

Bill Walker
Walker and Associates
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July 07, 2004

cc: Lara Pucik Christensen

Project ID: Yerington Mine
ACZ Project ID: L46419

Bill Walker:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 25, 2004. This project has been assigned to ACZ's project number, L46419. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 10.0. The enclosed results relate only to the samples received under L46419. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

This report shall be used or copied only in its entirety. ACZ is not responsible for the consequences arising from the use of a partial report.

All samples and sub-samples associated with this project will be disposed of after August 07, 2004. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years. Please notify your Project Manager if you have other needs.

If you have any questions, please contact your Project Manager or Customer Service Representative.



Walker and Associates

July 07, 2004

Project ID: Yerington Mine

ACZ Project ID: L46419

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 9 soil samples from Walker and Associates on June 25, 2004. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L46419. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic, radiochemistry parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The following anomaly required further explanation not provided by the Extended Qualifier Report:

1. For Gross Alpha, the Matrix Spike (MS) recovery was out of control limits. Different splits of a soil sample are prepped for the sample and then the same sample spiked. It appears that the spike recovery problem is due to a non-homogenous sample matrix.

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAG-AP10

ACZ Sample ID: **L46419-01**
Date Sampled: 06/23/04 17:15
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	80		*	mg/Kg	10	50	07/02/04 18:47	jb
Uranium, total (3050)	M6020 ICP-MS	177		*	mg/Kg	0.5	3	07/02/04 18:47	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.2			%	0.1	0.5	06/28/04 11:18	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:00	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/28/04 16:38	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 11:36	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:00	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-HH1

ACZ Sample ID: **L46419-02**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	20	B	*	mg/Kg	10	50	07/02/04 19:14	jb
Uranium, total (3050)	M6020 ICP-MS	4.1		*	mg/Kg	0.5	3	07/02/04 19:14	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	99.4			%	0.1	0.5	06/28/04 11:36	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:07	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/28/04 21:04	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 13:13	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:07	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-HH2

ACZ Sample ID: **L46419-03**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	50	B	*	mg/Kg	10	50	07/02/04 19:25	jb
Uranium, total (3050)	M6020 ICP-MS	5.7		*	mg/Kg	0.5	3	07/02/04 19:25	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.7			%	0.1	0.5	06/28/04 11:54	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:15	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 1:29	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 13:46	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:15	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-DP2

ACZ Sample ID: **L46419-04**
Date Sampled: 06/23/04 17:09
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	170		*	mg/Kg	10	50	07/02/04 19:31	jb
Uranium, total (3050)	M6020 ICP-MS	13.9		*	mg/Kg	0.5	3	07/02/04 19:31	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.6			%	0.1	0.5	06/28/04 12:12	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:22	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 5:55	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 14:18	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:22	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-DP4

ACZ Sample ID: **L46419-05**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	1350		*	mg/Kg	10	50	07/02/04 19:36	jb
Uranium, total (3050)	M6020 ICP-MS	31.1		*	mg/Kg	0.5	3	07/02/04 19:36	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.4			%	0.1	0.5	06/28/04 12:30	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:30	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 8:08	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 14:50	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:30	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: VLT-DA3

ACZ Sample ID: **L46419-06**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	20	B	*	mg/Kg	10	50	07/02/04 19:41	jb
Uranium, total (3050)	M6020 ICP-MS	2.2	B	*	mg/Kg	0.5	3	07/02/04 19:41	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.7			%	0.1	0.5	06/28/04 12:48	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:37	rsr
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 15:23	es
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 10:21	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:37	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-DP11

ACZ Sample ID: **L46419-07**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	410		*	mg/Kg	10	50	07/02/04 19:47	jb
Uranium, total (3050)	M6020 ICP-MS	430		*	mg/Kg	0.5	3	07/02/04 19:47	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.9			%	0.1	0.5	06/28/04 13:06	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:45	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 12:34	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 15:55	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:45	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAO-DP14

ACZ Sample ID: **L46419-08**
Date Sampled: 06/23/04 18:25
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	120		*	mg/Kg	10	50	07/02/04 19:52	jb
Uranium, total (3050)	M6020 ICP-MS	99.5		*	mg/Kg	0.5	3	07/02/04 19:52	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.1			%	0.1	0.5	06/28/04 13:24	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 8:52	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 14:47	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 16:27	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 8:52	es

