**
Lead	1	175	190	-8.22	100	275	**100**	Below MDL	94	**94**	160	166	**96**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 7/24/2006

QC Reference Sample: **AO12856**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12860	GP-7D.1	7/21/2006	7/25/2006	pH Paste	**3.88**		
			7/26/2006	Arsenic	**62**	2	mg/kg
			7/26/2006	Lead	**329**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2980**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**14400**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**3370**		umhos/cm
AO12861	GP-7D.2	7/21/2006	7/25/2006	pH Paste	**3.98**		
			7/26/2006	Arsenic	**10**	2	mg/kg
			7/26/2006	Lead	**65**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**856**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**4500**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**1430**		umhos/cm
AO12862	GP-7D.3	7/21/2006	7/25/2006	pH Paste	**3.89**		
			7/26/2006	Arsenic	**13**	2	mg/kg
			7/26/2006	Lead	**104**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2820**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**5700**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**3520**		umhos/cm
AO12863	GP-7D.4	7/21/2006	7/25/2006	pH Paste	**3.64**		
			7/26/2006	Arsenic	**38**	2	mg/kg
			7/26/2006	Lead	**139**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**4020**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**3300**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4800**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/25/2006

Quality Assurance Satement for Samples: **AO12852-AO12863**

Original: AO12856 **Spike Sample:** AO12895 **Blank Spike:** AO12897

Duplicate: AO12894 **Blank Sample:** AO12896 **Reference Sample:** AO12898 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	42	45	-6.90	100	144	**91**	Below MDL	98	**98**	271	257	**105**
Barium	2	181	181	0.00	100	290	**109**	Below MDL	102	**102**	514	472	**109**
Cadmium	0.5	3	3	**	100	96	**84**	Below MDL	96	**96**	125	117	**107**
Chromium	1	31	29	6.67	100	130	**99**	Below MDL	101	**101**	78	73	**107**
Mercury	0.01	Below MDL	Below MDL	**	2	2	**100**	Below MDL	2.2	**110**	4.4	16.9	**26*** **
Lead	1	1770	1980	-11.20	100	2360	*	Below MDL	98	**98**	172	166	**104**
Selenium	2	Below MDL	Below MDL	**	100		**79**	Below MDL	87	**87**	157	173	**91**
Copper	1	143	135	5.76	100	248	**105**	Below MDL	118	**118**	130	100	**130**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Date: 22-Mar-07

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Submission Date: 7/24/2006

Metals Analysis: ***SWA846 Methods 60100B and 7471***

QC Reference Sample: **AO12874**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12864	GP-7D.5	7/21/2006	7/25/2006	pH Paste	**3.65**		
			7/26/2006	Arsenic	**17**	2	mg/kg
			7/26/2006	Lead	**80**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3710**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1800**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4690**		umhos/cm
AO12865	GP-7D.6	7/21/2006	7/25/2006	pH Paste	**3.76**		
			7/26/2006	Arsenic	**19**	2	mg/kg
			7/26/2006	Lead	**185**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1340**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1500**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**2250**		umhos/cm
AO12866	GP-7D.7	7/21/2006	7/25/2006	pH Paste	**3.60**		
			7/26/2006	Arsenic	**53**	2	mg/kg
			7/26/2006	Lead	**541**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3540**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2100**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4360**		umhos/cm
AO12867	GP-7D.8	7/21/2006	7/25/2006	pH Paste	**3.55**		
			7/26/2006	Arsenic	**14**	2	mg/kg
			7/26/2006	Lead	**80**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**4490**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2700**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**5480**		umhos/cm
AO12868	GP-7D.9	7/21/2006	7/25/2006	pH Paste	**3.57**		
			7/26/2006	Arsenic	**92**	2	mg/kg
			7/26/2006	Lead	**438**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3870**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**15900**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**4710**		umhos/cm
AO12869	GP-7D.10	7/21/2006	7/25/2006	pH Paste	**3.61**		
			7/26/2006	Arsenic	**44**	2	mg/kg
			7/26/2006	Lead	**88**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2100**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**9600**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**2870**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO12870	GP-7D.11	7/21/2006	7/25/2006	pH Paste	**3.76**		
			7/26/2006	Arsenic	**16**	2	mg/kg
			7/26/2006	Lead	**82**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**873**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2700**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**1690**		umhos/cm
AO12871	GP-7D.12	7/21/2006	7/25/2006	pH Paste	**3.95**		
			7/26/2006	Arsenic	**13**	2	mg/kg
			7/26/2006	Lead	**46**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**643**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**900**	500	mg/kg
			7/25/2006	Soil Paste Conductivity	**1260**		umhos/cm

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/25/2006

Quality Assurance Satement for Samples: **AO12864-AO12874**

Original: AO12874 **Spike Sample:** AO12904 **Blank Spike:** AO12906

Duplicate: AO12903 **Blank Sample:** AO12905 **Reference Sample:** AO12907 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	36	30	18.18	100	136	**100**	Below MDL	103	**103**	272	257	**106**
Lead	1	160	178	-10.65	100	266	**106**	Below MDL	101	**101**	172	166	**104**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To:

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 7/27/2006

QC Reference Sample: **AO13150**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12989	GP-7D.7(WAS AO12866)	7/21/2006	7/28/2006	pH Paste	**3.66**		
			7/28/2006	Arsenic	**14**	2	mg/kg
			7/28/2006	Barium	**109**	2	mg/kg
			7/28/2006	Cadmium	**Below MDL**	1	mg/kg
			7/28/2006	Chromium	**26**	2	mg/kg
			7/28/2006	Copper	**458**	2.0	mg/kg
			7/28/2006	Lead	**312**	3	mg/kg
			7/28/2006	Selenium	**Below MDL**	2	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 7/31/2006

Quality Assurance Satement for Samples: **AO12987-AO12990**
AO13150

Original: AO13150 **Spike Sample:** AO13172 **Blank Spike:** AO13174

Duplicate: AO13171 **Blank Sample:** AO13173 **Reference Sample:** AO13175 0017-17-13

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	88	86	2.30	100	178	**90**	Below MDL	98	**98**	135	102	**132**
Arsenic	2	94	94	0.00	100	184	**90**	Below MDL	98	**98**	264	257	**103**
Barium	2	450	451	-0.22	100	539	**89**	Below MDL	99	**99**	510	472	**108**
Cadmium	0.5	65	65	0.00	100	152	**87**	Below MDL	96	**96**	129	117	**110**
Chromium	1	105	105	0.00	100	200	**95**	Below MDL	99	**99**	79	73	**108**
Mercury	0.01	4.67	4.73	-1.28	4	8.57	**98**	Below MDL	8.57	**214**	4.79	16.9	**28**
Lead	1	93	92	1.08	100	185	**92**	Below MDL	98	**98**	173	166	**104**
Selenium	2	146	147	-0.68	100	209	**63**	Below MDL	86	**86**	160	173	**92**
Copper	1	130	122	6.35	100	223	**93**	Below MDL	100	**100**	113	100	**113**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/3/2006

QC Reference Sample: **AO13326**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13510	GP-7E.1	8/2/2006	8/4/2006	pH Paste	**4.07**		
			8/8/2006	Arsenic	**34**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**110**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3080**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**3600**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**3850**		umhos/cm
AO13511	GP-7E.2	8/2/2006	8/4/2006	pH Paste	**4.08**		
			8/8/2006	Arsenic	**10**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**59**	3	mg/kg
			8/18/2006	Sulfate - Leachable	**49**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2100**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**3700**		umhos/cm
AO13512	GP-7E.3	8/2/2006	8/4/2006	pH Paste	**4.03**		
			8/8/2006	Arsenic	**21**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**80**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3230**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**3600**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**3780**		umhos/cm
AO13513	GP-7E.4	8/2/2006	8/4/2006	pH Paste	**3.96**		
			8/8/2006	Arsenic	**18**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**91**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3340**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2600**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**4360**		umhos/cm
AO13514	GP-7E.5	8/2/2006	8/4/2006	pH Paste	**3.98**		
			8/8/2006	Arsenic	**11**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**63**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3260**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1200**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**4290**		umhos/cm
AO13515	GP-7E.6	8/2/2006	8/4/2006	pH Paste	**4.08**		
			8/8/2006	Arsenic	**9**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**158**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**809**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1500**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**1600**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units
AO13516	GP-7E.7	8/2/2006	8/4/2006	pH Paste	**3.85**		
			8/8/2006	Arsenic	**8**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**84**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3760**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1200**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**4770**		umhos/cm
AO13517	GP-7E.8	8/2/2006	8/4/2006	pH Paste	**4.00**		
			8/8/2006	Arsenic	**33**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**469**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1110**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**9300**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**1980**		umhos/cm
AO13518	GP-7E.9	8/2/2006	8/4/2006	pH Paste	**4.11**		
			8/8/2006	Arsenic	**16**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**545**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**530**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1800**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**1180**		umhos/cm
AO13519	GP-7B1.1	8/2/2006	8/4/2006	pH Paste	**3.73**		
			8/8/2006	Arsenic	**14**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**287**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1610**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**3300**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**2590**		umhos/cm
AO13520	GP-7B1.2	8/2/2006	8/4/2006	pH Paste	**3.74**		
			8/8/2006	Arsenic	**46**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**103**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2320**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**14700**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**3170**		umhos/cm
AO13521	GP-7B2.1	8/2/2006	8/4/2006	pH Paste	**3.88**		
			8/8/2006	Arsenic	**17**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**48**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2670**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1200**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**3800**		umhos/cm
AO13522	GP-7B2.2	8/2/2006	8/4/2006	pH Paste	**3.84**		
			8/8/2006	Arsenic	**123**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**236**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2920**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**12000**	500	mg/kg
			8/4/2006	Soil Paste Conductivity	**4070**		umhos/cm

Lab No.	Sample Description	Collection Date	Analysis Date	Analyte	Result	Reporting Limits	Units

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
REL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/4/2006

Quality Assurance Satement for Samples: **AO13320-AO13326**
AO13510-AO13522

Original: AO13326 **Spike Sample:** AO13605 **Blank Spike:** AO13607

Duplicate: AO13604 **Blank Sample:** AO13606 **Reference Sample:** AO13606 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	99	102	-2.99	100	189	**90**	Below MDL	97	**97**	154	142	**108**
Barium	2	153	149	2.65	100	237	**84**	Below MDL	100	**100**	245	224	**109**
Cadmium	0.5	2	2	0.00	100	94	**92**	Below MDL	96	**96**	67	64.5	**104**
Chromium	1	20	18	10.53	100	116	**96**	Below MDL	99	**99**	95	86.5	**110**
Lead	1	3030	3150	-3.88	100	2980	*	3	100	**97**	99	93.6	**106**
Selenium	2	Below MDL	Below MDL	**	100	68	**68**	Below MDL	84	**84**	107	124	**86**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 22-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/3/2006

QC Reference Sample: **AO13529**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13523	GP-7B3.1	8/2/2006	8/9/2006	pH Paste	**4.21**		
			8/8/2006	Arsenic	**22**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**64**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**807**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**300**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**1460**		umhos/cm
AO13524	GP-7B3.2	8/2/2006	8/9/2006	pH Paste	**3.98**		
			8/8/2006	Arsenic	**50**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**91**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**1660**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**2400**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**2580**		umhos/cm
AO13525	GP-7B4.1	8/2/2006	8/9/2006	pH Paste	**3.75**		
			8/8/2006	Arsenic	**20**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**136**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**3350**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**1500**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**4440**		umhos/cm
AO13526	GP-7B4.2	8/2/2006	8/9/2006	pH Paste	**3.75**		
			8/8/2006	Arsenic	**240**	2	mg/kg
			8/8/2006	Cadmium	**Below MDL**	1	mg/kg
			8/8/2006	Lead	**92**	3	mg/kg
			9/12/2006	Sulfate - Leachable	**2360**	5	mg/Kg
			8/25/2006	Sulfate in Soils	**12000**	500	mg/kg
			8/9/2006	Soil Paste Conductivity	**3300**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/8/2006

Quality Assurance Satement for Samples: **AO13523-AO13529**

Original: AO13529 **Spike Sample:** AO13720 **Blank Spike:** AO13722

Duplicate: AO13719 **Blank Sample:** AO13721 **Reference Sample:** AO13723 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	30	30	0.00	100	122	**92**	Below MDL	95	**95**	148	142	**104**
Cadmium	0.5	Below MDL	Below MDL	**	100	93	**93**	Below MDL	94	**94**	64	64.5	**99**
Lead	1	145	142	2.09	100	238	**93**	Below MDL	94	**94**	96	93.6	**103**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 9/22/2006

QC Reference Sample: **ao16210**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO16214	GP-7B.5	9/21/2006	9/25/2006	pH Paste	**3.97**		
			9/25/2006	Arsenic	**13**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**128**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**2040**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**2700**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**2700**		umhos/cm
AO16215	GP-7B.6	9/21/2006	9/25/2006	pH Paste	**4.03**		
			9/25/2006	Arsenic	**10**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**42**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**1290**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**2400**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**1980**		umhos/cm
AO16216	GP-7B.7	9/21/2006	9/25/2006	pH Paste	**3.99**		
			9/25/2006	Arsenic	**3**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**78**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**627**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**2400**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**1250**		umhos/cm
AO16217	GP-7B.8	9/21/2006	9/25/2006	pH Paste	**3.91**		
			9/25/2006	Arsenic	**21**	2	mg/kg
			9/25/2006	Cadmium	**Below MDL**	1	mg/kg
			9/25/2006	Lead	**135**	3	mg/kg
			10/17/2006	Sulfate - Leachable	**3370**	5	mg/Kg
			10/16/2006	Sulfate in Soils	**9300**	500	mg/kg
			9/25/2006	Soil Paste Conductivity	**4190**		umhos/cm

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 9/25/2006

Quality Assurance Satement for Samples: **AO15655, AO16210-AO16217**

Original: AO16210 **Spike Sample:** AO16284 **Blank Spike:** AO16286

Duplicate: AO16283 **Blank Sample:** AO16285 **Reference Sample:** AO16287 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	13	10	26.09	100	105	**92**	Below MDL	88	**88**	141	142	**99**
Cadmium	0.5	Below MDL	Below MDL	**	100	90	**90**	Below MDL	91	**91**	60	64.5	**93**
Lead	1	69	53	26.23	100	137	**68**	Below MDL	91	**91**	88	93.6	**94**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Laboratory Analytical Certificates and QA Statements

Split Samples

Kennecott
Utah Copper

Kennecott Environmental Laboratory
Certificate of Analysis

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 1/6/2004

1 [illegible]HUD ARDON

Sample Preparation: SW846 Method 3050B
Analysis Method: SW846 Method 6010B

Submission Date: 12/9/2003
Matrix: Soil
QC Sample: AL29401

ıb Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
L29400	EPX-13 (AL26993)	11/5/03	12/15/03				
				Arsenic	15	2	mg/kg
				Soil Paste Condı	3090		umhos/cm
				Lead	51	0.05	mg/kg
				pH Paste	8.10		
				Sulfate - Leachal	2720	5	mg/Kg
				Sulfate in Soils	2800	500	mg/kg
L29401	EPX-19 (AL28593)	11/21/03	12/16/03				
				Silver	Below MDL	1	mg/kg
				Arsenic	12	2	mg/kg
				Barium	131	2	mg/kg
				Cadmium	Below CRDL	0.5	mg/kg
				Soil Paste Condı	3490		umhos/cm
				Chromium	76	1.0	mg/kg
				Copper	99	1.0	mg/kg
				Lead	49	0.05	mg/kg
				pH Paste	8.17		
				Selenium	2	2	mg/kg
				Sulfate - Leachal	3050	5	mg/Kg
				Sulfate in Soils	14400	500	mg/kg

[illegible]ved by:

Approved By: Lynn A. [illegible]
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 12/12/2003

Quality Assurance Statement for Sample: **AL29401**

Original: AL29401 **Duplicate:** AL29692 **Blank Sample:** AL29694

Spike Sample: AL29693 **Spike Blank Sample:** AL29695

Analyte	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery
Silver	Below MDL	Below MDL	**	100	96	**96**	Below MDL	91	**91**
Arsenic	12	12	0.00	100	110	**98**	Below MDL	92	**92**
Barium	131	135	-3.01	100	236	**105**	Below MDL	94	**94**
Cadmium	Below MDL	Below MDL	**	100	93	**93**	Below MDL	91	**91**
Chromium	77	76	1.31	100	172	**95**	Below MDL	93	**93**
Lead	50	49	2.02	100	145	**95**	Below MDL	92	**92**
Selenium	3	2	**	100	90	**90**	Below MDL	78	**78**

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Log-in Group No. 1 1320

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AL29400	EPX-13 (AL26993)										- Spilt, crush -65mesh
2	401	EPX-19 (AL28593)										, Total Pb & As
3												PH- Paste
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: _____ **Telephone #** _____ **Fax #** _____
Report Results to : Ehud Arzon **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: AEH Date/Time: 12/9/03
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ıll Free (888) 263-8686
Fax (801) 263-8687
ıil: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: November 5, 2003
Project: EVAP PONDS

Contact: Larry Elkin
Date Received: January 23, 2004

Lab Sample ID:
L58652-01A

Field Sample ID:
EPX-13

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	1/30/2004 2:52:56 PM	6020	0.50	**12**
Lead	mg/kg-wet	1/30/2004 2:52:56 PM	6020	0.50	**48**

Released by: _____
Laboratory Supervisor

Report Date: February 3, 2004

ıll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This eport is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection vith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only ın contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
oratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: November 21, 2003
Project: EVAP PONDS

Contact: Larry Elkin
Date Received: January 23, 2004

Lab Sample ID:
L58652-02A

Field Sample ID:
EPX-19

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	1/30/2004 3:20:00 PM	6020	0.50	**12**
Lead	mg/kg-wet	1/30/2004 3:20:00 PM	6020	0.50	**53**

Released by: _____
Laboratory Supervisor

Report Date: February 3, 2004

ll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This eport is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection vith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only n contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: November 5, 2003
Project: EVAP PONDS

Contact: Larry Elkin
Date Received: January 23, 2004

Lab Sample ID:
L58652-01

Field Sample ID:
EPX-13

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH	pH Units	01/23/04 3:45 pm	9045C	0	**8.24 *^**

* Sample had expired upon receipt.
^ The sample pH was measured in water at 25 degrees Celcius

(801) 263-8686
ıll Free (888) 263-8686
Fax (801) 263-8687
ıil: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: _____
Laboratory Supervisor

Report Date: February 3, 2004

ıll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This eport is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection vith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only ın contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: November 21, 2003
Project: EVAP PONDS

Contact: Larry Elkin
Date Received: January 23, 2004

Lab Sample ID:
L58652-02

Field Sample ID:
EPX-19

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH	pH Units	01/23/04 3:45 pm	9045C	0	**8.26** *^

* Sample had expired upon receipt.
^ The sample pH was measured in water at 25 degrees Celcius

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
oratory Director

Peggy McNicol
QA Officer

Released by:
Laboratory Supervisor

Report Date: February 3, 2004

ll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This eport is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection vith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only n contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

American West Analytical Labs

WORK ORDER Summary

23-Jan-04

Work Order L58652

Client ID: NOR100

Project: EVAP PONDS **QC Level:** QC 1 Hold

Comments: Please fax results to Larry Elkin @ 569-6854. Footnote report, pH received out of hold.

eh

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage
L58652-01A	EPX-13	11/5/2003 10:30:00 AM	1/23/2004	2/6/2004	Soil	3051A-ICPMS	df/jan 23
				2/6/2004		6020-S	df/jan 23
				2/6/2004		PH-S	df/jan 23
				2/6/2004		Soil_Prep	df/jan 23
L58652-02A	EPX-19	11/21/2003 12:00:00 PM		2/6/2004		3051A-ICPMS	df/jan 23
				2/6/2004		6020-S	df/jan 23
				2/6/2004		PH-S	df/jan 23
				2/6/2004		Soil_Prep	df/jan 23

1

58652

Client NORTH AMERICAN MINES SERVICES
Address 472 NORTH MAIN ST
KAYSVILLE, UTAH 84037
City State Zip

Phone 569-7869 Fax 569-6854
Sampler Name LARRY ELKIN
Contact
Project Name EVAP PONDS
Project Number/P.O.#

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah
84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687

CHAIN OF CUSTODY

Lab Sample Set # 5[illegible]52
Page _____ of _____

Circle One:
TAT 1 2 3 5 day (S)
QC 1 2 2+ 3 3+ 4

Lab ID	Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Dry \ Wet Weight	TOTAL PB	TOTAL AS	PASTE pH 9045	9045C						COMMENTS
	EPX-13	11-5-03 (10:30)		1		/	/	/							3050/6010
	EPX-19	11-21-03 (12:00)		1		/	/	/							

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature _____
4 Received Broken/Leaking (Improperly Sealed)
Y (N)
Notes:
5 Properly Preserved
(Y) N
Notes:
6 Received Within Holding Times
(Y) N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record?
Y (N)
Notes:

Relinquished By: Signature	Date
Larry Elkin	1/23/04
PRINT NAME LARRY ELKIN	Time 14:39
Received By: Signature Elena Hayward	Date 1/23/04
PRINT NAME Elena Hayward	Time 1440

Relinquished By: Signature	Date
PRINT NAME	Time
Received By: Signature	Date
PRINT NAME	Time

Relinquished By: Signature	Date
PRINT NAME	Time
Received By: Signature	Date
PRINT NAME	Time

Relinquished By: Signature	Date
PRINT NAME	Time
Received By: Signature	Date
PRINT NAME	Time

Special Instructions:
FAX RESULTS TO LARRY ELKIN AT FAX # 569-6854

Kennecott
Utah Copper

Kennecott Environmental Laboratory
Certificate of Analysis

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/1/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 4/27/2004
Matrix: Soil
QC Sample AM08500
Total Metal

Lab Number	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM08500	EPX-45 SPLIT (AM07654)						
		4/13/04	4/29/04	Arsenic	18	2	mg/kg
		4/13/04	4/28/04	Soil Paste Conductivity	2440		umhos/cm
		4/13/04	4/29/04	Lead	46	0.05	mg/kg
		4/13/04	4/28/04	pH Paste	7.87		
		4/13/04	4/28/04	Sulfate - Leachable	2020	5	mg/Kg
		4/13/04	5/19/04	Sulfate in Soils	25200	500	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 4/29/2004

Quality Assurance Statement for Sample: **AM08500**

Original: AM08500 **Spike Sample:** AM08662 **Blank Sample:** AM08664

Duplicate: AM08661 **Blank Sample:** AM08663 **Reference Sample:** AM08665 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	18	17	5.71	100	120	**102**	Below MDL	99	**99**	138	129	107
Lead	1	46	45	2.20	100	138	**93**	Below MDL	100	**106**	57.7	61	95

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Log-in Group No. 04 -0828

KENNECOTT
ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AM08500	EPX - 45	4/13/04	1:50								AM07654
2												
3												
4												
5												Split
6												
7												
8												pH, COND, As, Pb, SO4-SUD,
9												SO4-LEA
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: _____ **Telephone #** _____ **Fax #** _____
Report Results to : EHUD AIZDON **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: AGH Date/Time: 4/27/04
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

Kennecott
Utah Copper

Kennecott Environmental Laboratory
Certificate of Analysis

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

Date 6/15/2004

EHUD ARDON

Sample Preparation: SW846 Method 3050B

Sample Analysis: SW846 Method 6010

Submission Date: 5/7/2004
Matrix: Soil
QC Sample AM09282
Total Metal

Lab Number	*Description*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AM09282	EPX-46 (AM08602)						
		4/22/04	5/10/04	Silver	2	1	mg/kg
		4/22/04	5/10/04	Arsenic	16	2	mg/kg
		4/22/04	5/10/04	Barium	75	2	mg/kg
		4/22/04	5/10/04	Cadmium	0.7	0.5	mg/kg
		4/22/04	5/12/04	Soil Paste Conductivity	2920		umhos/cm
		4/22/04	5/10/04	Chromium	76	1.0	mg/kg
		4/22/04	5/10/04	Copper	126	1.0	mg/kg
		4/22/04	5/10/04	Lead	50	0.05	mg/kg
		4/22/04	5/12/04	pH Paste	7.09		
		4/22/04	5/10/04	Selenium	Below MDL	2	mg/kg
		4/22/04	5/12/04	Sulfate - Leachable	2130	5	mg/Kg
		4/22/04	5/19/04	Sulfate in Soils	13800	500	mg/kg

roved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Submission Date: 5/10/2004