Walker and Associates

Project ID: Yerington Mine
Sample ID: PAG-G12

ACZ Sample ID: **L46419-09**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Thorium, total (3050)	M6020 ICP-MS	10	B	*	mg/Kg	10	50	07/02/04 19:58	jb
Uranium, total (3050)	M6020 ICP-MS	1.8	B	*	mg/Kg	0.5	3	07/02/04 19:58	jb

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.9			%	0.1	0.5	06/28/04 13:42	es/rsr

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972							06/26/04 9:00	rsr
Digestion - Hot Plate	M3050B for Rad Chem							06/29/04 16:59	es
Digestion - Hot Plate	M3050B ICP-MS							06/28/04 16:59	es
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2							06/28/04 9:00	es

Report Header Explanations

<i>Batch</i>	A distinct set of samples analyzed at a specific time
<i>Found</i>	Value of the QC Type of interest
<i>Limit</i>	Upper limit for RPD, in %.
<i>Lower</i>	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
<i>MDL</i>	Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.
<i>PCN/SCN</i>	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
<i>PQL</i>	Practical Quantitation Limit, typically 5 times the MDL.
<i>QC</i>	True Value of the Control Sample or the amount added to the Spike
<i>Rec</i>	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
<i>RPD</i>	Relative Percent Difference, calculation used for Duplicate QC Types
<i>Upper</i>	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
<i>Sample</i>	Value of the Sample of interest

QC Sample Types

<i>AS</i>	Analytical Spike (Post Digestion)	<i>LCSWD</i>	Laboratory Control Sample - Water Duplicate
<i>ASD</i>	Analytical Spike (Post Digestion) Duplicate	<i>LFB</i>	Laboratory Fortified Blank
<i>CCB</i>	Continuing Calibration Blank	<i>LFM</i>	Laboratory Fortified Matrix
<i>CCV</i>	Continuing Calibration Verification standard	<i>LFMD</i>	Laboratory Fortified Matrix Duplicate
<i>DUP</i>	Sample Duplicate	<i>LRB</i>	Laboratory Reagent Blank
<i>ICB</i>	Initial Calibration Blank	<i>MS</i>	Matrix Spike
<i>ICV</i>	Initial Calibration Verification standard	<i>MSD</i>	Matrix Spike Duplicate
<i>ICSAB</i>	Inter-element Correction Standard - A plus B solutions	<i>PBS</i>	Prep Blank - Soil
<i>LCSS</i>	Laboratory Control Sample - Soil	<i>PBW</i>	Prep Blank - Water
<i>LCSSD</i>	Laboratory Control Sample - Soil Duplicate	<i>PQV</i>	Practical Quantitation Verification standard
<i>LCSW</i>	Laboratory Control Sample - Water	<i>SDL</i>	Serial Dilution

QC Sample Type Explanations

Blanks	Verifies that there is no or minimal contamination in the prep method or calibration procedure.
Control Samples	Verifies the accuracy of the method, including the prep procedure.
Duplicates	Verifies the precision of the instrument and/or method.
Spikes/Fortified Matrix	Determines sample matrix interferences, if any.
Standard	Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
R	Poor spike recovery accepted because the other spike in the set fell within the given limits.
T	High Relative Percent Difference (RPD) accepted because sample concentrations are less than 10x the MDL.
U	Analyte was analyzed for but not detected at the indicated MDL
V	High blank data accepted because sample concentration is 10 times higher than blank concentration
W	Poor recovery for Silver quality control is accepted because Silver often precipitates with Chloride.
X	Quality control sample is out of control.
Z	Poor spike recovery is accepted because sample concentration is four times greater than spike concentration.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
(3)	EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples - Supplement I, May 1994.
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
(6)	Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.