Quality Assurance Statement for Sample: **AM09282**

Original: AM09282 **Spike Sample:** AM09367 **Blank Sample:** AM09369

Duplicate: AM09366 **Blank Sample:** AM09368 **Reference Sample:** AM09370 0017-15-02

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	16	15	6.45	100	112	**96**	Below MDL	99	**99**	136	129	105
Lead	1	50	46	8.33	100	138	**92**	Below MDL	93	**106**	54	61	89

* = Sample concentration is 10 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Log-In Group No. 05 1115

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	AM09232	EPX-46	4/22/04	2:30								-SPLIT
2												
3												(AM08602)
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: _____ **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: ACH Date/Time: 5/7/04
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 13, 2004
Project: Daybreak - Evap. Ponds / COC #4268

Contact: Ehud Ardon
Date Received: May 17, 2004

Lab Sample ID: L60353-01A

Field Sample ID: EPX-45

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	5/24/2004 12:40:31 PM	6020	0.50	**15**
Lead	mg/kg-wet	5/24/2004 12:40:31 PM	6020	0.50	**46**

Released by: _____
Laboratory Supervisor

Report Date: May 25, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 22, 2004
Project: Daybreak - Evap. Ponds / COC #4268

Contact: Ehud Ardon
Date Received: May 17, 2004

Lab Sample ID: L60353-02A

Field Sample ID: EPX-46

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	5/24/2004 12:57:52 PM	6020	0.50	**11**
Lead	mg/kg-wet	5/24/2004 12:57:52 PM	6020	0.50	**45**

Released by: _____
Laboratory Supervisor

Report Date: May 25, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 13, 2004
Project: Daybreak - Evap. Ponds / COC #4268

Contact: Ehud Ardon
Date Received: May 17, 2004

Lab Sample ID: L60353-01

Field Sample ID: EPX-45

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
Conductivity	µmhos/cm	05/19/04	9050A	10	**3,000** *[1]
pH	pH Units	05/17/04 4:50 pm	9045C	0	**7.80** *~

[1]Analysis is performed on a 1:1 DI water extract for soils.
* Sample had expired upon receipt.
~ The sample pH was measured in water at 25 degrees Celcius

Released by: _____
Laboratory Supervisor

Report Date: May 25, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
e-mail: awal@awal-Labs.com

Client: North American Exploration, Inc.
Date Sampled: April 22, 2004
Project: Daybreak - Evap. Ponds / COC #4268

Contact: Ehud Ardon
Date Received: May 17, 2004

Lab Sample ID: L60353-02

Field Sample ID: EPX-46

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
Conductivity	µmhos/cm	05/19/04	9050A	10	**3,300 [1]**
pH	pH Units	05/17/04 4:50 pm	9045C	0	**8.27 *~**

[1]Analysis is performed on a 1:1 DI water extract for soils.
* Sample had expired upon receipt.
~ The sample pH was measured in water at 25 degrees Celcius

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: _____
Laboratory Supervisor

Report Date: May 25, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

American West Analytical Labs

WORK ORDER Summary

18-May-04

Work Order L60353

Client ID: NOR100

Project: Daybreak - Evap. Ponds / COC #4268 **QC Level:** QC 1 HOK 5

Comments: Conductivity received outside of hold on sample #1, pH on both, footnote report.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage
L60353-01A	EPX-45	4/13/2004 3:00:00 PM	5/17/2004	5/31/2004	Solids	3051A-ICPMS	df/may 17
				5/31/2004		6020-S	df/may 17
				5/31/2004		COND-A-S	df/may 17
				5/31/2004		PH-S	df/may 17
				5/31/2004		Soil_Prep	df/may 17
L60353-02A	EPX-46	4/22/2004 2:30:00 PM		5/31/2004		3051A-ICPMS	df/may 17
				5/31/2004		6020-S	df/may 17
				5/31/2004		COND-A-S	df/may 17
				5/31/2004		PH-S	df/may 17
				5/31/2004		Soil_Prep	df/may 17

1

LABORATORY USE ONLY

SAMPLES WERE
1 Shipped or hand delivered
Notes:

2 Ambient/or Chilled
Notes:

3 Temperature

4 Received Broken/Leaking (Improperly Sealed)
Y N
Notes:

5 Properly Preserved
Y N
Notes:

6 Received Within Holding Times
Y N
Notes:
pH out on both
conductivity out 1

60353

KENNECOTT UTAH COPPER CORPORATION CHAIN OF CUSTODY ENVIRON. ENG. PROJECTS GROUP/STRATEGIC RESOURCES GROUP

40353

PROJECT CODE/NAME: Daybreak - Evap Ponds

PO#:

COC#: 4268

LAB ID (lab use only)	SAMPLE ID	DATE COLLECTED	TIME	SAMPLE TYPE/ # OF CONTAINERS			FIELD PARAMETERS					ANALYSIS REQUESTED
				Soil	Water	Other	pH	Cond.	Temp.	DTW(ft)		
	EPX-45	4/13/04	15:00	1								Total As, Pb
	EPX-46	4/22/04	14:30	1								pH, EC

SAMPLER'S SIGNATURE: Elk Ardon LAB SUBMITTED TO: AWAL

REPORT RESULTS TO: Elias Ardon PHONE #: 253-2081 FAX #:

SURRENDERED BY: Elk Ardon RECEIVED BY: Rebekah Winkler DATE/TIME 5/17/04 16:00

SURRENDERED BY: RECEIVED BY: DATE/TIME

SURRENDERED BY: RECEIVED BY: DATE/TIME

COMMENTS/SPECIAL INSTRUCTIONS: Please send pdf format report to eluda@kennecott.com

WHITE COPY: LAB/SAMPLES YELLOW COPY: EEPG PINK COPY: SAMPLER

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: May 6, 2004
Project: Daybreak - Evap. Ponds

Contact: Ehud Ardon
Date Received: August 23, 2004

Lab Sample ID:
L61812-01A

Field Sample ID:
EPX-52

463 West 3600 South
Salt Lake City, Utah
84115

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	8/24/2004 5:54:56 PM	6020	0.50	**15**
Lead	mg/kg-wet	8/30/2004 5:02:20 PM	6010B	5.0	**57**

(801) 263-8686
ɔll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: _____
Laboratory Supervisor

Report Date: August 31, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: May 7, 2004
Project: Daybreak - Evap. Ponds

Contact: Ehud Ardon
Date Received: August 23, 2004

Lab Sample ID:
L61812-02A

Field Sample ID:
EPX-61

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-wet	8/24/2004 5:59:53 PM	6020	0.50	**15**
Lead	mg/kg-wet	8/30/2004 5:06:23 PM	6010B	5.0	**59**

Released by: Kyle F. Gross
Laboratory Supervisor

Report Date: August 31, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

INORGANIC ANALYSIS REPORT

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Salt Lake City, Utah
84115

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
Email: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: May 6, 2004
Project: Daybreak - Evap. Ponds

Contact: Ehud Ardon
Date Received: August 23, 2004

Lab Sample ID: L61812-01

Field Sample ID: EPX-52

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	08/23/04 12:00 am	9045C	0	**8.01** *

* Sample had expired upon receipt.

Released by: Kyle F. Gross
Laboratory Supervisor

Report Date: August 31, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: May 7, 2004
Project: Daybreak - Evap. Ponds

Contact: Ehud Ardon
Date Received: August 23, 2004

Lab Sample ID:
L61812-02

Field Sample ID:
EPX-61

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	08/23/04 12:00 am	9045C	0	**8.51** *

* Sample had expired upon receipt.

(801) 263-8686
Toll Free (888) 263-8686
Fax (801) 263-8687
Email: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: Kyle F. Gross
Laboratory Supervisor

Report Date: August 31, 2004

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

American West Analytical Labs

WORK ORDER Summary

23-Aug-04

Work Order L61812

Client ID: NOR100

Project: Daybreak - Evap. Ponds **QC Level:** QC 1 HOK 4

Comments: Footnote report, pH received outside of hold. Email report to ehuda@kennecott.com

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L61812-01A	EPX-52	5/6/04 11:30:00 AM	8/23/04	9/6/04	Soil	3051A-ICPMS	df/aug 23	1
				9/6/04		6020-S	df/aug 23	
				9/6/04		ICP-S	df/aug 23	
				9/6/04		PH-S	df/aug 23	
				9/6/04		Soil_Prep	df/aug 23	
L61812-02A	EPX-61	5/7/04 11:10:00 AM		9/6/04		3051A-ICPMS	df/aug 23	
				9/6/04		6020-S	df/aug 23	
				9/6/04		ICP-S	df/aug 23	
				9/6/04		PH-S	df/aug 23	
				9/6/04		Soil_Prep	df/aug 23	

E-MAILED
8/31/04 17:15

L61812

Client: North American Mine Services
Address: [redacted] N Main
Kaysville UT 84037
City State Zip

Phone: 253.2081 Fax: 253.5010

Contact: Ehud Ardon
E-mail: ehuda@kennecott.com
Project Name: Daybreak - Evap Ponds
Project Number/P.O.#:
Sampler Name: Ehud Ardon

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

Lab Sample Set # [redacted]512
Page _____ of _____

Turn Around Time (Circle One)

1 day	2 day	3 day	4 day	5 day	Standard
QC	1	2	2+	3	3+	4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	As - Total	Pb - Total	Paste pH								COMMENTS
EPX-52	5/6/04 11:30		1	↓	↓	↓								
EPX-61	5/7/04 11:10		1	↓	↓	↓								

Relinquished By: *Signature*	Date	Received By: *Signature*
Ehud Ardon	8/21/04	Elma Hayward
PRINT NAME: Ehud Ardon	Time: 16:10	PRINT NAME: Elma Hayward
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME

Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME

Special Instructions:
Please send pdf report to
ehuda@kennecott.com

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered (Y)
Notes:
2 Ambient or Chilled (Y)
Notes:
3 Temperature _____
4 Received Broken/Leaking (Improperly Sealed) Y (N)
Notes:
5 Properly Preserved (Y) N
Notes:
6 Received Within Holding Times (Y) N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record? Y (N)
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory
A NELAP Accredited Laboratory

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax: (801) 569-7901

AIHA Environmental Lead and Industrial Hygiene ACCREDITED LABORATORY

To: EHUD ARDON

Sample Preparation: *SW 846 Method 3050B*
Sample Analysis: *SW 846 Method 6010B*
SW846 Method 7471A for H g
Sample Type: Soilds
Samples analyzed on an "as received" wet basis.

CERTIFICATE OF ANALYSIS

Date 4/22/2005

Submission Date: 4/5/2005
QC: Sample#: AN05061
Login Group: 04050907

Total Metal

Lab	*Descrription*	*Collection Date*	*Analysis Date*	*Analyte*	*RESULT*	MDL	Units
AN05061	EPX-114 Split						
		4/5/05	4/11/05	Silver	Below MDL	1	mg/kg
		4/5/05	4/11/05	Arsenic	25	2	mg/kg
		4/5/05	4/11/05	Barium	82	2	mg/kg
		4/5/05	4/11/05	Cadmium	Below MDL	1	mg/kg
		4/5/05	4/11/05	Chromium	126	2	mg/kg
		4/5/05	4/11/05	Copper	217	2.0	mg/kg
		4/5/05	4/11/05	Lead	78	0.05	mg/kg
		4/5/05	4/11/05	Selenium	Below MDL	2	mg/kg
AN05062	EPX-116 Split						
		4/5/05	4/11/05	Arsenic	40	2	mg/kg
		4/5/05	4/11/05	Lead	97	0.05	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 4/8/2005

Quality Assurance Statement for Samples: **AN05061 - AN05062**
AN05118
AN05156 - AN05157
AN05273 - AN05295

Original: AN05061 **Spike Sample:** AN05297 **Blank SPIKE:** AN05299

Duplicate: AN05296 **Blank Sample:** AN05298 **Reference Sample:** AN05300 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	Below MDL	Below MDL	**	100	98	**98**	Below MDL	98	**98**	149	130	**115**
Arsenic	2	25	24	4.08	100	120	**95**	Below MDL	95	**95**	167	161	**104**
Barium	2	82	82	0.00	100	182	**100**	Below MDL	99	**99**	266	252	**106**
Cadmium	0.5	Below MDL	Below MDL	**	100	94	**94**	Below MDL	95	**95**	127	128	**99**
Chromium	1	126	130	-3.13	100	208	**82**	Below MDL	99	**99**	73	69.5	**105**
Lead	1	78	77	1.29	100	176	**98**	Below MDL	90	**90**	147	142	**104**
Selenium	2	Below MDL	Below MDL	**	100	85	**85**	Below MDL	84	**84**	57	64.2	**89**
Copper	1	217	218	-0.46	100	325	**108**	Below MDL	103	**103**	163	148	**110**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Log-in Group No. 050907

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	A005061	EPA-114										split
2	062	EPA-116										
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: Ehud Ardon **Telephone #** _____ **Fax #** _____
Report Results to : Ehud Ardon **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: _____ Received By: [signature] Date/Time: 3/14/05 2:30
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 5, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-01A

Field Sample ID:
EPX-114

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	5/10/2005 8:33:51 PM	6020	0.50	**24**
Lead	mg/kg-dry	5/10/2005 8:07:15 PM	6010B	5.0	**68**

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

l analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This port is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection th the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
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il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 5, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-02A

Field Sample ID:
EPX-116

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	5/10/2005 8:53:53 PM	6020	0.50	**46**
Lead	mg/kg-dry	5/10/2005 8:23:27 PM	6010B	5.0	**81**

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

l analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This port is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection th the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: April 5, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-01

Field Sample ID:
EPX-114

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	04/27/05 6:00 pm	9045C	0	**5.97 ***

* Sample had expired upon receipt.

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: Kyle F. Gross
Laboratory Supervisor

Report Date: May 11, 2005

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: April 5, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-02

Field Sample ID:
EPX-116

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	04/27/05 6:00 pm	9045C	0	**5.90 ***

* Sample had expired upon receipt.

(801) 263-8686
ll Free (888) 263-8686
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il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: Kyle F. Gross
Laboratory Supervisor

Report Date: May 11, 2005

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QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Oualifiers	Analysis Date
MB-21576	Arsenic	mg/kg	6020	< 0.50				-				5/10/2005
MB-21576	Lead	mg/kg	6010B	< 5.0				-				5/10/2005

Released by:
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-21576	Arsenic	mg/kg	6020	20.21	20	0	101	85-115				5/10/2005
LCS-21576	Lead	mg/kg	6010B	19.81	20	0	99	75-125				5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L65575-01AMS	Arsenic	mg/kg-dry	6020	45.63	20.11	23.82	108	70-130				5/10/2005
L65575-01AMS	Lead	mg/kg-dry	6010B	85.44	20.11	68.35	85	75-125				5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Oualifiers	Analysis Date
L65575-01AMSD	Arsenic	mg/kg-dry	6020	45.08	20.11	23.82	105	70-130	1.23	20		5/10/2005
L65575-01AMSD	Lead	mg/kg-dry	6010B	87.67	20.11	68.35	96.1	75-125	2.57	20		5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: WC
SampType: DUP

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Oualifiers	Analysis Date
L65575-05BDUP	pH @ 25° C	pH Units	9045C	5.38	0	5.37	0	-	0.186	10	*	4/27/2005
L65563-01ADUP	pH @ 25° C	pH Units	9045C	9.05	0	8.94	0	-	1.22	10	*	4/27/2005

* Sample had expired upon receipt.

Released by:
Laboratory Supervisor

Report Date: May 11, 2005

American West Analytical Labs

WORK ORDER Summary

27-Apr-05

Work Order L65575

Client ID: NOR100

Project: Daybreak **QC Level:** QC 2

Comments: Level 2 QC. Footnote report, pH received outside of hold. 10K H

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage
L65575-01A	EPX-114	4/5/2005	4/27/2005	5/11/2005	Soil	3051A-ICPMS	apr 27 - metals 1
				5/11/2005		6020-S	apr 27 - metals
				5/11/2005		ICP-S	apr 27 - metals
				5/11/2005		PMOIST	apr 27 - metals
L65575-01B				5/11/2005		PH-S	apr 27 - metals
				5/11/2005		Soil_Prep	apr 27 - metals
L65575-02A	EPX-116			5/11/2005		3051A-ICPMS	apr 27 - metals
				5/11/2005		6020-S	apr 27 - metals
				5/11/2005		ICP-S	apr 27 - metals
		5/11/05 14:43		5/11/2005		PMOIST	apr 27 - metals
L65575-02B				5/11/2005		PH-S	apr 27 - metals
				5/11/2005		Soil_Prep	apr 27 - metals
L65575-03A	EP30-11.3	4/6/2005		5/11/2005		3051A-ICPMS	apr 27 - metals
				5/11/2005		6020-S	apr 27 - metals
				5/11/2005		ICP-S	apr 27 - metals
				5/11/2005		PMOIST	apr 27 - metals
L65575-03B				5/11/2005		PH-S	apr 27 - metals
				5/11/2005		Soil_Prep	apr 27 - metals
L65575-04A	EP30-14.1			5/11/2005		3051A-ICPMS	apr 27 - metals
				5/11/2005		6020-S	apr 27 - metals
				5/11/2005		ICP-S	apr 27 - metals
				5/11/2005		PMOIST	apr 27 - metals
L65575-04B				5/11/2005		PH-S	apr 27 - metals
				5/11/2005		Soil_Prep	apr 27 - metals
L65575-05A	EP30-14.2			5/11/2005		3051A-ICPMS	apr 27 - metals
				5/11/2005		6020-S	apr 27 - metals
				5/11/2005		ICP-S	apr 27 - metals

65575

RK ORDER Summary

27-Apr-05

Work Order L65575

Client ID: NOR100

Project: Daybreak **QC Level:** QC 2

Comments: Level 2 QC. Footnote report, pH received outside of hold.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L65575-05A	EP30-14.2	4/6/2005	4/27/2005	5/11/2005	Soil	PMOIST	apr 27 - metals	1
L65575-05B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	

Client: No[illegible] AMERICAN MINE SERVICES
Address: [illegible] 300 W SUITE #3
KA[illegible]VILLE UT 84037
City State Zip
Phone: 801.253.2081 Fax:
Contact: EHUD ARDON
E-mail: EHUDA@KENNECOTT.COM
Project Name: DAYBREAK
Project Number/P.O.#:
Sampler Name: EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 6[illegible]75
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard
QC 1 2 2+ 3 3+ 4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)		As - Total	Pb - Total	pH							COMMENTS
EPX-114	4/5/05	S	1		+	+	+							
EPX-116	-"-	S	1		+	+	+							
EP30-11.3	4/6/05	S	1		+	+	+							
EP30-14.1	-"-	S	1		+	+	+							
EP30-14.2	-"-	S	1		+	+	+							

Relinquished By: Signature	Date	Received By: Signature
[signature]	4/27/05	[signature]
PRINT NAME: EHUD ARDON	Time: 17:06	PRINT NAME: REBEKAH WINKLER
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 20 °C
4 Received Broken/Leaking (Improperly Sealed)
Y N
Notes:
5 Properly Preserved
Y N
Notes:
6 Received Within Holding Times
Y N
Notes:
pH

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record?
Y N
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 21-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 1/25/2006

QC Reference Sample: **AO01255**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO01254	SPLIT OF EPX159A(AN18948)	11/2/2005	1/26/2006	Arsenic	**42**	2	mg/kg
			1/26/2006	Barium	**36**	2	mg/kg
			1/26/2006	Cadmium	**Below MDL**	1	mg/kg
			1/26/2006	Chromium	**107**	2	mg/kg
			1/26/2006	Copper	**73**	2.0	mg/kg
			1/26/2006	Lead	**43**	3	mg/kg
			1/26/2006	Selenium	**Below MDL**	2	mg/kg
			1/26/2006	Silver	**2**	1	mg/kg
AO01255	SPLIT OF EPX161A(AN18949)	11/2/2005	1/26/2006	Arsenic	**29**	2	mg/kg
			1/26/2006	Barium	**33**	2	mg/kg
			1/26/2006	Cadmium	**Below MDL**	1	mg/kg
			1/26/2006	Chromium	**106**	2	mg/kg
			1/26/2006	Copper	**81**	2.0	mg/kg
			1/26/2006	Lead	**50**	3	mg/kg
			1/26/2006	Selenium	**Below MDL**	2	mg/kg
			1/26/2006	Silver	**2**	1	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 1/25/2006

Quality Assurance Satement for Samples: **ao00333**
ao00435
ao01243-a001246
ao01254-ao01255

Original: ao01255 **Spike Sample:** ao01259 **Blank Spike:** ao01261

Duplicate: ao01258 **Blank Sample:** ao01260 **Reference Sample:** ao01262 0017-16-28

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	29	28	3.51	100	124	**95**	Below MDL	95	**95**	121	111	**109**
Barium	2	33	34	-2.99	100	133	**100**	Below MDL	97	**97**	206	195	**106**
Cadmium	0.5	below MDL	below MDL	**	100	96	**96**	Below MDL	95	**95**	119	110	**108**
Chromium	1	106	106	0.00	100	210	**104**	Below MDL	97	**97**	168	154	**109**
Lead	1	50	48	4.08	100	149	**99**	Below MDL	96	**96**	171	158	**108**
Selenium	2	below MDL	below MDL	**	100	84	**82**	Below MDL	85	**85**	93	94.4	**99**
Copper	1	81	80	1.24	100	186	**105**	Below MDL	99	**99**	118	148	**80**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

***= possible matrix interference

Log-in Group No. 06 1507/238

KENNECOTT ENVIRONMENTAL LABORATORY
9600 West 2100 South Magna, Utah 84044

ANALYTICAL REQUEST SHEET
Sample Chain of Custody

_____ - _____ - _____
Sheet Request No.
Lab Use Only

#	Lab I.D. # (Lab Use Only)	Sample Description	Date Collected	Time Collected	Total # of Containers	Field Data						Analyses Requested
1	A001254	Split of EPX-159A (AN18948)										RCRA 8 (no Hg)
2	" 1255	Split of EPX-161A (AN18949)										
3												
4												
5												
6												
7												
8												
9												
10												
11												
12												
13												
14												
15												
16												

Sample Submitted by: _____ **Telephone #** _____ **Fax #** _____
Report Results to : _____ **Telephone #** _____ **Fax #** _____

Sampler: _____ **Sampling Site:** _____ **Sampling Date:** _____ **Time:** _____

Surrendered By: Melissa C. Received By: Vince [illegible] Date/Time: 01/25/06
Surrendered By: _____ Received By: _____ Date/Time: _____
Surrendered By: _____ Received By: _____ Date/Time: _____

Comments / Special Instructions: _____

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

January 20, 2006

Ehud Ardon
North American Exploration, Inc.
447 North 300 West, Suite 3
Kaysville, UT 840374203

TEL: (801) 569-7869
FAX: (801) 569-6854

RE: Daybreak

Lab Set ID: L69723

Dear Ehud Ardon:

American West Analytical Labs received 2 samples on 1/16/2006 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Approved by: _____
Laboratory Director or designee

ll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This port is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection ith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L69723-01A
Field Sample ID: **EPX-159A**
Collected: 11/2/2005
Received: 1/16/2006

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	1/18/2006 1:59:16 PM	6020	0.51	**42**
Lead	mg/kg-dry	1/18/2006 1:59:16 PM	6020	0.51	**44**

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L69723-02A
Field Sample ID: **EPX-161A**
Collected: 11/2/2005
Received: 1/16/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	1/18/2006 2:10:05 PM	6020	0.50	**29**
Lead	mg/kg-dry	1/18/2006 2:10:05 PM	6020	0.50	**55**

*~ * Poor spike recoveries and high RPD due to sample non-homogeneity.*

ll analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This eport is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection ith the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only n contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

AMERICAN
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Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L69723-01
Field Sample ID: **EPX-159A**
Collected: 11/2/2005
Received: 1/16/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	01/16/06 6:45 pm	9045C	0	**4.10**	**H**

H - Sample was received outside of holding time.

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L69723-02
Field Sample ID: **EPX-161A**
Collected: 11/2/2005
Received: 1/16/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	01/16/06 6:45 pm	9045C	0	**4.43**	**H**

H - Sample was received outside of holding time.