Walker and Associates
 Project ID: Yerington Mine

ACZ Project ID: **L46419**

Solids, Percent CLPSOW390, PART F, D-98

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG174165													
WG174165PBS	PBS	06/28/04 11:00				U	%		99.9	100.1			
L46419-09DUP	DUP	06/28/04 14:00			98.9	98.72	%				0.2	20	

Thorium, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG174404													
WG174404ICV	ICV	07/02/04 17:59	MS040621-1	.02		.0195	mg/L	97.5	90	110			
WG174404ICB	ICB	07/02/04 18:04				.0011	mg/L		-0.003	0.003			
WG174175PBS	PBS	07/02/04 18:31				.51	mg/Kg		-1.5	1.5			
L46419-01MS	MS	07/02/04 18:52	MS040614-4	252.2475	80	78	mg/Kg	-0.8	75	125			M4
L46419-01MSD	MSD	07/02/04 18:58	MS040614-4	252.2475	80	77	mg/Kg	-1.2	75	125	1.29	20	M4

Uranium, total (3050) M6020 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG174404													
WG174404ICV	ICV	07/02/04 17:59	MS040621-1	.02		.0204	mg/L	102	90	110			
WG174404ICB	ICB	07/02/04 18:04				.00007	mg/L		-0.00015	0.00015			
WG174175PBS	PBS	07/02/04 18:31				U	mg/Kg		-0.09	0.09			
WG174175LCSS	LCSS	07/02/04 18:37	PCN20165	25		21.18	mg/Kg		20	30			
WG174175LCSSD	LCSSD	07/02/04 18:42	PCN20165	25		20.22	mg/Kg		20	30	4.6	20	
L46419-01MS	MS	07/02/04 18:52	MS040614-4	252.5	177	172.91	mg/Kg	-1.6	75	125			M4
L46419-01MSD	MSD	07/02/04 18:58	MS040614-4	252.5	177	176.35	mg/Kg	-0.3	75	125	1.97	20	M4

Walker and Associates

ACZ Project ID: **L46419**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L46419-01	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-02	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-03	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-04	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-05	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-06	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-07	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.

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ACZ Project ID: **L46419**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L46419-08	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
L46419-09	WG174404	Thorium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.
			M6020 ICP-MS	ZB	The ICP-MS Serial Dilution was not evaluated because the sample concentration was less than 100 times the MDL.
		Uranium, total (3050)	M6020 ICP-MS	M4	The analysis of the spiked sample required a dilution such that the spike concentration was diluted below the reporting limit. The method control sample recovery was acceptable.