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

Amer[illegible]n West Analytical Labs

WORK ORDER Summary

17-Jan-06

Work Order L69723

Client ID: NOR100 **QC Level:** 1

Project: Daybreak **Location:** HOK 4

Comments: QCLevel: 1. Footnote report, pH received outside of hold.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L69723-01A	EPX-159A	11/2/2005	1/16/2006	1/30/2006	Soil	3051A-ICPMS	jan 16 - metals	1
				1/30/2006		6020-S	jan 16 - metals	1
				1/30/2006		PMOIST	jan 16 - metals	1
L69723-01B				1/30/2006		PH-S	jan 16 - metals	1
				1/30/2006		Soil_Prep	jan 16 - metals	1
L69723-02A	EPX-161A			1/30/2006		3051A-ICPMS	jan 16 - metals	1
				1/30/2006		6020-S	jan 16 - metals	1
				1/30/2006		PMOIST	jan 16 - metals	1
L69723-02B				1/30/2006		PH-S	jan 16 - metals	1
				1/30/2006		Soil_Prep	jan 16 - metals	1

emailed 1/20/06

L69723

Client: North American Mine Services
Address: 44[illegible] 300 W Suite #3
Kaysville UT 84037
City State Zip
Phone: 253-2081 Fax:
Contact: EHUD ARDON
E-mail: keardon@kennecott.com
Project Name: Daybreak
Project Number/P.O.#:
Sampler Name: EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 68[illegible]23
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard
QC 1 2 2+ 3 3+ 4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Total As	Total Pb	pH								COMMENTS
EPX-159A	11/2/05	S	1	X	X	X								
EPX-161A	- "	S	1	X	X	X								

Relinquished By: *Signature*	Date	Received By: *Signature*
Ehud Ardon	11/16/05	[signature]
PRINT NAME	Time	PRINT NAME
	11:22	REBECCA WINKLER
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 17.5
4 Received Broken/Leaking (Improperly Sealed)
Y N
Notes:
5 Properly Preserved
Y N
Notes:
6 Received Within Holding Times
Y N
Notes: w/ tape
pH

COC Tape Was:
1 Present on Outer Package
Y N NA
2 Unbroken on Outer Package
Y N NA
3 Present on Sample
Y N NA
4 Unbroken on Sample
Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record?
Y N
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 21-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: *SWA 846 Method 3050 B*

Metals Analysis: *SWA846 Methods 60100B and 7471*

Submission Date: 12/14/2006

QC Reference Sample: **AO20241**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO20245	EPX-220 (AO13831)	8/8/2006	12/23/2006	pH Paste	**4.68**		
			1/2/2007	Arsenic	**96**	2	mg/kg
			1/2/2007	Lead	**205**	3	mg/kg
AO20246	EPX-216B (AO15205)	8/29/2006	12/23/2006	pH Paste	**4.79**		
			1/2/2007	Arsenic	**53**	2	mg/kg
			1/2/2007	Lead	**126**	3	mg/kg
AO20247	EPX-245 (AO18706)	11/10/2006	12/23/2006	pH Paste	**3.22**		
			1/2/2007	Arsenic	**35**	2	mg/kg
			1/2/2007	Lead	**159**	3	mg/kg
AO20254	EPX-239 (AO18211)	11/21/2006	12/23/2006	pH Paste	**4.73**		
			1/2/2007	Arsenic	**75**	2	mg/kg
			1/2/2007	Lead	**547**	3	mg/kg

Approved by:

Lynn A. Hutchinson

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 1/2/2007

Quality Assurance Satement for Samples: **AO20241-AO20256**
AO20971-AO20972

Original: AO20241 **Spike Sample:** AO20948 **Blank Spike:** AO20950

Duplicate: AO20947 **Blank Sample:** AO20949 **Reference Sample:** AO20951 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	47	47	0.00	100	140	**93**	Below MDL	91	**91**	138	142	**97**
Lead	1	357	355	0.56	100	445	**88**	Below MDL	91	**91**	87	93.6	**93**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.
***= possible matrix interference

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ɔll Free (888) 263-8686
Fax (801) 263-8687
ıail: awal@awal-labs.com

January 09, 2007

Ehud Ardon
North American Exploration, Inc.
447 North 300 West, Suite 3
Kaysville, UT 84037-4203

TEL: (801) 569-7869
FAX (801) 569-6854

RE: Daybreak

Lab Set ID: L75606

Dear Ehud Ardon:

American West Analytical Labs received 16 samples on 1/2/2007 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Approved by: _____
Laboratory Director or designee

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

INORGANIC ANALYSIS REPORT

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LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ɔll Free (888) 263-8686
Fax (801) 263-8687
ıail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75606-13A
Field Sample ID: **EPX-216B**
Collected: 8/29/2006 11:05:00 AM
Received: 1/2/2007

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	1/4/2007 12:46:44 PM	6020	0.52	**63**
Lead	mg/kg-dry	1/4/2007 12:46:44 PM	6020	0.52	**140**

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INORGANIC ANALYSIS REPORT

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75606-14A
Field Sample ID: **EPX-220**
Collected: 8/8/2006 9:30:00 AM
Received: 1/2/2007

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results	
Arsenic	mg/kg-dry	1/4/2007 12:52:08 PM	6020	0.50	**120**	
Lead	mg/kg-dry	1/4/2007 2:43:02 PM	6020	25	**230**	*

** The reporting limits were raised due to high analyte concentration.*

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INORGANIC ANALYSIS REPORT

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75606-15A
Field Sample ID: **EPX-239**
Collected: 11/2\/2006 12:40:00 PM
Received: 1/2/2007

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ɔll Free (888) 263-8686
Fax (801) 263-8687
ıail: awal@awal-labs.com

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results	
Arsenic	mg/kg-dry	1/4/2007 12:57:32 PM	6020	0.50	**87**	
Lead	mg/kg-dry	1/4/2007 2:48:27 PM	6020	25	**600**	*

** The reporting limits were raised due to high analyte concentration.*

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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INORGANIC ANALYSIS REPORT

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75606-16A
Field Sample ID: **EPX-245**
Collected: 11/10/2006 1:30:00 PM
Received: 1/2/2007

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	1/4/2007 1:02:52 PM	6020	0.50	**40**
Lead	mg/kg-dry	1/4/2007 1:02:52 PM	6020	0.50	**170**

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
ail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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463 West [illegible] South
Salt Lake C[illegible] Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Dire[illegible]

Peggy McNicol
QA Officer

CLIENT: North American Exploration, Inc. **Contact:** Ehud Ardon
LabOrder: L75606
Project: Daybreak **DateReceived:** 1/2/2007

pH @ 25° C

Lab Sample ID	Sample ID	Date Sampled	Date Analyzed	Method Used	Units	Reporting Limits	Analytical Result	
L75606-01B	EPZ-32.2	6/21/2006 10:52:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	6.53	H
	H - Sample was received outside of holding time.							
L75606-02B	TDZ-6.1	7/28/2006 12:00:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.88	H
	H - Sample was received outside of holding time.							
L75606-03B	TDZ-2.2	7/28/2006 9:32:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.75	H
	H - Sample was received outside of holding time.							
L75606-04B	BDX-8.1	11/2/2006 11:02:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	5.46	H
	H - Sample was received outside of holding time.							
L75606-05B	BD1.3	10/27/2006 3:25:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	5.70	H
	H - Sample was received outside of holding time.							
L75606-06B	MDZ-8.4	10/11/2006 9:26:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.71	H
	H - Sample was received outside of holding time.							
L75606-07B	MDX-1	8/14/2006 11:00:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.11	H
	H - Sample was received outside of holding time.							
L75606-08B	GP-7B2-2	8/2/2006 1:06:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.41	H
	H - Sample was received outside of holding time.							
L75606-09B	AO-28A.4	11/2/2006 1:12:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.13	H
	H - Sample was received outside of holding time.							
L75606-10B	AO-K19.6	8/14/2006 10:40:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	6.30	H
	H - Sample was received outside of holding time.							
L75606-11B	AO-K45B	8/25/2006 11:00:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.07	H
	H - Sample was received outside of holding time.							
L75606-12B	AO-K172-X.5	10/16/2006 12:25:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.22	H
	H - Sample was received outside of holding time.							

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463 West [illegible] J South
Salt Lake C[illegible] Utah 84115
(801) 263-8686, Toll Free (88[illegible]3-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Dire[illegible]

Peggy McNicol
QA Officer

CLIENT: North American Exploration, Inc. **Contact:** Ehud Ardon
LabOrder: L75606
Project: Daybreak **DateReceived:** 1/2/2007

pH @ 25° C

Lab Sample ID	Sample ID	Date Sampled	Date Analyzed	Method Used	Units	Reporting Limits	Analytical Result	
L75606-13B	EPX-216B	8/29/2006 11:05:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.74	H
	H - Sample was received outside of holding time.							
L75606-14B	EPX-220	8/8/2006 9:30:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.66	H
	H - Sample was received outside of holding time.							
L75606-15B	EPX-239	11/21/2006 12:40:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.72	H
	H - Sample was received outside of holding time.							
L75606-16B	EPX-245	11/10/2006 1:30:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	3.16	H
	H - Sample was received outside of holding time.							

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American West Analytical Labs

emailed 1/10/07

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** Hold DB **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals DB

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-01A	EPZ-32.2	6/21/2006 10:52:00 AM	1/2/2007	1/16/2007	Soil	3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-01B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-02A	TDZ-6.1	7/28/2006 12:00:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-02B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-03A	TDZ-2.2	7/28/2006 9:32:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-03B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-04A	BDX-8.1	11/2/2006 11:02:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-04B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-05A	BD1.3	10/27/2006 3:25:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-05B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-06A	MDZ-8.4	10/11/2006 9:26:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-06A	MDZ-8.4	10/11/2006 9:26:00 AM	1/2/2007	1/16/2007	Soil	PMOIST	Jan. 2 - met	1
L75606-06B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-07A	MDX-1	8/14/2006 11:00:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-07B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-08A	GP-7B2-2	8/2/2006 1:06:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-08B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-09A	AO-28A.4	11/2/2006 1:12:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-09B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-10A	AO-K19.6	8/14/2006 10:40:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-10B				1/16/2007		PH-9045D	Jan. 2 -pH	1
				1/16/2007		Soil_Prep	Jan. 2 -pH	1
L75606-11A	AO-K45B	8/25/2006 11:00:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-11B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-12A	AO-K172-X.5	10/16/2006 12:25:00 PM	1/2/2007	1/16/2007	Soil	3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-12B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-13A	EPX-216B	8/29/2006 11:05:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-13B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-14A	EPX-220	8/8/2006 9:30:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-14B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-15A	EPX-239	11/21/2006 12:40:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-15B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-16A	EPX-245	11/10/2006 1:30:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-16B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1

Client: NORTH AMERICAN EXP
Address: 47 N 300 W #3
KAYSVILLE UT 84037
City State Zip
Phone: 801.858.6604 Fax:
Contact: EHUD ARDON
E-mail: KEARDON@KENNECOTT.COM
Project Name: DAYBREAK
Project Number/P.O.#:
Sampler Name: EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

Lab Sample Set # 2606
Page 2 of 2

Turn Around Time (Circle One)
1 day | 2 day | 3 day | 4 day | 5 day | Standard
QC | 1 | 2 | 2+ | 3 | 3+ | 4

Please indicate tests needed below

	Sample ID	Date/Time Collected * per samples DB	Matrix	Number of Containers (Total)	Total As	Total Pb	pH								COMMENTS
13	EPX-216B	8-29-06 11:05			✓	✓	✓								
14	EPX-220	8-8-06 9:30			✓	✓	✓								
15	EPX-239	11-21-06 12:40			✓	✓	✓								
16	EPX-245	11-10-06 1:30			✓	✓	✓								

Relinquished By: Signature	Date	Received By: Signature
Ehud Ardon	1/2/07	Olynn Turner
PRINT NAME: EHUD ARDON	Time: 7:44	PRINT NAME: Olynn Turner
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 19.5
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N
Notes:
6 Received Within Holding Times Y N
Notes: pH out of hold; ~~HM~~ metals out of hold

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record? Y N
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 22-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: ***SWA 846 Method 3050 B***

Metals Analysis: ***SWA846 Methods 60100B and 7471***

Submission Date: 4/14/2005

QC Reference Sample: **AN03482**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AN05660	EP-30-14.1 (AN05275)	4/6/2005	4/15/2005	Arsenic	**37**	2	mg/kg
			4/15/2005	Lead	**44**	3	mg/kg
AN05661	EP-30-14.2 (AN05276)	4/6/2005	4/15/2005	Arsenic	**29**	2	mg/kg
			4/15/2005	Lead	**26**	3	mg/kg
AN05662	EP-30-11.3 (AN05285)	4/6/2005	4/15/2005	Arsenic	**20**	2	mg/kg
			4/15/2005	Lead	**65**	3	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Enviro[illegible]ental Laboratory

Total Metals

Preparation Date: 4/15/2005

Quality Assurance Statement for Samples: **AN02578**
AN03480 - AN03484
AN05660 - AN05666

Original: AN03482 **Spike Sample:** AN05674 **Blank SPIKE:** AN05676

Duplicate: AN05673 **Blank Sample:** AN05675 **Reference Sample:** AN05677 0017-16-10

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Silver	1	5	Below MDL	**	100	96	**96**	Below MDL	98	**98**	159	130	**122**
Arsenic	2	27	22	20.41	100	125	**98**	Below MDL	99	**99**	164	161	**102**
Barium	2	117	117	0.00	100	220	**103**	Below MDL	100	**100**	253	252	**100**
Cadmium	0.5	4	1	**	100	97	**97**	Below MDL	96	**96**	123	128	**96**
Chromium	1	64	64	0.00	100	163	**99**	Below MDL	101	**101**	70	69.5	**101**
Lead	1	114	108	5.41	100	202	**88**	Below MDL	99	**99**	138	142	**97**
Selenium	2	8	2	**	100	96	**96**	Below MDL	87	**87**	56	64.2	**87**
Copper	1	248	248	0.00	100	350	**102**	Below MDL	105	**105**	156	148	**105**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-Labs.com

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-03A

Field Sample ID:
EP30-11.3

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	5/10/2005 8:58:54 PM	6020	0.50	**19**
Lead	mg/kg-dry	5/10/2005 8:35:31 PM	6010B	5.0	**60**

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ıort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-04A

Field Sample ID:
EP30-14.1

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	5/10/2005 9:03:54 PM	6020	0.50	**35**
Lead	mg/kg-dry	5/10/2005 8:39:33 PM	6010B	5.0	**36**

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-05A

Field Sample ID:
EP30-14.2

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	5/10/2005 9:19:38 PM	6020	0.50	**26**
Lead	mg/kg-dry	5/10/2005 8:43:32 PM	6010B	5.0	**24**

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

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INORGANIC ANALYSIS REPORT

AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-03

Field Sample ID:
EP30-11.3

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	04/27/05 6:00 pm	9045C	0	**5.28** *

* Sample had expired upon receipt.

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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Report Date: May 11, 2005

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AMERICAN WEST ANALYTICAL LABORATORIES

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-04

Field Sample ID:
EP30-14.1

463 West 3600 South
Salt Lake City, Utah
84115

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	04/27/05 6:00 pm	9045C	0	**5.15** *

* Sample had expired upon receipt.

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ll Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-Labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Date Sampled: April 6, 2005
Project: Daybreak

Contact: Ehud Ardon
Date Received: April 27, 2005

Lab Sample ID:
L65575-05

Field Sample ID:
EP30-14.2

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result
pH @ 25° C	pH Units	04/27/05 6:00 pm	9045C	0	**5.37 ***

* Sample had expired upon receipt.

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

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QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MBLK

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
MB-21576	Arsenic	mg/kg	6020	< 0.50				-				5/10/2005
MB-21576	Lead	mg/kg	6010B	< 5.0				-				5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: LCS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
LCS-21576	Arsenic	mg/kg	6020	20.21	20	0	101	85-115				5/10/2005
LCS-21576	Lead	mg/kg	6010B	19.81	20	0	99	75-125				5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MS

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L65575-01 AMS	Arsenic	mg/kg-dry	6020	45.63	20.11	23.82	108	70-130				5/10/2005
L65575-01 AMS	Lead	mg/kg-dry	6010B	85.44	20.11	68.35	85	75-125				5/10/2005

Released by: _____
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: ME
SampType: MSD

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L65575-01AMSD	Arsenic	mg/kg-dry	6020	45.08	20.11	23.82	105	70-130	1.23	20		5/10/2005
L65575-01AMSD	Lead	mg/kg-dry	6010B	87.67	20.11	68.35	96.1	75-125	2.57	20		5/10/2005

Released by:
Laboratory Supervisor

Report Date: May 11, 2005

QC SUMMARY REPORT

CLIENT: North American Exploration, Inc.
Work Order: L65575
Project: Daybreak

Dept: WC
SampType: DUP

Sample ID	Analyte	Units	Method	Result	Amount Spiked	Original Amount	%REC	Limits	%RPD	RPD Limit	Qualifiers	Analysis Date
L65575-05BDUP	pH @ 25° C	pH Units	9045C	5.38	0	5.37	0	-	0.186	10	*	4/27/2005
L65563-01ADUP	pH @ 25° C	pH Units	9045C	9.05	0	8.94	0	-	1.22	10	*	4/27/2005

* Sample had expired upon receipt.

Released by: Laboratory Supervisor

Report Date: May 11, 2005

American West Analytical Labs

WORK ORDER Summary

27-Apr-05

Work Order L65575

Client ID: NOR100

Project: Daybreak **QC Level:** QC 2

Comments: Level 2 QC. Footnote report, pH received outside of hold. HOK H

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L65575-01A	EPX-114	4/5/2005	4/27/2005	5/11/2005	Soil	3051A-ICPMS	apr 27 - metals	1
				5/11/2005		6020-S	apr 27 - metals	
				5/11/2005		ICP-S	apr 27 - metals	
				5/11/2005		PMOIST	apr 27 - metals	
L65575-01B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	
L65575-02A	EPX-116			5/11/2005		3051A-ICPMS	apr 27 - metals	
				5/11/2005		6020-S	apr 27 - metals	
				5/11/2005		ICP-S	apr 27 - metals	
				5/11/2005		PMOIST	apr 27 - metals	
L65575-02B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	
L65575-03A	EP30-11.3	4/6/2005		5/11/2005		3051A-ICPMS	apr 27 - metals	
				5/11/2005		6020-S	apr 27 - metals	
				5/11/2005		ICP-S	apr 27 - metals	
				5/11/2005		PMOIST	apr 27 - metals	
L65575-03B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	
L65575-04A	EP30-14.1			5/11/2005		3051A-ICPMS	apr 27 - metals	
				5/11/2005		6020-S	apr 27 - metals	
				5/11/2005		ICP-S	apr 27 - metals	
				5/11/2005		PMOIST	apr 27 - metals	
L65575-04B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	
L65575-05A	EP30-14.2			5/11/2005		3051A-ICPMS	apr 27 - metals	
				5/11/2005		6020-S	apr 27 - metals	
				5/11/2005		ICP-S	apr 27 - metals	

65575

WORK ORDER Summary

27-Apr-05

Work Order L65575

Client ID: NOR100

Project: Daybreak **QC Level:** QC 2

Comments: Level 2 QC. Footnote report, pH received outside of hold.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L65575-05A	EP30-14.2	4/6/2005	4/27/2005	5/11/2005	Soil	PMOIST	apr 27 - metals	1
L65575-05B				5/11/2005		PH-S	apr 27 - metals	
				5/11/2005		Soil_Prep	apr 27 - metals	

Client: NORTH AMERICAN MINE SERVICES
Address: 447 N 300 W SUITE #3
KAMVILLE UT 84037
City State Zip
Phone: 801.255.3081 Fax:
Contact: EHUD ARDON
E-mail: EHUDA@KENNECOTT.COM
Project Name: DAYBREAK
Project Number/P.O.#:
Sampler Name: EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115
(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 65575
Page 1 of 1

Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard
QC 1 2 2+ 3 3+ 4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)		As - Total	Pb - Total	pH							COMMENTS
EPX-114	4/5/05	S	1		+	+	+							
EPX-116	-"-	S	1		+	+	+							
EP30-11.3	4/6/05	S	1		+	+	+							
EP30-14.1	-"-	S	1		+	+	+							
EP30-14.2	-"-	S	1		+	+	+							

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME: EHUD ARDON	Time: 17:06	PRINT NAME: REBEKAH WINKLER
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 20 °C
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N
Notes:
6 Received Within Holding Times Y N
Notes:
pH

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record? Y N
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/7/2006

QC Reference Sample: **AO13704**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13697	GP-7B.7 (AO10954)	6/21/2006	8/17/2006	pH Paste	**3.83**		
			8/22/2006	Arsenic	**34**	2	mg/kg
			8/22/2006	Lead	**157**	3	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/18/2006

Quality Assurance Satement for Samples: **AO12991-AO12994**
AO13689-AO13704

Original: AO13704 **Spike Sample:** AO14527 **Blank Spike:** AO14529

Duplicate: AO14526 **Blank Sample:** AO14528 **Reference Sample:** AO14530 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	20	21	-4.88	100	118	**98**	Below MDL	97	**97**	150	142	**106**
Lead	1	115	118	-2.58	100	214	**99**	Below MDL	98	**98**	96	93.6	**103**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

Kennecott Utah Copper

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 13-Feb-07

To: EHUD ARDON

Sample Preparation: SWA 846 Method 3050 B

Metals Analysis: SWA846 Methods 60100B and 7471

Submission Date: 8/7/2006

QC Reference Sample: **AO13712**

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO13712	GP-7C8 (AO11661)	6/29/2006	8/17/2006	pH Paste	**3.79**		
			8/24/2006	Arsenic	**94**	2	mg/kg
			8/24/2006	Lead	**141**	3	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/23/2006

Quality Assurance Satement for Samples: **AO13705-AO13712**
AO14584-AO14587

Original: AO13712 **Spike Sample:** AO14714 **Blank Spike:** AO14716

Duplicate: AO14713 **Blank Sample:** AO14715 **Reference Sample:** AO14717 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	94	91	3.24	100	186	**92**	Below MDL	96	**96**	157	142	**111**
Lead	1	141	136	3.61	100	229	**88**	Below MDL	97	**97**	99	93.6	**106**

* = Sample concentration is 5 times higher than the spike amount.
** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.
***= possible matrix interference

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-labs.com

September 13, 2006

Ehud Ardon
North American Exploration, Inc.
447 North 300 West, Suite 3
Kaysville, UT 84037-4203

TEL: (801) 569-7869
FAX: (801) 569-6854

RE: Daybreak

Lab Set ID: L73692

Dear Ehud Ardon:

American West Analytical Labs received 3 samples on 8/31/2006 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

yle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Approved by: _____
Laboratory Director or designee

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ›ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L73692-02A
Field Sample ID: **GP-7B.7**
Collected: 6/21/2006
Received: 8/31/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	9/12/2006 6:03:50 PM	6010B	5.0	**26**
Lead	mg/kg-dry	9/12/2006 6:03:50 PM	6010B	5.0	**140**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
1 Free (888) 263-8686
Fax (801) 263-8687
il: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L73692-03A
Field Sample ID: **GP-7C.8**
Collected: 6/21/2006
Received: 8/31/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	9/12/2006 6:07:21 PM	6010B	5.1	**83**
Lead	mg/kg-dry	9/12/2006 6:07:21 PM	6010B	5.1	**120**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ›ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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Salt Lake City, Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Laboratory Director

Peggy McNicol
QA Officer

CLIENT: North American Exploration, Inc. **Contact:** Ehud Ardon
Lab Order: L73692
Project: Daybreak **Date Received:** 8/31/2006

pH @ 25° C

Lab Sample ID	Sample ID	Date Sampled	Date Analyzed	Method Used	Units	Reporting Limits	Analytical Result	
L73692-02B	GP-7B.7	6/21/2006	8/31/2006 8:25:00 PM	9045C	pH Units	0	3.82	H
	H - Sample was received outside of holding time.							
L73692-03B	GP-7C.8	6/21/2006	8/31/2006 8:25:00 PM	9045C	pH Units	0	3.77	H
	H - Sample was received outside of holding time.							

All analyses applicable to the CWA, SDWA, and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached COC. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only on contact. This company accepts no responsibility except for the due performance of inspection and/or analysis in good faith and according to the rules of the trade and of science.