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAG-AP10ACZ Sample ID: **L46419-01**
Date Sampled: 06/23/04 17:15
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	242	16	2.2	*	pCi/g	06/28/04 21:37	grb
Prep:	M3050B ICP-MS						06/28/04 16:38	es
Gross Beta	M9310	152	7.8	3.9	*	pCi/g	06/28/04 21:37	grb
Prep:	M3050B ICP-MS						06/28/04 16:38	es
Radium 226 (3050)	M9315	16.7	1.3	0.8	*	pCi/g	07/02/04 9:49	ccp
Prep:	M3050B ICP-MS						06/28/04 16:38	es
Radium 228 (3050)	M9320	9.25	1.7	2.8		pCi/g	07/02/04 9:47	ccp
Prep:	M3050B ICP-MS						06/28/04 16:38	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-HH1ACZ Sample ID: **L46419-02**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	325	8.4	0.4	*	pCi/g	06/28/04 21:38	grb
Prep:	M3050B ICP-MS						06/28/04 21:04	es
Gross Beta	M9310	262	4.5	0.8	*	pCi/g	06/28/04 21:38	grb
Prep:	M3050B ICP-MS						06/28/04 21:04	es
Radium 226 (3050)	M9315	12.9	1.2	1	*	pCi/g	07/02/04 9:50	ccp
Prep:	M3050B ICP-MS						06/28/04 21:04	es
Radium 228 (3050)	M9320	2.8	1.4	2.8		pCi/g	07/02/04 9:49	ccp
Prep:	M3050B ICP-MS						06/28/04 21:04	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-HH2ACZ Sample ID: **L46419-03**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	55.3	3.6	0.5	*	pCi/g	06/28/04 21:40	grb
Prep:	M3050B ICP-MS						06/29/04 1:29	es
Gross Beta	M9310	35.4	1.7	0.8	*	pCi/g	06/28/04 21:40	grb
Prep:	M3050B ICP-MS						06/29/04 1:29	es
Radium 226 (3050)	M9315	37.9	2	0.9	*	pCi/g	07/02/04 9:52	ccp
Prep:	M3050B ICP-MS						06/29/04 1:29	es
Radium 228 (3050)	M9320	4.55	1.5	2.8		pCi/g	07/02/04 9:50	ccp
Prep:	M3050B ICP-MS						06/29/04 1:29	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-DP2ACZ Sample ID: **L46419-04**
Date Sampled: 06/23/04 17:09
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	194	6.9	0.5	*	pCi/g	06/28/04 21:41	grb
Prep:	M3050B ICP-MS						06/29/04 5:55	es
Gross Beta	M9310	85.4	2.7	0.9	*	pCi/g	06/28/04 21:41	grb
Prep:	M3050B ICP-MS						06/29/04 5:55	es
Radium 226 (3050)	M9315	24.9	1.8	1.1	*	pCi/g	07/02/04 9:53	ccp
Prep:	M3050B ICP-MS						06/29/04 5:55	es
Radium 228 (3050)	M9320	16.3	2.1	2.9		pCi/g	07/02/04 9:52	ccp
Prep:	M3050B ICP-MS						06/29/04 5:55	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-DP4ACZ Sample ID: **L46419-05**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	1440	30	1.2	*	pCi/g	06/28/04 21:43	grb
Prep:	M3050B ICP-MS						06/29/04 8:08	es
Gross Beta	M9310	592	11	2.2	*	pCi/g	06/28/04 21:43	grb
Prep:	M3050B ICP-MS						06/29/04 8:08	es
Radium 226 (3050)	M9315	157	4.8	1.3	*	pCi/g	07/02/04 9:55	ccp
Prep:	M3050B ICP-MS						06/29/04 8:08	es
Radium 228 (3050)	M9320	139	5.2	3.2		pCi/g	07/02/04 9:53	ccp
Prep:	M3050B ICP-MS						06/29/04 8:08	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: VLT-DA3ACZ Sample ID: **L46419-06**
Date Sampled: 06/24/04 12:31
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	15	1.9	0.4	*	pCi/g	06/28/04 21:44	grb
Prep:	M3050B ICP-MS						06/29/04 10:21	es
Gross Beta	M9310	11.8	1.1	0.8	*	pCi/g	06/28/04 21:44	grb
Prep:	M3050B ICP-MS						06/29/04 10:21	es
Radium 226 (3050)	M9315	4.21	0.7	0.9	*	pCi/g	07/02/04 9:56	ccp
Prep:	M3050B ICP-MS						06/29/04 10:21	es
Radium 228 (3050)	M9320	4.55	1.5	2.9		pCi/g	07/02/04 9:55	ccp
Prep:	M3050B ICP-MS						06/29/04 10:21	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-DP11ACZ Sample ID: **L46419-07**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	736	15	0.6	*	pCi/g	06/28/04 21:45	grb
Prep:	M3050B ICP-MS						06/29/04 12:34	es
Gross Beta	M9310	391	6	1	*	pCi/g	06/28/04 21:45	grb
Prep:	M3050B ICP-MS						06/29/04 12:34	es
Radium 226 (3050)	M9315	76	3.2	1.2	*	pCi/g	07/02/04 9:57	ccp
Prep:	M3050B ICP-MS						06/29/04 12:34	es
Radium 228 (3050)	M9320	4.1	1.5	2.8		pCi/g	07/02/04 9:56	ccp
Prep:	M3050B ICP-MS						06/29/04 12:34	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAO-DP14ACZ Sample ID: **L46419-08**
Date Sampled: 06/23/04 18:25
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	199	6.6	0.4	*	pCi/g	06/28/04 21:47	grb
Prep:	M3050B ICP-MS						06/29/04 14:47	es
Gross Beta	M9310	107	2.8	0.8	*	pCi/g	06/28/04 21:47	grb
Prep:	M3050B ICP-MS						06/29/04 14:47	es
Radium 226 (3050)	M9315	26.2	2.1	1.5	*	pCi/g	07/02/04 9:59	ccp
Prep:	M3050B ICP-MS						06/29/04 14:47	es
Radium 228 (3050)	M9320	7.47	1.7	3		pCi/g	07/02/04 9:57	ccp
Prep:	M3050B ICP-MS						06/29/04 14:47	es

Walker and AssociatesProject ID: Yerington Mine
Sample ID: PAG-G12ACZ Sample ID: **L46419-09**
Date Sampled: 06/23/04 16:30
Date Received: 06/25/04
Sample Matrix: Soil

Radiochemistry

Parameter	EPA Method	Result	Error(+/-)	LLD	XQ	Units	Date	Analyst
Gross Alpha	M9310	7.86	1.4	0.4	*	pCi/g	06/28/04 21:48	grb
Prep:	M3050B ICP-MS						06/29/04 16:59	es
Gross Beta	M9310	7.96	0.9	0.8	*	pCi/g	06/28/04 21:48	grb
Prep:	M3050B ICP-MS						06/29/04 16:59	es
Radium 226 (3050)	M9315	3.34	0.7	1.1	*	pCi/g	07/02/04 10:00	ccp
Prep:	M3050B ICP-MS						06/29/04 16:59	es
Radium 228 (3050)	M9320	1.75	1.4	2.9		pCi/g	07/02/04 9:59	ccp
Prep:	M3050B ICP-MS						06/29/04 16:59	es



Report Header Explanations

Table with 2 columns: Term and Definition. Includes terms like Batch, Error(+/-), Found, Limit, LCL, LLD, PCN/SCN, PQL, QC, Rec, RER, UCL, and Sample.

QC Sample Types

Table with 4 columns: Term, Description, Term, Description. Includes DUP, LCSS, LCSW, MS/MSD, PBS, and PBW.

QC Sample Type Explanations

Table with 2 columns: Term and Definition. Includes Blanks, Control Samples, Duplicates, and Matrix Spikes.

ACZ Qualifiers (Qual)

Table with 2 columns: Qualifier and Definition. Includes H, R, T, U, V, X, and Z.

Method Prefix Reference

Table with 2 columns: Prefix and Reference. Includes M, SM, D, RP, and ESM.

Comments

- (1) Solid matrices are reported on a dry weight basis.
(2) Preparation method: "Method" indicates preparation defined in analytical method.
(3) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.

Walker and Associates

ACZ Project ID: **L46419**

Project ID: Yerington Mine

Alpha		M9310								pCi/g				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	Found	Error	Rec	Lower	Upper	RER	Limit	Qual
WG174322														
WG174174PBS	PBS	06/28/04					.44	0.42			0.7			
WG174174LCSS	LCSS	06/28/04	RC030916-2	24.56			21.1	2	85.9	64	104			
L46419-01DUP	DUP	06/28/04			242	16	231	16				0.14	1.0	
L46419-02MS	MS	06/28/04	RC030916-2	16.21	325	8.4	39.3	2.9	-1762.3	43	142			N1
WG174220PBS	PBS	06/28/04					.59	0.29			0.38			B7

Beta		M9310								pCi/g				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	Found	Error	Rec	Lower	Upper	RER	Limit	Qual
WG174322														
WG174174PBS	PBS	06/28/04					.03	0.7			2			
WG174174LCSS	LCSS	06/28/04	PCN19872	30.3			33.4	2.1	110.2	83	123			
L46419-01DUP	DUP	06/28/04			152	7.8	158	7.9				0.12	1.0	
L46419-03MS	MS	06/28/04	PCN19872	20	35.4	1.7	46.3	1.8	54.5	71	128			M2
WG174220PBS	PBS	06/28/04					1.2	0.54			1.36			

Radium 226 (3050)		M9315								pCi/g				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	Found	Error	Rec	Lower	Upper	RER	Limit	Qual
WG174476														
WG174174PBS	PBS	07/02/04					.31	0.29			1.68			
WG174174LCSS	LCSS	07/02/04	RC040317-1	18.52			18.8	1.1	101.5	65	142			
L46419-01DUP	DUP	07/02/04			16.7	1.3	21.4	1.5				0.74	1.0	
L46419-02MS	MS	07/02/04	RC040317-1	37.03	12.9	1.2	72.6	2.8	161.2	57	145			M1

Radium 228 (3050)		M9320								pCi/g				
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Error	Found	Error	Rec	Lower	Upper	RER	Limit	Qual
WG174467														
WG174174PBS	PBS	07/02/04					1.83	0.77			2			
WG174174LCSS	LCSS	07/02/04	RC030611-2	8.76			9.37	1	107	52	180			
L46419-01DUP	DUP	07/02/04			9.25	1.7	6.11	1.6				0.78	1.0	
L46419-02DUP	DUP	07/02/04			2.8	1.4	1.65	1.3				0.41	1.0	
L46419-03MS	MS	07/02/04	RC030611-2	17.51	4.55	1.5	20.5	2.2	91.1	52	148			
WG174270PBS	PBS	07/02/04					.36	0.68			2			
WG174270LCSS	LCSS	07/02/04	RC030611-2	8.76			9	1.1	102.8	52	180			

Walker and Associates

ACZ Project ID: **L46419**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L46419-01	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
			M9310	N1	See case narrative.
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
				M9310	M2
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L46419-02	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
			M9310	N1	See case narrative.
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
				M9310	M2
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L46419-03	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
			M9310	N1	See case narrative.
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
				M9310	M2
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.
L46419-04	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
			M9310	N1	See case narrative.
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
				M9310	M2
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.

Walker and Associates

ACZ Project ID: **L46419**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION	
L46419-05	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
			M9310	N1	See case narrative.	
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
				M9310	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.	
L46419-06	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
			M9310	N1	See case narrative.	
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
				M9310	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.	
L46419-07	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
			M9310	N1	See case narrative.	
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
				M9310	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.	
L46419-08	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
			M9310	N1	See case narrative.	
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.	
				M9310	M2	Matrix spike recovery was low, the method control sample recovery was acceptable.
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.	

Walker and Associates

ACZ Project ID: **L46419**

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L46419-09	WG174322	Gross Alpha	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
			M9310	N1	See case narrative.
		Gross Beta	M9310	B7	Target analyte detected in method blank at or above method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
				M9310	M2
	WG174476	Radium 226 (3050)	M9315	M1	Matrix spike recovery was high, the method control sample recovery was acceptable.

Walker and Associates

ACZ Project ID: L46419
 Date Received: 6/25/2004
 Received By:

Receipt Verification

	YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?			X
2) Are the custody seals on the cooler intact?			X
3) Are the custody seals on the sample containers intact?			X
4) Is there a Chain of Custody or other directive shipping papers present?	X		
5) Is the Chain of Custody complete?	X		
6) Is the Chain of Custody in agreement with the samples received?	X		
7) Is there enough sample for all requested analyses?	X		
8) Are all samples within holding times for requested analyses?	X		
9) Were all sample containers received intact?	X		
10) Are the temperature blanks present?		X	
11) Are the trip blanks (VOA and/or Cyanide) present?			X
12) Are samples requiring no headspace, headspace free?			X
13) Do the samples that require a Foreign Soils Permit have one?			X

Exceptions: If you answered no to any of the above questions, please describe

N/A

Contact (For any discrepancies, the client must be contacted)

N/A

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
ACZ	20.3	15

Client must contact ACZ Project Manager if analysis should not proceed for samples received outside of thermal preservation acceptance criteria.

Notes

Walker and Associates

ACZ Project ID: L46419
 Date Received: 6/25/2004
 Received By:

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	Y < 2	YG < 2	B < 2	BG < 2	O < 2	T > 12	P > 12	N/A	RAD
L46419-01	PAG-AP-10										Ö	
L46419-02	PAO-HH-1										Ö	
L46419-03	PAO-HH-2										Ö	
L46419-04	PAO-DP-2										Ö	
L46419-05	PAO-DP-4										Ö	
L46419-06	VLT-DA-3										Ö	
L46419-07	PAO-DP-11										Ö	
L46419-08	PAO-DP-14										Ö	
L46419-09	PAG-G-12										Ö	

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 3
B	Filtered/Sulfuric	BLUE	pH must be < 2
BG	Filtered/Sulfuric	BLUE GLASS	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
O	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Y	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 µR/hr

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L 46419

CHAIN of CUSTODY

Report to:

Name: <i>Bill Walker</i>	Address: <i>2618 J St Suite 1</i>
Company: <i>Walker + Assoc. Inc</i>	<i>SAC, CA 95816</i>
E-mail: <i>laia@walkercochem.com</i>	Telephone: <i>916 442-5304</i>

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: <i>Bill Walker</i>	Address: <i>2618 J St Suite 1</i>
Company: <i>Walker & Assoc Inc</i>	<i>Sacramento, CA 95816</i>
E-mail:	Telephone: <i>916 442-5304</i>

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
 Project/PO #: *Yerington Mine*
 Shipping Co.:
 Tracking #:
 Reporting State for compliance testing:

# of Containers	Gross alpha	Gross gamma	Metals						

SAMPLE IDENTIFICATION **DATE: TIME** **Matrix**

<i>1) PAG-AP10</i>	<i>6/23/04</i>	<i>5:15 pm</i>	<i>Soil</i>										
<i>PAG-AP7</i>													
<i>PAG-M03</i>													
<i>PAG-N06</i>													
<i>PAG-J6</i>													
<i>PAG-J9</i>													
<i>PAG-AP9</i>													
<i>PAG-II4</i>													
<i>PAG-N03</i>													
<i>PAG-M05</i>													
<i>PAG-G15</i>													
<i>PAG-M01</i>													

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

** Metal leached after gross
 2 + 3 counts*

RELINQUISHED BY:	DATE: TIME	RECEIVED BY:	DATE: TIME	PAGE
<i>[Signature]</i>	<i>6/24 1:31</i>	<i>CPO</i>	<i>6/25/04 1000</i>	2
				of
				2

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L 40419

CHAIN of CUSTODY

Report to:

Name: Bill Walker	Address: 2618 J. St. Suite 1
Company: Walker & Assoc. Inc.	Sacramento CA 95816
E-mail: lava@walkergeo-hem.com	Telephone: 916-442-5304

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: Bill Walker	Address: 2618 J. St. Suite 1
Company: Walker & Assoc. Inc.	Sacramento CA 95816
E-mail:	Telephone: 916-442-5304

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:	<table border="1"> <tr> <th># of Containers</th> <th>Gross Alpha</th> <th>Gross Gamma</th> <th>Metals *</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> </tr> <tr> <td>1</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	# of Containers	Gross Alpha	Gross Gamma	Metals *							1									
# of Containers		Gross Alpha	Gross Gamma	Metals *																	
1																					
Project/PO #: Yerington Mine																					
Shipping Co.:																					
Tracking #:																					
Reporting State for compliance testing:																					

SAMPLE IDENTIFICATION **DATE:TIME** **Matrix**

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Gross Alpha	Gross Gamma	Metals *							
SP-07	6/24/04 12:51pm	soil	1										
SP-04													
SP-05													
SP-02													
6 VLT-DA3													
PAC-MPO4													
VLT-E3													
3) PAC-AH2													
2) PAO-AH1													

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

* Metals after gross alpha & gamma

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME	PAGE
Bill Walker	6/24 12:56	cm	6/25/04 1:00	1
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				1

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L 46419

CHAIN of CUSTODY

Report to:

Name: Bill Walker
 Company: Walker & Assoc. Inc
 E-mail: lara@walkergeochem.com

Address: 2618 J St Suite 1
Sacramento, CA 95816
 Telephone: 916 442-5304

Copy of Report to:

Name: _____
 Company: _____

E-mail: _____
 Telephone: _____

Invoice to:

Name: Bill Walker
 Company: Walker & Assoc. Inc
 E-mail: _____

Address: 2618 J St. Suite 1
Sacramento, CA 95816
 Telephone: 916 442-5304

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #: _____
 Project/PO #: Yerington, MINE
 Shipping Co.: _____
 Tracking #: _____
 Reporting State for compliance testing: _____

# of Containers	gross alpha	gross gamma	Metals						

SAMPLE IDENTIFICATION

SAMPLE IDENTIFICATION	DATE: TIME	Matrix
PAG-L03	6/24/04 5:00pm	Soil
PAG-N02		
PAG-L02		
PAG-N05		
PAG-AP3		
PAG-AP5		
PAG-AP11		
PAG-L01		
PAG-AP2		
4 PA0-DP2		

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

* Metals decided after gross counts

RELINQUISHED BY:

DATE: TIME

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DATE: TIME

PAGE

Bill Walker

6/24 / 11:32

cm

6/25/04 10:00

1
or
2

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L46419

CHAIN of CUSTODY

Report to:

Name: <i>Bill Walker</i>	Address: <i>2618 J St. Suite 1</i>
Company: <i>Bill Walker & Assoc, Inc</i>	<i>SAC, CA 95816</i>
E-mail: <i>Lara @ WALKERgeochem.com</i>	Telephone: <i>916 442-5304</i>

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: <i>Bill Walker</i>	Address: <i>2618 J St Suite 1</i>
Company: <i>Walker & Assoc, Inc</i>	<i>SACramento, CA 95816</i>
E-mail:	Telephone: <i>916 442 5304</i>

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:	# of Containers	gross alpha	gross gamma	metals									
Project/PO #:													
Shipping Co.:													
Tracking #:													
Reporting State for compliance testing:													

SAMPLE IDENTIFICATION

DATE: TIME

Matrix

SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	gross alpha	gross gamma	metals					
PAG-NO4	6/23/04 4:30	SW	1	↓	↓	↓					
PAG-DP5				↓	↓	↓					
PAG-API				↓	↓	↓					
PA0-DPI2				↓	↓	↓					
PAG-II2				↓	↓	↓					
PA0-DPI1				↓	↓	↓					
PAG-G13				↓	↓	↓					
PAG-II3				↓	↓	↓					
PAG-AP8				↓	↓	↓					
PAG-AP6				↓	↓	↓					
PAG-AP4				↓	↓	↓					
PAG-II1				↓	↓	↓					

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

* Metals determined after gross alpha/gamma

Walker

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DATE: TIME

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<i>Bill Walker</i>	6/24 1:15	<i>AW</i>	6/25/04 10:00	2
				OF
				2

Walker

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L 46419

CHAIN of CUSTODY

Report to:

Name: Bill Walker
 Company: Walker & Assoc. Inc.
 E-mail: lara@walkergeochem.com

Address: 2618 J St. Suite 1
Sacramento CA 95816
 Telephone: 916-442-5304

Copy of Report to:

Name:
 Company:

E-mail:
 Telephone:

Invoice to:

Name: Bill Walker
 Company: Walker & Assoc., Inc.
 E-mail:

Address: 2618 J. St. Suite 1
Sacramento CA 95816
 Telephone: 916-442-5304

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
 Project/PO #: Yerington Mine
 Shipping Co.:
 Tracking #:
 Reporting State for compliance testing:

# of Containers	gross alpha	gross gamma	metals*						

SAMPLE IDENTIFICATION **DATE: TIME** **Matrix**

PAG-605	6/23/04 6:25pm	gll
PAG-H10		
PAG-H11		
PAG-H12		
PAG-H08		
PAG-H04		
PAG-H06		
PAO-DP14		
PAG-609		
PAO-DP16		
PAG-I11		
PAG-I12		

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

* Metals to be determined g/l gross α & β manual

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DATE: TIME

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DATE: TIME

PAGE

<u>Bill Walker</u>	<u>6/24 2:30pm</u>	<u>emo</u>	<u>6/25/04 1000</u>

1
 of
 1

ACZ Laboratories, Inc.

2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

L46419

CHAIN of CUSTODY

Report to:

Name: <u>Bill Walker</u>	Address: <u>2618 J St. Suite 1</u>
Company: <u>Walker & Assoc. Inc</u>	<u>Sacramento, CA 95816</u>
E-mail: <u>lara@walkergeochem.com</u>	Telephone: <u>916 442-5304</u>

Copy of Report to:

Name:	E-mail:
Company:	Telephone:

Invoice to:

Name: <u>Bill Walker</u>	Address: <u>2618 J St Suite 1</u>
Company: <u>Walker & Assoc. Inc</u>	<u>Sacramento, CA 95816</u>
E-mail:	Telephone: <u>916 442-5304</u>

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:	<table border="1"> <tr> <td># of Containers</td> <td>gross alpha</td> <td>gross gamma</td> <td>Metals *</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> </table>	# of Containers	gross alpha	gross gamma	Metals *						
# of Containers		gross alpha	gross gamma	Metals *							
Project/PO #: <u>Yerington Mine</u>											
Shipping Co.:											
Tracking #:											
Reporting State for compliance testing:											

SAMPLE IDENTIFICATION	DATE: TIME	Matrix	# of Containers	gross alpha	gross gamma	Metals *					
PAO-DP10	4:30/6/23/07	Soil	1								
PAO-DP3											
PAO-DP1											
PAG-G08											
9) PAG-G12											
PAG-G11											
5 PAO-DP4											
PAG-G10											
PAG-G14											
PAO-DP13											
PAG-H14											
PAG-F13											

Matrix SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify)

REMARKS

* Sample for metals determined from gross α + β counts

RELINQUISHED BY:	DATE: TIME	RECEIVED BY:	DATE: TIME	PAGE
<u>Bill Walker</u>	<u>6/24 2:30</u>	<u>CMO</u>	<u>6/25/07 1000</u>	1
				OF
				2