American West Analytical Labs

en-mailed 9/14/06

WORK ORDER Summary

REVISED 9-8-06

#1 Cancelled

08-Sep-06

Work Order L73692

Client ID: NOR100 **QC Level:** 1

Project: Daybreak **Location:**

Comments: QCLevel: 1. Footnote report, pH received outside of hold. Cancel #1 per client request, sample was consumed in lab before all analysis was complete.

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L73692-01A	GP-3A.1	6/21/2006	8/31/2006		Solid		aug 31 - met	1
L73692-01B							aug 31 - met	1
L73692-02A	GP-7B.7			9/14/2006		3051A-ICPMS	aug 31 - met	1
				9/14/2006		ICP-S	aug 31 - met	1
				9/14/2006		PMOIST	aug 31 - met	1
L73692-02B				9/14/2006		PH-S	aug 31 - met	1
				9/14/2006		Soil_Prep	aug 31 - met	1
L73692-03A	GP-7C.8			9/14/2006		3051A-ICPMS	aug 31 - met	1
				9/14/2006		ICP-S	aug 31 - met	1
				9/14/2006		PMOIST	aug 31 - met	1
L73692-03B				9/14/2006		PH-S	aug 31 - met	1
				9/14/2006		Soil_Prep	aug 31 - met	1

American West Analytical Labs

WORK ORDER Summary

31-Aug-06

Work Order L73692

Client ID: NOR100 **QC Level:** 1

Project: Daybreak **Location:**

Comments: QCLevel: 1. Footnote report, pH received outside of hold. HOK-DB

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L73692-01A	GP-3A.1	6/21/2006	8/31/2006	9/14/2006	Solid	3051A-ICPMS	aug 31 - met	1
				9/14/2006		ICP-S	aug 31 - met	1
				9/14/2006		PMOIST	aug 31 - met	1
L73692-01B				9/14/2006		PH-S	aug 31 - met	1
				9/14/2006		Soil_Prep	aug 31 - met	1
L73692-02A	GP-7B.7			9/14/2006		3051A-ICPMS	aug 31 - met	1
				9/14/2006		ICP-S	aug 31 - met	1
				9/14/2006		PMOIST	aug 31 - met	1
L73692-02B				9/14/2006		PH-S	aug 31 - met	1
				9/14/2006		Soil_Prep	aug 31 - met	1
L73692-03A	GP-7C.8			9/14/2006		3051A-ICPMS	aug 31 - met	1
				9/14/2006		ICP-S	aug 31 - met	1
				9/14/2006		PMOIST	aug 31 - met	1
L73692-03B				9/14/2006		PH-S	aug 31 - met	1
				9/14/2006		Soil_Prep	aug 31 - met	1

Client: North American Mine Services
Address: 17 N 300 W #3
Heyrsville UT 84037
City State Zip
Phone: 801.253.2081 Fax:

Contact: EHUD ARDON
E-mail: keardon@kennecott.com
Project Name: Daybreak
Project Number/P.O.#:
Sampler Name: EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

CHAIN OF CUSTODY

Lab Sample Set # 7[illegible]092
Page 1 of 1

Turn Around Time (Circle One)
1 day | 2 day | 3 day | 4 day | 5 day | Standard
QC 1 | 2 | 2+ | 3 | 3+ | 4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Total As	Total Pb	Tl								COMMENTS
GP-3A.1	6/21/06		1	X	X	X								*
GP-7B.8	-11-		1	X	X	X								
GP-7C.8	6/29/06		1	X	X	X								

Relinquished By: Signature	Date	Received By: Signature
PRINT NAME: EHUD ARDON	Time: 16:00	PRINT NAME: [illegible] WINKLER
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:
* Sample consumed entirely for pH before metals analysis was done. Per Ehud Ardon, cancel all analysis on GP-3A.1
-RW 9/8/06

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 25°C
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N
Notes:
6 Received Within Holding Times Y N
Notes:

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record? Y N
Notes:

Kennecott
Utah Copper

Kennecott Environmental Laboratory

CERTIFICATE OF ANALYSIS

Sample Type: EPA Method 3050 B TOTAL METALS

Date: 22-Mar-07

3325 South 9200 West
Magna, UT 84044-6001
Phone (801) 569-7950
Fax (801) 569-7901

To:

Sample Preparation: SWA 846 Method 3050 B

Submission Date: 7/27/2006

Metals Analysis: SWA846 Methods 60100B and 7471

QC Reference Sample: AO13704

Lab No.	*Sample Description*	*Collection Date*	*Analysis Date*	*Analyte*	*Result*	*Reporting Limits*	*Units*
AO12991	GP-7B.8 SPLIT	6/21/2006	8/22/2006	Arsenic	**108**	2	mg/kg
			8/22/2006	Barium	**304**	2	mg/kg
			8/22/2006	Cadmium	**1**	1	mg/kg
			8/22/2006	Chromium	**130**	2	mg/kg
			8/22/2006	Copper	**481**	2.0	mg/kg
			8/22/2006	Lead	**266**	3	mg/kg
			8/22/2006	Selenium	**Below MDL**	2	mg/kg
AO12992	GP-7B.9 SPLIT	6/21/2006	8/22/2006	Arsenic	**38**	2	mg/kg
			8/22/2006	Barium	**147**	2	mg/kg
			8/22/2006	Cadmium	**Below MDL**	1	mg/kg
			8/22/2006	Chromium	**135**	2	mg/kg
			8/22/2006	Copper	**140**	2.0	mg/kg
			8/22/2006	Lead	**96**	3	mg/kg
			8/22/2006	Selenium	**Below MDL**	2	mg/kg
AO12993	GP-7D.7 SPLIT	6/21/2006	8/22/2006	Arsenic	**18**	2	mg/kg
			8/22/2006	Barium	**136**	2	mg/kg
			8/22/2006	Cadmium	**Below MDL**	1	mg/kg
			8/22/2006	Chromium	**30**	2	mg/kg
			8/22/2006	Copper	**468**	2.0	mg/kg
			8/22/2006	Lead	**270**	3	mg/kg
			8/22/2006	Selenium	**Below MDL**	2	mg/kg
AO12994	GP-7D.9 SPLIT	6/21/2006	8/22/2006	Arsenic	**104**	2	mg/kg
			8/22/2006	Barium	**229**	2	mg/kg
			8/22/2006	Cadmium	**1**	1	mg/kg
			8/22/2006	Chromium	**57**	2	mg/kg
			8/22/2006	Copper	**665**	2.0	mg/kg
			8/22/2006	Lead	**531**	3	mg/kg
			8/22/2006	Selenium	**Below MDL**	2	mg/kg

Approved by:

Approved By: Lynn A. Hutchinson CIH
KEL Laboratory Director

Kennecott Environmental Laboratory

Total Metals

Preparation Date: 8/18/2006

Quality Assurance Satement for Samples: **AO12991-AO12994**
AO13689-AO13704

Original: AO13704 **Spike Sample:** AO14527 **Blank Spike:** AO14529

Duplicate: AO14526 **Blank Sample:** AO14528 **Reference Sample:** AO14530 0017-17-26

Analyte	Reporting Limit mg/Kg	Original	Duplicate	Sample RPD %	Spike Amount	Spike Result	Spike % Recovery	Blank Result	Spike Blank Result	Spike Blank % Recovery	Reference Sample Result	Reference Value	Reference % Recovery
Arsenic	2	20	21	-4.88	100	118	**98**	Below MDL	97	**97**	150	142	**106**
Lead	1	115	118	-2.58	100	214	**99**	Below MDL	98	**98**	96	93.6	**103**

* = Sample concentration is 5 times higher than the spike amount.

** = Value is not greater than 10 times the MDL. An RPD cannot be calculated.

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

November 29, 2006

Ehud Ardon
North American Exploration, Inc.
447 North 300 West, Suite 3
Kaysville, UT 84037-4203

TEL: (801) 569-7869
FAX: (801) 569-6854

RE: Daybreak

Lab Set ID: L75003

Dear Ehud Ardon:

American West Analytical Labs received 4 samples on 11/17/2006 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Approved by: _____
Laboratory Director or designee

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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ANALYTICAL
LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc.
Project ID: Daybreak

Contact: Ehud Ardon

Lab Sample ID: L75003-01A
Field Sample ID: **GP-7B.8**
Collected: 6/21/2006
Received: 11/17/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	11/22/2006 4:53:50 PM	6010B	5.2	**93**
Lead	mg/kg-dry	11/22/2006 4:53:50 PM	6010B	5.2	**250**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection ı the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-02A
Field Sample ID: **GP-7B.9**
Collected: 6/21/2006
Received: 11/17/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	11/22/2006 4:57:50 PM	6010B	5.1	**30**
Lead	mg/kg-dry	11/22/2006 4:57:50 PM	6010B	5.1	**90**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This
ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection
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LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-03A
Field Sample ID: **GP-7D.7**
Collected: 7/21/2006
Received: 11/17/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	11/22/2006 5:01:48 PM	6010B	5.1	**12**
Lead	mg/kg-dry	11/22/2006 5:01:48 PM	6010B	5.1	**280**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
l Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-04A
Field Sample ID: **GP-7D.9**
Collected: 7/21/2006
Received: 11/17/2006

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	11/22/2006 5:13:46 PM	6010B	5.3	**82**
Lead	mg/kg-dry	11/22/2006 5:13:46 PM	6010B	5.3	**510**

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ›ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection h the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-01
Field Sample ID: **GP-7B.8**
Collected: 6/21/2006
Received: 11/17/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	11/18/2006 2:45:00 PM	9045C	0	**4.42**	**H**

H - Sample was received outside of holding time.

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INORGANIC ANALYSIS REPORT

AMERICAN
WEST
ANALYTICAL
LABORATORIES

Client: North American Exploration, Inc.
Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-02
Field Sample ID: **GP-7B.9**
Collected: 6/21/2006
Received: 11/17/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	11/18/2006 2:45:00 PM	9045C	0	**4.85**	**H**

H - Sample was received outside of holding time.

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

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INORGANIC ANALYSIS REPORT

AMERICAN
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LABORATORIES

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-03
Field Sample ID: **GP-7D.7**
Collected: 7/21/2006
Received: 11/17/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	11/18/2006 2:45:00 PM	9045C	0	**4.00**	**H**

H - Sample was received outside of holding time.

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Kyle F. Gross
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QA Officer

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463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
Free (888) 263-8686
Fax (801) 263-8687
l: awal@awal-labs.com

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75003-04
Field Sample ID: **GP-7D.9**
Collected: 7/21/2006
Received: 11/17/2006

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Result	
pH @ 25° C	pH Units	11/18/2006 2:45:00 PM	9045C	0	**3.92**	**H**

H - Sample was received outside of holding time.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This ort is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection n the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

Amer[illegible]n West Analytical Labs

emailed 11/29/06

WORK ORDER Summary

17-Nov-06

Work Order L75003

Client ID: NOR100 **QC Level:** 1

Project: Daybreak **Location:**

Comments: QCLevel: 1. Footnote report, pH received outside of hold.

HOK-DB

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75003-01A	GP-7B.8	6/21/2006	11/17/2006	12/5/2006	Solid	3051A-ICPMS	nov 17 - met	1
				12/5/2006		ICP-S	nov 17 - met	1
				12/5/2006		PMOIST	nov 17 - met	1
L75003-01B				12/5/2006		PH-S	nov 17 - met	1
				12/5/2006		Soil_Prep	nov 17 - met	1
L75003-02A	GP-7B.9			12/5/2006		3051A-ICPMS	nov 17 - met	1
				12/5/2006		ICP-S	nov 17 - met	1
				12/5/2006		PMOIST	nov 17 - met	1
L75003-02B				12/5/2006		PH-S	nov 17 - met	1
				12/5/2006		Soil_Prep	nov 17 - met	1
L75003-03A	GP-7D.7	7/21/2006		12/5/2006		3051A-ICPMS	nov 17 - met	1
				12/5/2006		ICP-S	nov 17 - met	1
				12/5/2006		PMOIST	nov 17 - met	1
L75003-03B				12/5/2006		PH-S	nov 17 - met	1
				12/5/2006		Soil_Prep	nov 17 - met	1
L75003-04A	GP-7D.9			12/5/2006		3051A-ICPMS	nov 17 - met	1
				12/5/2006		ICP-S	nov 17 - met	1
				12/5/2006		PMOIST	nov 17 - met	1
L75003-04B				12/5/2006		PH-S	nov 17 - met	1
				12/5/2006		Soil_Prep	nov 17 - met	1

Client N[illegible]n American Mine Services
Address L[illegible]N 300 W Suite ~~300~~ 3
Kaysville UT 84037
City State Zip

Phone 801.953.2081 Fax

Contact EHUD ARDON
E-mail Keardon@kennecott.com
Project Name Daybreak
Project Number/P.O.#
Sampler Name EHUD ARDON

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah 84115

CHAIN OF CUSTODY

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

Lab Sample Set # 7[illegible]3
Page 1 of 1

Turn Around Time (Circle One)

1 day	2 day	3 day	4 day	5 day	Standard
QC	1	2	2+	3	3+ 4

Please indicate tests needed below

Sample ID	Date/Time Collected	Matrix	Number of Containers (Total)	Total As	Total Pb	pH								COMMENTS
GP-7B.8	6/21/06	S	1	X	X	X								
GP-7B.9	-"-	S	1	X	X	X								
GP-7D.7	7/21/06	S	1	X	X	X								
GP-7D.9	-"-	S	1	X	X	X								

Relinquished By: Signature	Date	Received By: Signature
[signature]	11/17/06	[signature]
PRINT NAME EHUD ARDON	Time 16:57	PRINT NAME REBEKAH WINKLER
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME
Relinquished By: Signature	Date	Received By: Signature
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled 11/17/06
Notes:
3 Temperature 20°C
4 Received Broken/Leaking (Improperly Sealed)
Y N
Notes:
5 Properly Preserved
Y N
Notes:
6 Received Within Holding Times
Y N
Notes: 11/17/06

COC Tape Was:
1 Present on Outer Package
Y N NA
2 Unbroken on Outer Package
Y N NA
3 Present on Sample
Y N NA
4 Unbroken on Sample
Y N NA
Notes:

Discrepancies Between Sample Labels and COC Record?
Y N
Notes:

AMERICAN WEST ANALYTICAL LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
'oll Free (888) 263-8686
Fax (801) 263-8687
nail: awal@awal-labs.com

January 09, 2007

Ehud Ardon
North American Exploration, Inc.
447 North 300 West, Suite 3
Kaysville, UT 84037-4203

TEL: (801) 569-7869
FAX (801) 569-6854

RE: Daybreak

Lab Set ID: L75606

Dear Ehud Ardon:

American West Analytical Labs received 16 samples on 1/2/2007 for the analyses presented in the following report.

All analyses were performed in accordance to National Environmental Laboratory Accreditation Program (NELAP) protocols unless noted otherwise. If you have any questions or concerns regarding this report please feel free to call.

Thank you.

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Approved by: _____
Laboratory Director or designee

All analysis applicable to the CWA, SDWA and RCRA are performed in accordance to NELAC protocols. Pertinent sampling information is located on the attached Chain-of-Custody. This report is provided for the exclusive use of the addressee. Privileges of subsequent use of the name of this company or any member of its staff, or reproduction of this report in connection with the advertisement, promotion or sale of any product or process, or in connection with the re-publication of this report for any purpose other than for the addressee will be granted only

INORGANIC ANALYSIS REPORT

AMERICAN
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LABORATORIES

463 West 3600 South
Salt Lake City, Utah
84115

(801) 263-8686
ɔll Free (888) 263-8686
Fax (801) 263-8687
ıail: awal@awal-labs.com

Kyle F. Gross
Laboratory Director

Peggy McNicol
QA Officer

Client: North American Exploration, Inc. Contact: Ehud Ardon
Project ID: Daybreak

Lab Sample ID: L75606-08A
Field Sample ID: **GP-7B2-2**
Collected: 8/2/2006 1:06:00 PM
Received: 1/2/2007

TOTAL METALS

Analytical Results	Units	Date Analyzed	Method Used	Reporting Limit	Analytical Results
Arsenic	mg/kg-dry	1/4/2007 12:09:02 PM	6020	0.51	**58**
Lead	mg/kg-dry	1/4/2007 12:09:02 PM	6020	0.51	**110**

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AMERICAN WEST ANALYTICAL LABORATORIES
463 West [illegible] South
Salt Lake C[illegible] Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Dir[illegible]

Peggy McNicol
QA Officer

CLIENT: North American Exploration, Inc. **Contact:** Ehud Ardon
LabOrder: L75606
Project: Daybreak **DateReceived:** 1/2/2007

pH @ 25° C

Lab Sample ID	Sample ID	Date Sampled	Date Analyzed	Method Used	Units	Reporting Limits	Analytical Result	
L75606-01B	EPZ-32.2	6/21/2006 10:52:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	6.53	H
	H - Sample was received outside of holding time.							
L75606-02B	TDZ-6.1	7/28/2006 12:00:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.88	H
	H - Sample was received outside of holding time.							
L75606-03B	TDZ-2.2	7/28/2006 9:32:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.75	H
	H - Sample was received outside of holding time.							
L75606-04B	BDX-8.1	11/2/2006 11:02:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	5.46	H
	H - Sample was received outside of holding time.							
L75606-05B	BD1.3	10/27/2006 3:25:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	5.70	H
	H - Sample was received outside of holding time.							
L75606-06B	MDZ-8.4	10/11/2006 9:26:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.71	H
	H - Sample was received outside of holding time.							
L75606-07B	MDX-1	8/14/2006 11:00:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.11	H
	H - Sample was received outside of holding time.							
L75606-08B	GP-7B2-2	8/2/2006 1:06:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.41	H
	H - Sample was received outside of holding time.							
L75606-09B	AO-28A.4	11/2/2006 1:12:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.13	H
	H - Sample was received outside of holding time.							
L75606-10B	AO-K19.6	8/14/2006 10:40:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	6.30	H
	H - Sample was received outside of holding time.							
L75606-11B	AO-K45B	8/25/2006 11:00:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	7.07	H
	H - Sample was received outside of holding time.							
L75606-12B	AO-K172-X.5	10/16/2006 12:25:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.22	H
	H - Sample was received outside of holding time.							

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463 West 3[illegible] South
Salt Lake C[illegible] Utah 84115
(801) 263-8686, Toll Free (888) 263-8686, Fax (801) 263-8687
e-mail: awal@awal-labs.com, web: www.awal-labs.com

Kyle F. Gross
Laboratory Dir[illegible]

Peggy McNicol
QA Officer

CLIENT: North American Exploration, Inc. **Contact:** Ehud Ardon
LabOrder: L75606
Project: Daybreak **DateReceived:** 1/2/2007

pH @ 25° C

Lab Sample ID	Sample ID	Date Sampled	Date Analyzed	Method Used	Units	Reporting Limits	Analytical Result	
L75606-13B	EPX-216B	8/29/2006 11:05:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.74	H
	H - Sample was received outside of holding time.							
L75606-14B	EPX-220	8/8/2006 9:30:00 AM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.66	H
	H - Sample was received outside of holding time.							
L75606-15B	EPX-239	11/21/2006 12:40:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	4.72	H
	H - Sample was received outside of holding time.							
L75606-16B	EPX-245	11/10/2006 1:30:00 PM	1/2/2007 12:10:00 PM	9045D	pH units	0	3.16	H
	H - Sample was received outside of holding time.							

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American West Analytical Labs

emailed 1/10/07

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-01A	EPZ-32.2	6/21/2006 10:52:00 AM	1/2/2007	1/16/2007	Soil	3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-01B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-02A	TDZ-6.1	7/28/2006 12:00:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-02B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-03A	TDZ-2.2	7/28/2006 9:32:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-03B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-04A	BDX-8.1	11/2/2006 11:02:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-04B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-05A	BD1.3	10/27/2006 3:25:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-05B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-06A	MDZ-8.4	10/11/2006 9:26:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-06A	MDZ-8.4	10/11/2006 9:26:00 AM	1/2/2007	1/16/2007	Soil	PMOIST	Jan. 2 - met	1
L75606-06B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-07A	MDX-1	8/14/2006 11:00:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-07B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-08A	GP-7B2-2	8/2/2006 1:06:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-08B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-09A	AO-28A.4	11/2/2006 1:12:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-09B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-10A	AO-K19.6	8/14/2006 10:40:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-10B				1/16/2007		PH-9045D	Jan. 2 -pH	1
				1/16/2007		Soil_Prep	Jan. 2 -pH	1
L75606-11A	AO-K45B	8/25/2006 11:00:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-11B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1

WORK ORDER Summary

02-Jan-07

Work Order L75606

Client ID: NOR100 **QC Level:** QC 1

Project: Daybreak **Location:** **Contact:** Ehud Ardon

Comments: SHA-; QCLevel: 1 / Footnote report pH received out of hold and sample #1 also out of hold for the metals

Sample ID	Client Sample ID	Collection Date	Date Received	Date Due	Matrix	Test Code	Storage	
L75606-12A	AO-K172-X.5	10/16/2006 12:25:00 PM	1/2/2007	1/16/2007	Soil	3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-12B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-13A	EPX-216B	8/29/2006 11:05:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-13B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-14A	EPX-220	8/8/2006 9:30:00 AM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-14B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-15A	EPX-239	11/21/2006 12:40:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-15B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1
L75606-16A	EPX-245	11/10/2006 1:30:00 PM		1/16/2007		3051A-ICPMS	Jan. 2 - met	1
				1/16/2007		6020-S	Jan. 2 - met	1
				1/16/2007		PMOIST	Jan. 2 - met	1
L75606-16B				1/16/2007		PH-9045D	Jan. 2 - pH	1
				1/16/2007		Soil_Prep	Jan. 2 - pH	1

Client [redacted]IA AMERICAN EXP
Address [redacted]47 N 300 W #3
KAYSVILLE UT 84037
City State Zip
Phone 801.959.6604 Fax

Contact EHUD ARDON
E-mail KEARDON@KENNECOTT.COM
Project Name DAYBREAK
Project Number/P.O.#
Sampler Name EHUD ARDON

A

AMERICAN WEST ANALYTICAL LABORATORIES
463 West 3600 South
Salt Lake City, Utah
84115

CHAIN OF CUSTODY

(801) 263-8686
(888) 263-8686
Fax (801) 263-8687
Email:awal@awal-labs.com

Lab Sample Set # [redacted]6006
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Turn Around Time (Circle One)
1 day 2 day 3 day 4 day 5 day Standard
QC 1 2 2+ 3 3+ 4

Please indicate tests needed below

	Sample ID	Date/Time Collected * per samples DB	Matrix	Number of Containers (Total)	Total As	Total Pb	pH								COMMENTS
1	EPZ-32.2	6-21-06 10:52			✓	✓	✓								
2	TDZ-6.1	7-28-06 12:00			✓	✓	✓								
3	TDZ-2.2	7-28-06 9:32			✓	✓	✓								
4	BDX-8.1	11-2-06 11:02			✓	✓	✓								
5	BD1.3	10-27-06 3:25			✓	✓	✓								
6	MDZ-8.4	10-11-06 9:26			✓	✓	✓								
7	MDX-1	8-14-06 11:00			✓	✓	✓								
8	GP-7B2.2	8-2-06 1:06			✓	✓	✓								
9	AO-28A.4	11-02-06 1:12			✓	✓	✓								
10	AO-K19.6	8-14-06 10:40			✓	✓	✓								
11	AO-K45B	8-25-06 11:00			✓	✓	✓								
12	AO-K172-X.5	10-16-06 12:25			✓	✓	✓								

Relinquished By: *Signature*	Date	Received By: *Signature*
Ehud Ardon	1/2/07	Lynn Turner
PRINT NAME EHUD ARDON	Time 7:44	PRINT NAME Lynn Turner
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME
Relinquished By: *Signature*	Date	Received By: *Signature*
PRINT NAME	Time	PRINT NAME

Special Instructions:

LABORATORY USE ONLY

SAMPLES WERE:
1 Shipped or hand delivered
Notes:
2 Ambient or Chilled
Notes:
3 Temperature 19.5
4 Received Broken/Leaking (Improperly Sealed) Y N
Notes:
5 Properly Preserved Y N DB
Notes: pH out of hold
6 Received Within Holding Times Y N
Notes: #1A metals out of hold

COC Tape Was:
1 Present on Outer Package Y N NA
2 Unbroken on Outer Package Y N NA
3 Present on Sample Y N NA
4 Unbroken on Sample Y N NA
Notes: DB

Discrepancies Between Sample Labels and COC Record? Y N
Notes: