

**Appendix C**  
**Data Verification Reports**

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**FMI Sierrita Voluntary Remediation Program**  
(Click On Sample Number or Laboratory ID In Index To Connect To Verification Report)

ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
L70511	CP-JS-03-0-1	L70511-01	CLEAR Plant	
	CP-JS-03-1-3	L70511-02	CLEAR Plant	
	CP-JS-03-5-7	L70511-03	CLEAR Plant	
	E-JS-02-0-1	L70511-04	E Pond	
	E-JS-02-1-3	L70511-05	E Pond	
	E-JS-01-0-1	L70511-06	E Pond	
	E-JS-01-1-3	L70511-07	E Pond	
	E-JS-01-5-7	L70511-08	E Pond	
	EV-JS-01-0-1	L70511-09	Evaporation Pond	
	EV-JS-01-1-3	L70511-10	Evaporation Pond	
L70512	CP-N08-1-3	L70512-01	CLEAR Plant	
	CP-N08-5-7	L70512-02	CLEAR Plant	
	CP-N08-10-11	L70512-03	CLEAR Plant	
	CP-O09-0-1	L70512-04	CLEAR Plant	
	CP-O09-1-3	L70512-05	CLEAR Plant	
	CP-O09-5-7	L70512-06	CLEAR Plant	
	CP-O09-10-10	L70512-07	CLEAR Plant	
	CP-O09-15-17	L70512-08	CLEAR Plant	
	CP-M04-0-1	L70512-09	CLEAR Plant	
	CP-M04-1-2.5	L70512-10	CLEAR Plant	
	CP-M04-5-5.4	L70512-11	CLEAR Plant	
	CP-003-0-1	L70512-12	CLEAR Plant	
	CP-003-1-3	L70512-13	CLEAR Plant	
	CP-M06-0-1	L70512-14	CLEAR Plant	
	CP-M06-1-3	L70512-15	CLEAR Plant	
	CP-JS-02-0-1	L70512-16	CLEAR Plant	
	CP-JS-02-1-3	L70512-17	CLEAR Plant	
	CP-N08-0-1	L70512-18	CLEAR Plant	
L70514	EV-JS-01-5-7	L70514-01	Evaporation Pond	
	EV-JS-02-0-1	L70514-02	Evaporation Pond	
	EV-JS-02-1-3	L70514-03	Evaporation Pond	
	EV-JS-02-5-7	L70514-04	Evaporation Pond	
L70543	CP-JS-01-0-1	L70543-01	CLEAR Plant	
	CP-JS-01-1-3	L70543-02	CLEAR Plant	
	CP-JS-01-5-7	L70543-03	CLEAR Plant	
	CP-JS-01-10-12	L70543-04	CLEAR Plant	
	CP-P04-0-1	L70543-05	CLEAR Plant	
	CP-P04-1-3	L70543-06	CLEAR Plant	
	CP-P05-0-1	L70543-07	CLEAR Plant	
	CP-P05-1-3	L70543-08	CLEAR Plant	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
L70544	CP-SD-01-0-1.5	L70544-01	CLEAR Plant	
	CP-SD-01-1.5-3.0	L70544-02	CLEAR Plant	
	CP-SD-02-0-1.5	L70544-03	CLEAR Plant	
	CP-SD-02-1.5-3.0	L70544-04	CLEAR Plant	
	CP-SD-06-0-1.5	L70544-05	CLEAR Plant	
	CP-SD-06-1.5-3.0	L70544-06	CLEAR Plant	
	CP-SD-05-0-1.5	L70544-07	CLEAR Plant	
	CP-SD-05-1.5-3.0	L70544-08	CLEAR Plant	
	CP-SD-03-0-1.5	L70544-09	CLEAR Plant	
	CP-SD-03-1.5-3.0	L70544-10	CLEAR Plant	
L70584	CP-P07-0-1	L70584-01	CLEAR Plant	
	CP-P07-1-3	L70584-02	CLEAR Plant	
	CP-P07-5-7	L70584-03	CLEAR Plant	
	CP-SD-04-0-1.5	L70584-04	CLEAR Plant	
	CP-SD-04-1.5-3.0	L70584-05	CLEAR Plant	
L70791	CP-Q09-0-1	L70791-01	CLEAR Plant	
	CP-Q09-1-3	L70791-02	CLEAR Plant	
	CP-SD-07-0-1.5	L70791-03	CLEAR Plant	
	CP-SD-07-1.5-3.0	L70791-04	CLEAR Plant	
	CP-P12-0-1	L70791-05	CLEAR Plant	
	CP-P12-1-3	L70791-06	CLEAR Plant	
	CP-SD-08-0-1.5	L70791-07	CLEAR Plant	
	CP-SD-08-1.5-3.0	L70791-08	CLEAR Plant	
	CP-SD-10-0-1.5	L70791-09	CLEAR Plant	
	CP-SD-10-1.5-3.0	L70791-10	CLEAR Plant	
	CP-SD-09-0-1.5	L70791-11	CLEAR Plant	
	CP-SD-09-1.5-3.0	L70791-12	CLEAR Plant	
	OD-SD-01-0-1.5	L70791-13	Old D Pond	
	OD-SD-01-1.5-3.0	L70791-14	Old D Pond	
	OD-SD-02-0-1.5	L70791-15	Old D Pond	
	OD-SD-02-1.5-3.0	L70791-16	Old D Pond	
	OD-SD-04-0-1.5	L70791-17	Old D Pond	Level IV Validation Report In Appendix D
	OD-SD-04-1.5-3.0	L70791-18	Old D Pond	
	OD-SD-03-0-1.5	L70791-19	Old D Pond	
	OD-SD-03-1.5-3.0	L70791-20	Old D Pond	
L70819	OD-SD-05-0-1.5	L70819-01	Old D Pond	
	OD-SD-05-1.5-3.0	L70819-02	Old D Pond	
	OD-SD-06-0-1.5	L70819-03	Old D Pond	
	OD-SD-06-1.5-3.0	L70819-04	Old D Pond	
	OD-JS-01-0-1	L70819-05	Old D Pond	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	OD-JS-01-1-3	L70819-06	Old D Pond	
	OD-JS-02-0-1	L70819-07	Old D Pond	
	OD-JS-02-1-3	L70819-08	Old D Pond	
	OD-JS-02-5-7	L70819-09	Old D Pond	
	EM-C22-0-1	L70819-10	Esperanza Mill	
	EM-C22-1-3	L70819-11	Esperanza Mill	
	EM-C22-5-7	L70819-12	Esperanza Mill	
	EM-E24-0-1	L70819-13	Esperanza Mill	
	EM-E24-1-3	L70819-14	Esperanza Mill	
	EM-E24-5-7	L70819-15	Esperanza Mill	
L70909	EM-H22-0-1	L70909-01	Esperanza Mill	
	EM-H22-1-3	L70909-02	Esperanza Mill	
	EM-H22-5-7	L70909-03	Esperanza Mill	
	EM-K24-0-1	L70909-04	Esperanza Mill	
	EM-K24-1-3	L70909-05	Esperanza Mill	
	EM-K24-5-7	L70909-06	Esperanza Mill	
L70948	EM-JS-01-0-1	L70948-01	Esperanza Mill	
	EM-JS-01-1-3	L70948-02	Esperanza Mill	
	EM-JS-02-0-1	L70948-03	Esperanza Mill	
	EM-JS-02-1-3	L70948-04	Esperanza Mill	
	EM-M26-0-1	L70948-05	Esperanza Mill	
	EM-M26-1-3	L70948-06	Esperanza Mill	
	EM-M26-5-7	L70948-07	Esperanza Mill	
	C-JS-01-0-1	L70948-08	C Pond	
	C-JS-01-1-3	L70948-09	C Pond	
	C-JS-02-0-1	L70948-10	C Pond	
	C-JS-02-1-3	L70948-11	C Pond	
	C-JS-02-5-7	L70948-12	C Pond	
L70949	C-JS-03-0-1	L70949-01	C Pond	
	C-JS-03-1-3	L70949-02	C Pond	
	C-JS-03-5-7	L70949-03	C Pond	
	C-JS-03-10-12	L70949-04	C Pond	
	C-JS-03-15-17	L70949-05	C Pond	
	CS-JS-01-0-1	L70949-06	C Pond Spoils	
	CS-JS-01-1-3	L70949-07	C Pond Spoils	
	CS-JS-01-5-7	L70949-08	C Pond Spoils	
	CS-JS-01-10-12	L70949-09	C Pond Spoils	
	CS-JS-02-0-1	L70949-10	C Pond Spoils	
	CS-JS-02-1-3	L70949-11	C Pond Spoils	
	CS-JS-02-5-7	L70949-12	C Pond Spoils	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	CS-JS-02-10-11	L70949-13	C Pond Spoils	
L71009	C-JS-03-0-1	L71009-01	C Pond	
	C-JS-03-1-3	L71009-02	C Pond	
	C-JS-03-5-7	L71009-03	C Pond	
	C-JS-03-10-12	L71009-04	C Pond	
	C-JS-04-0-1	L71009-05	C Pond	
	C-JS-04-1-3	L71009-06	C Pond	
	C-JS-04-5-7	L71009-07	C Pond	
	C-JS-04-10-12	L71009-08	C Pond	
	C-JS-04-15-16	L71009-09	C Pond	
	C-JS-05-0-1	L71009-10	C Pond	
	C-JS-05-1-3	L71009-11	C Pond	
L71011	CS-JS-04-0-1	L71011-01	C Pond Spoils	
	CS-JS-04-1-3	L71011-02	C Pond Spoils	
	CS-JS-04-5-7	L71011-03	C Pond Spoils	
	EM-X26-0-1	L71011-04	Esperanza Mill	
	EM-X26-1-3	L71011-05	Esperanza Mill	
	EM-X26-5-7	L71011-06	Esperanza Mill	
	EM-U25-0-1	L71011-07	Esperanza Mill	
	EM-U25-1-3	L71011-08	Esperanza Mill	
	EM-U25-5-5.5	L71011-09	Esperanza Mill	
	EM-N29-0-1	L71011-10	Esperanza Mill	
	EM-N29-1-3	L71011-11	Esperanza Mill	
L71041	EM-G27-0-1	L71041-01	Esperanza Mill	
	EM-G27-1-3	L71041-02	Esperanza Mill	
	RA-JS-04-0-1	L71041-03	Raffinate Pond	
	RA-JS-04-1-2.5	L71041-04	Raffinate Pond	
	RA-JS-03-0-1	L71041-05	Raffinate Pond	
	RA-JS-03-1-3	L71041-06	Raffinate Pond	
	RA-JS-05-0-1	L71041-07	Raffinate Pond	
	RA-JS-05-1-3	L71041-08	Raffinate Pond	
	EM-P24-0-1	L71041-09	Esperanza Mill	
	EM-P24-1-3	L71041-10	Esperanza Mill	
	EM-P24-10-11	L71041-11	Raffinate Pond	
	RA-JS-01-0-1	L71041-12	Raffinate Pond	
	RA-JS-01-1-3	L71041-13	Raffinate Pond	
	RA-JS-01-5-7	L71041-14	Raffinate Pond	
	EM-P24-5-7	L71041-15	Esperanza Mill	
L71083	RA-SD-02-0-1.5/D/MS	L71083-01	Raffinate Pond	
	RA-SD-02-1.5-3.0/D/M	L71083-02	Raffinate Pond	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	RA-SD-01-0-1.5/D/MS/	L71083-03	Raffinate Pond	
L71084	RA-SD-01-1.5-3.0/D/M	L71084-01	Raffinate Pond	
	RA-JS-02-0-1/D/MS/MS	L71084-02	Raffinate Pond	
	RA-JS-02-1-3D/MS/MS	L71084-03	Raffinate Pond	
	RA-JS-02-5-7	L71084-04	Raffinate Pond	
	RA-JS-02-5-7D	L71084-05	Raffinate Pond	
L71134	RP-JS-02-0-1	L71134-01	Rhenium Ponds	
	RP-JS-02-1-3	L71134-02	Rhenium Ponds	
	RP-JS-02-1-3D	L71134-03	Rhenium Ponds	
	RP-JS-02-5-7	L71134-04	Rhenium Ponds	
	RP-JS-02-10-12	L71134-05	Rhenium Ponds	
	RP-JS-02-15-17	L71134-06	Rhenium Ponds	
	RP-JS-01-0-1	L71134-07	Rhenium Ponds	
	RP-JS-01-1-3	L71134-08	Rhenium Ponds	
	RP-JS-01-1-3D	L71134-09	Rhenium Ponds	
	RP-JS-01-5-7	L71134-10	Rhenium Ponds	
	RP-JS-01-10-12	L71134-11	Rhenium Ponds	
	RP-JS-01-15-17	L71134-12	Rhenium Ponds	
	EM-JS-08-0-1	L71134-13	Esperanza Mill	
	EM-JS-08-1-3	L71134-14	Esperanza Mill	Level IV Validation Report In Appendix D
	EM-JS-08-1-3D	L71134-15	Esperanza Mill	
	EM-JS-08-5-7	L71134-16	Esperanza Mill	
	EM-JS-08-10-12	L71134-17	Esperanza Mill	
L71174	Equip-1	L71174-01	Equipment Blank	
L71176	EM-JS-06-0-1	L71176-01	Esperanza Mill	
	EM-JS-06-1-3	L71176-02	Esperanza Mill	
	EM-JS-06-5-7	L71176-03	Esperanza Mill	
	EM-JS-06-10-11	L71176-04	Esperanza Mill	
	EM-JS-07-0-1	L71176-05	Esperanza Mill	
	EM-JS-07-1-3	L71176-06	Esperanza Mill	
	EM-JS-07-5-7	L71176-07	Esperanza Mill	
	EM-JS-07-10-12	L71176-08	Esperanza Mill	
	EM-JS-07-15-16	L71176-09	Esperanza Mill	
L71473	CP-JS-04-0-1	L71473-01	Clear Plant	
	CP-JS-04-1-3	L71473-02	Clear Plant	
	CP-JS-04-5-7	L71473-03	Clear Plant	
	CP-JS-04-10-12	L71473-04	Clear Plant	
	CP-JS-04-15-17	L71473-05	Clear Plant	
	CP-JS-04-20	L71473-06	Clear Plant	
	OD-JS-03-0-1	L71473-07	Old D Pond	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	OD-JS-03-1-3	L71473-08	Old D Pond	
	OD-JS-03-1-3D	L71473-09	Old D Pond	
	CS-JS-05-0-1	L71473-10	C Pond Spoils	
	CS-JS-05-1-3	L71473-11	C Pond Spoils	
	CS-JS-05-1-3D	L71473-12	C Pond Spoils	
	CS-JS-06-0-1	L71473-13	C Pond Spoils	
	CS-JS-06-1-3	L71473-14	C Pond Spoils	
L71687	C-JS-05-0-1	L71687-01	C Pond	SPLP Lead
	C-JS-05-1-3	L71687-02	C Pond	SPLP Lead
	EM-JS-07-10-12	L71687-03	Esperanza Mill	Hexavalent Chromium
	EM-JS-07-15-16	L71687-04	Esperanza Mill	Hexavalent Chromium
	EM-JS-08-5-7	L71687-05	Esperanza Mill	SPLP Lead
	EM-JS-08-10-12	L71687-06	Esperanza Mill	SPLP Lead Hexavalent Chromium
L71753	RA-JS-02-1-3	L71753-01	Raffinate Pond	SPLP Lead
	RA-JS-02-5-7	L71753-02	Raffinate Pond	Hexavalent Chromium
	RA-JS-02-5-7D	L71753-03	Raffinate Pond	Hexavalent Chromium
L72198	ET-SB01-0-20	L72198-01	Esperanza Tailing	
	ET-SB01-20-40	L72198-02	Esperanza Tailing	
	ET-SB01-40-60	L72198-03	Esperanza Tailing	
	ET-SB01-60-80	L72198-04	Esperanza Tailing	
	ET-SB01-80-100	L72198-05	Esperanza Tailing	
	ET-SB02-0-20	L72198-06	Esperanza Tailing	
	ET-SB02-20-40	L72198-07	Esperanza Tailing	
	ET-SB02-40-50	L72198-08	Esperanza Tailing	
	ET-SB02-50-60	L72198-09	Esperanza Tailing	
	ET-SB02-60-80	L72198-10	Esperanza Tailing	
	ET-SB02-80-100	L72198-11	Esperanza Tailing	
	ST-SB01-200-220	L72198-12	Esperanza Tailing	
	ST-SB01-220-235.5	L72198-13	Esperanza Tailing	
	ST-SB01-237-255.5	L72198-14	Esperanza Tailing	
L72199	ST-SB01-0-20	L72199-01	Sierrita Tailing	
	ST-SB01-20-40	L72199-02	Sierrita Tailing	
	ST-SB01-40-60	L72199-03	Sierrita Tailing	
	ST-SB01-60-80	L72199-04	Sierrita Tailing	
	ST-SB01-80-100	L72199-05	Sierrita Tailing	
	ST-SB01-100-120	L72199-06	Sierrita Tailing	
	ST-SB01-120-140	L72199-07	Sierrita Tailing	
	ST-SB01-140-160	L72199-08	Sierrita Tailing	
	ST-SB01-160-180	L72199-09	Sierrita Tailing	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	ST-SB01-180-200	L72199-10	Sierrita Tailing	
L72200	Roll-Off Bins 885-91	L72200-01		
L72397	ST-SB03-200-210	L72397-01	Sierrita Tailing	
	ST-SB04-0-20	L72397-02	Sierrita Tailing	
	ST-SB04-20-40	L72397-03	Sierrita Tailing	
	ST-SB04-40-60	L72397-04	Sierrita Tailing	
	ST-SB04-60-80	L72397-05	Sierrita Tailing	
	ST-SB04-80-100	L72397-06	Sierrita Tailing	
	ST-SB04-100-120	L72397-07	Sierrita Tailing	
	ST-SB04-120-140	L72397-08	Sierrita Tailing	
	ST-SB03-0-20	L72397-09	Sierrita Tailing	
	ST-SB03-20-40	L72397-10	Sierrita Tailing	
	ST-SB03-40-60	L72397-11	Sierrita Tailing	
	ST-SB03-60-80	L72397-12	Sierrita Tailing	
	ST-SB03-80-100	L72397-13	Sierrita Tailing	
	ST-SB03-100-120	L72397-14	Sierrita Tailing	
	ST-SB03-120-140	L72397-15	Sierrita Tailing	
	ST-SB03-140-160	L72397-16	Sierrita Tailing	
	ST-SB03-160-180	L72397-17	Sierrita Tailing	
	ST-SB03-180-200	L72397-18	Sierrita Tailing	
L72452	RA-SD-02-0-1.5D	L72452-01	Raffinate Pond	
	RA-SD-02-1.5-3.0D	L72452-02	Raffinate Pond	
	RA-SD-01-0-1.5D	L72452-03	Raffinate Pond	
	RA-SD-01-1.5-3.0D	L72452-04	Raffinate Pond	
	RA-JS-02-0-1D	L72452-05	Raffinate Pond	
	RA-JS-02-1-3D	L72452-06	Raffinate Pond	
L72871	ST-SB06-0-20	L72871-01	Sierrita Tailing	
	ST-SB06-20-40	L72871-02	Sierrita Tailing	
	ST-SB06-40-60	L72871-03	Sierrita Tailing	
	ST-SB06-60-80	L72871-04	Sierrita Tailing	
	ST-SB06-80-100	L72871-05	Sierrita Tailing	
	ST-SB06-100-120	L72871-06	Sierrita Tailing	
	ST-SB06-120-140	L72871-07	Sierrita Tailing	
	ST-SB06-140-160	L72871-08	Sierrita Tailing	
	ST-SB06-160-180	L72871-09	Sierrita Tailing	
	ST-SB06-180-200	L72871-10	Sierrita Tailing	
	ST-SB06-200-220	L72871-11	Sierrita Tailing	
	ST-SB06-220-240	L72871-12	Sierrita Tailing	
	ST-SB06-240-260	L72871-13	Sierrita Tailing	
	ST-SB06-260-280	L72871-14	Sierrita Tailing	

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ACZ Project No.	Sample No.	ACZ Lab ID	Site Location	Additional Analysis
	ST-SB06-280-300	L72871-15	Sierrita Tailing	Level IV Validation Report In Appendix D
	ST-SB06-300-320	L72871-16	Sierrita Tailing	
	ST-SB06-200-320D	L72871-17	Sierrita Tailing	
	ST-SB06-260-280MSD	L72871-18	Sierrita Tailing	
L73011	EM-JS-02-1-3	L73011-01	Esperanza Mill	SPLP Lead
	CS-JS-01-0-1	L73011-02	C Pond Spoils	Hexavalent Chromium
	CS-JS-02-10-11	L73011-03	C Pond Spoils	SPLP Lead
	EM-JS-08-5-7	L73011-04	Esperanza Mill	Hexavalent Chromium
L73087	ST-SB03-160-180Dup	L73087-01	Sierrita Tailing	
	ST-SB04-100-120DUP	L73087-02	Sierrita Tailing	
	ET-SB02-60-80 DUP	L73087-03	Esperanza Tailing	

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70511

Sampling Event: July 14<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 08/11/08

Peer Reviewer: Geoff Webb

Date Completed: 08/12/08

This report summarizes the verification of analytical data for 10 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-JS-03-01	SA	L70511-01	S	X
CP-JS-03-1-3	SA	L70511-02	S	X
CP-JS-03-5-7	SA	L70511-03	S	X
E-JS-02-0-1	SA	L70511-04	S	X
E-JS-02-1-3	SA	L70511-05	S	X
E-JS-01-0-1	SA	L70511-06	S	X
E-JS-01-1-3	SA	L70511-07	S	X
E-JS-01-5-7	SA	L70511-08	S	X
EV-JS-01-0-1	SA	L70511-09	S	X
EV-JS-01-1-3	SA	L70511-10	S	X

Matrix: S = Soil

QC Type: SA = Sample

FD = Field Duplicate

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 3.3°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD CP-JS-03-01 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc) CP-JS-03-1-3 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>LD CP-JS-03-5-7 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample CP-JS-03-01 could not be evaluated for copper and manganese because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	No	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits, with the exception of an internal standard for the LCS/LCSD analyses for selenium and arsenic. Data qualification based on internal standard recovery failures for QC samples is not considered necessary. Therefore, further action was not necessary.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	
Elevated RLs with non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Selenium (Work Group: WG248917)	MB	0.06 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was

			reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Selenium (Work Group: WG249115)	MB	0.116 mg/Kg	As the blank contamination was reported at a concentration >2.2x the analyte MDL, the associated selenium results were flagged with B4.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

B4 = Target analyte detected in the blank at or above the method acceptance criteria.

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
CP-JS-03-1-3	Antimony	37.6/ 36.4 (75-125)	As the potential bias was considered to be low, the antimony result for sample CP-JS-03-1-3 was flagged with a M2.
CP-JS-03-01	Barium	111/ 150.6 (75-125)	As the potential bias was considered to be high, the barium and molybdenum result for sample CP-JS-03-01 was flagged with a M1.
	Molybdenum	107.9/ 131.1 (75-125)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: CP-JS-03-0-1

ACZ Sample ID: **L70511-01**  
 Date Sampled: 07/14/08 09:00  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 17:27	msh
Arsenic, total (3050)	M6020 ICP-MS	3.3			mg/Kg	0.3	0.5	07/29/08 17:27	msh
Barium, total (3050)	M6010B ICP	164		*	mg/Kg	0.3	2	07/23/08 23:24	aeH <b>MI</b>
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	07/23/08 23:24	aeH
Cadmium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.5	2	07/23/08 23:24	aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/23/08 23:24	aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/23/08 23:24	aeH
Copper, total (3050)	M6010B ICP	1700		*	mg/Kg	1	5	07/23/08 23:24	aeH
Lead, total (3050)	M6020 ICP-MS	24.50		*	mg/Kg	0.05	0.3	07/29/08 17:27	msh
Manganese, total (3050)	M6010B ICP	456		*	mg/Kg	0.5	3	07/23/08 23:24	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:07	jws
Molybdenum, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	07/23/08 23:24	aeH <b>MI</b>
Nickel, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	07/23/08 23:24	aeH
Selenium, total (3050)	M6020 ICP-MS	0.67 <b>B4</b>		*	mg/Kg	0.05	0.3	07/31/08 8:08	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	07/29/08 17:27	msh
Uranium, total (3050)	M6020 ICP-MS	4.29		*	mg/Kg	0.05	0.3	07/29/08 17:27	msh
Zinc, total (3050)	M6010B ICP	158			mg/Kg	1	5	07/23/08 23:24	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.9		*	%	0.1	0.5	07/16/08 17:32	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 16:30	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/19/08 4:04	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:00	brd/lwt

Arizona license number: **AZ0102**

ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-03-1-3

ACZ Sample ID: **L70511-02**  
 Date Sampled: 07/14/08 09:00  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 17:40	msh
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	0.5	07/29/08 17:40	msh
Barium, total (3050)	M6010B ICP	189		*	mg/Kg	0.3	2	07/23/08 23:39	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	07/23/08 23:39	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/23/08 23:39	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	07/23/08 23:39	aeh
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	07/23/08 23:39	aeh
Copper, total (3050)	M6010B ICP	888		*	mg/Kg	1	5	07/23/08 23:39	aeh
Lead, total (3050)	M6020 ICP-MS	13.00			mg/Kg	0.05	0.3	07/29/08 17:40	msh
Manganese, total (3050)	M6010B ICP	456		*	mg/Kg	0.5	3	07/23/08 23:39	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:14	jws
Molybdenum, total (3050)	M6010B ICP	20		*	mg/Kg	1	5	07/23/08 23:39	aeh
Nickel, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	07/23/08 23:39	aeh
Selenium, total (3050)	M6020 ICP-MS	0.31	B4	*	mg/Kg	0.05	0.3	07/31/08 8:22	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	07/29/08 17:40	msh
Uranium, total (3050)	M6020 ICP-MS	3.96		*	mg/Kg	0.05	0.3	07/29/08 17:40	msh
Zinc, total (3050)	M6010B ICP	129			mg/Kg	1	5	07/23/08 23:39	aeh

M2

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.4		*	%	0.1	0.5	07/16/08 18:35	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 16:36	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/19/08 19:08	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:03	brd/lwt

Arizona license number: AZ0102

ER 8/11/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: CP-JS-03-5-7

ACZ Sample ID: **L70511-03**  
 Date Sampled: 07/14/08 09:07  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 18:00	msh
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	0.5	07/29/08 18:00	msh
Barium, total (3050)	M6010B ICP	205		*	mg/Kg	0.3	2	07/23/08 23:42	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/23/08 23:42	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/23/08 23:42	aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/23/08 23:42	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/23/08 23:42	aeh
Copper, total (3050)	M6010B ICP	1680		*	mg/Kg	1	5	07/23/08 23:42	aeh
Lead, total (3050)	M6020 ICP-MS	5.98			mg/Kg	0.05	0.3	07/29/08 18:00	msh
Manganese, total (3050)	M6010B ICP	496		*	mg/Kg	0.5	3	07/23/08 23:42	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:17	jws
Molybdenum, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	07/23/08 23:42	aeh
Nickel, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	07/23/08 23:42	aeh
Selenium, total (3050)	M6020 ICP-MS	0.44			mg/Kg	0.05	0.3	07/29/08 18:00	msh
Thallium, total (3050)	M6020 ICP-MS	0.49		*	mg/Kg	0.05	0.3	07/29/08 18:00	msh
Uranium, total (3050)	M6020 ICP-MS	5.27		*	mg/Kg	0.05	0.3	07/29/08 18:00	msh
Zinc, total (3050)	M6010B ICP	78			mg/Kg	1	5	07/23/08 23:42	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	07/16/08 19:38	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 16:43	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/20/08 10:12	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:07	brd/lwt

Arizona license number: AZ0102

EE 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: E-JS-02-0-1

ACZ Sample ID: **L70511-04**  
 Date Sampled: 07/14/08 10:33  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/29/08 18:20	msh
Arsenic, total (3050)	M6020 ICP-MS	3.0			mg/Kg	0.3	0.5	07/29/08 18:20	msh
Barium, total (3050)	M6010B ICP	183		*	mg/Kg	0.3	2	07/23/08 23:46	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	07/23/08 23:46	aeh
Cadmium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.5	2	07/23/08 23:46	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/23/08 23:46	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/23/08 23:46	aeh
Copper, total (3050)	M6010B ICP	1160		*	mg/Kg	1	5	07/23/08 23:46	aeh
Lead, total (3050)	M6020 ICP-MS	83.50			mg/Kg	0.05	0.3	07/29/08 18:20	msh
Manganese, total (3050)	M6010B ICP	408		*	mg/Kg	0.5	3	07/23/08 23:46	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:19	jws
Molybdenum, total (3050)	M6010B ICP	138		*	mg/Kg	1	5	07/23/08 23:46	aeh
Nickel, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	07/23/08 23:46	aeh
Selenium, total (3050)	M6020 ICP-MS	0.57			mg/Kg	0.05	0.3	07/29/08 18:20	msh
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	07/29/08 18:20	msh
Uranium, total (3050)	M6020 ICP-MS	3.62		*	mg/Kg	0.05	0.3	07/29/08 18:20	msh
Zinc, total (3050)	M6010B ICP	98			mg/Kg	1	5	07/23/08 23:46	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.3		*	%	0.1	0.5	07/16/08 21:44	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 16:50	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/20/08 15:14	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:11	brd/lwt

Arizona license number: AZ0102

EQ 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: E-JS-02-1-3

ACZ Sample ID: **L70511-05**  
 Date Sampled: 07/14/08 10:33  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 18:27	msh
Arsenic, total (3050)	M6020 ICP-MS	4.0			mg/Kg	0.3	0.5	07/29/08 18:27	msh
Barium, total (3050)	M6010B ICP	75.1		*	mg/Kg	0.3	2	07/23/08 23:56	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	07/23/08 23:56	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/23/08 23:56	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/23/08 23:56	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/23/08 23:56	aeh
Copper, total (3050)	M6010B ICP	1290		*	mg/Kg	1	5	07/23/08 23:56	aeh
Lead, total (3050)	M6020 ICP-MS	10.20			mg/Kg	0.05	0.3	07/29/08 18:27	msh
Manganese, total (3050)	M6010B ICP	719		*	mg/Kg	0.5	3	07/23/08 23:56	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:22	jws
Molybdenum, total (3050)	M6010B ICP	98		*	mg/Kg	1	5	07/23/08 23:56	aeh
Nickel, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	07/23/08 23:56	aeh
Selenium, total (3050)	M6020 ICP-MS	0.67			mg/Kg	0.05	0.3	07/29/08 18:27	msh
Thallium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	07/29/08 18:27	msh
Uranium, total (3050)	M6020 ICP-MS	9.68		*	mg/Kg	0.05	0.3	07/29/08 18:27	msh
Zinc, total (3050)	M6010B ICP	87			mg/Kg	1	5	07/23/08 23:56	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.6		*	%	0.1	0.5	07/16/08 22:46	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 16:57	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/20/08 20:15	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:15	brd/lwt

Arizona license number: AZ0102

ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: E-JS-01-0-1

ACZ Sample ID: **L70511-06**  
 Date Sampled: 07/14/08 10:58  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/29/08 18:34	msh
Arsenic, total (3050)	M6020 ICP-MS	2.9			mg/Kg	0.3	0.5	07/29/08 18:34	msh
Barium, total (3050)	M6010B ICP	146		*	mg/Kg	0.3	2	07/24/08 0:00	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/24/08 0:00	aeh
Cadmium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.5	2	07/24/08 0:00	aeh
Chromium, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	07/24/08 0:00	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/24/08 0:00	aeh
Copper, total (3050)	M6010B ICP	2650		*	mg/Kg	1	5	07/24/08 0:00	aeh
Lead, total (3050)	M6020 ICP-MS	22.90			mg/Kg	0.05	0.3	07/29/08 18:34	msh
Manganese, total (3050)	M6010B ICP	369		*	mg/Kg	0.5	3	07/24/08 0:00	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:29	jws
Molybdenum, total (3050)	M6010B ICP	104		*	mg/Kg	1	5	07/24/08 0:00	aeh
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/24/08 0:00	aeh
Selenium, total (3050)	M6020 ICP-MS	0.78			mg/Kg	0.05	0.3	07/29/08 18:34	msh
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	07/29/08 18:34	msh
Uranium, total (3050)	M6020 ICP-MS	3.11		*	mg/Kg	0.05	0.3	07/29/08 18:34	msh
Zinc, total (3050)	M6010B ICP	197			mg/Kg	1	5	07/24/08 0:00	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	07/16/08 23:49	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:03	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/21/08 1:17	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:18	brd/lwt

Arizona license number: AZ0102

ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: E-JS-01-1-3

ACZ Sample ID: **L70511-07**  
 Date Sampled: 07/14/08 10:58  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	07/29/08 18:40	msh
Arsenic, total (3050)	M6020 ICP-MS	2.5			mg/Kg	0.3	0.5	07/29/08 18:40	msh
Barium, total (3050)	M6010B ICP	122		*	mg/Kg	0.3	2	07/24/08 0:03	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/24/08 0:03	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/24/08 0:03	aeh
Chromium, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	07/24/08 0:03	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/24/08 0:03	aeh
Copper, total (3050)	M6010B ICP	1810		*	mg/Kg	1	5	07/24/08 0:03	aeh
Lead, total (3050)	M6020 ICP-MS	19.10			mg/Kg	0.05	0.3	07/29/08 18:40	msh
Manganese, total (3050)	M6010B ICP	327		*	mg/Kg	0.5	3	07/24/08 0:03	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:32	jws
Molybdenum, total (3050)	M6010B ICP	79		*	mg/Kg	1	5	07/24/08 0:03	aeh
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/24/08 0:03	aeh
Selenium, total (3050)	M6020 ICP-MS	0.59			mg/Kg	0.05	0.3	07/29/08 18:40	msh
Thallium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	07/29/08 18:40	msh
Uranium, total (3050)	M6020 ICP-MS	3.04		*	mg/Kg	0.05	0.3	07/29/08 18:40	msh
Zinc, total (3050)	M6010B ICP	165			mg/Kg	1	5	07/24/08 0:03	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.8		*	%	0.1	0.5	07/17/08 0:52	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:10	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/21/08 6:18	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:22	brd/lwt

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ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: E-JS-01-5-7

ACZ Sample ID: **L70511-08**  
 Date Sampled: 07/14/08 11:11  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 18:47	msh
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	0.5	07/29/08 18:47	msh
Barium, total (3050)	M6010B ICP	203		*	mg/Kg	0.3	2	07/24/08 0:07	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	07/24/08 0:07	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/24/08 0:07	aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	07/24/08 0:07	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	07/24/08 0:07	aeh
Copper, total (3050)	M6010B ICP	1510		*	mg/Kg	1	5	07/24/08 0:07	aeh
Lead, total (3050)	M6020 ICP-MS	6.62			mg/Kg	0.05	0.3	07/29/08 18:47	msh
Manganese, total (3050)	M6010B ICP	182		*	mg/Kg	0.5	3	07/24/08 0:07	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:34	jws
Molybdenum, total (3050)	M6010B ICP	246		*	mg/Kg	1	5	07/24/08 0:07	aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	07/24/08 0:07	aeh
Selenium, total (3050)	M6020 ICP-MS	0.42			mg/Kg	0.05	0.3	07/29/08 18:47	msh
Thallium, total (3050)	M6020 ICP-MS	0.12	B	*	mg/Kg	0.05	0.3	07/29/08 18:47	msh
Uranium, total (3050)	M6020 ICP-MS	2.90		*	mg/Kg	0.05	0.3	07/29/08 18:47	msh
Zinc, total (3050)	M6010B ICP	134			mg/Kg	1	5	07/24/08 0:07	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.8		*	%	0.1	0.5	07/17/08 1:55	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:17	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/21/08 11:20	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:26	brd/lwt

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ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EV-JS-01-0-1

ACZ Sample ID: **L70511-09**  
 Date Sampled: 07/14/08 13:52  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.1		*	mg/Kg	0.2	1	07/29/08 18:54	msh
Arsenic, total (3050)	M6020 ICP-MS	9.9			mg/Kg	0.3	0.5	07/29/08 18:54	msh
Barium, total (3050)	M6010B ICP	122		*	mg/Kg	0.3	2	07/24/08 0:10	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	07/24/08 0:10	aeh
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	07/24/08 0:10	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/24/08 0:10	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/24/08 0:10	aeh
Copper, total (3050)	M6010B ICP	3380		*	mg/Kg	1	5	07/24/08 0:10	aeh
Lead, total (3050)	M6020 ICP-MS	196			mg/Kg	0.05	0.3	07/29/08 18:54	msh
Manganese, total (3050)	M6010B ICP	208		*	mg/Kg	0.5	3	07/24/08 0:10	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:36	jws
Molybdenum, total (3050)	M6010B ICP	547		*	mg/Kg	1	5	07/24/08 0:10	aeh
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/24/08 0:10	aeh
Selenium, total (3050)	M6020 ICP-MS	3.43			mg/Kg	0.05	0.3	07/29/08 18:54	msh
Thallium, total (3050)	M6020 ICP-MS	0.40		*	mg/Kg	0.05	0.3	07/29/08 18:54	msh
Uranium, total (3050)	M6020 ICP-MS	4.26		*	mg/Kg	0.05	0.3	07/29/08 18:54	msh
Zinc, total (3050)	M6010B ICP	100			mg/Kg	1	5	07/24/08 0:10	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.2		*	%	0.1	0.5	07/17/08 2:58	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:24	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/21/08 16:21	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:30	brd/lwt

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ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
Sample ID: EV-JS-01-1-3

ACZ Sample ID: **L70511-10**  
Date Sampled: 07/14/08 13:52  
Date Received: 07/16/08  
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	07/29/08 19:00	msh
Arsenic, total (3050)	M6020 ICP-MS	5.7			mg/Kg	0.3	0.5	07/29/08 19:00	msh
Barium, total (3050)	M6010B ICP	213		*	mg/Kg	0.3	2	07/24/08 0:14	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/24/08 0:14	aeh
Cadmium, total (3050)	M6010B ICP	1.6	B		mg/Kg	0.5	2	07/24/08 0:14	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	07/24/08 0:14	aeh
Cobalt, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	07/24/08 0:14	aeh
Copper, total (3050)	M6010B ICP	5440		*	mg/Kg	1	5	07/24/08 0:14	aeh
Lead, total (3050)	M6020 ICP-MS	73.80			mg/Kg	0.05	0.3	07/29/08 19:00	msh
Manganese, total (3050)	M6010B ICP	402		*	mg/Kg	0.5	3	07/24/08 0:14	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:38	jws
Molybdenum, total (3050)	M6010B ICP	258		*	mg/Kg	1	5	07/24/08 0:14	aeh
Nickel, total (3050)	M6010B ICP	18		*	mg/Kg	1	5	07/24/08 0:14	aeh
Selenium, total (3050)	M6020 ICP-MS	1.85			mg/Kg	0.05	0.3	07/29/08 19:00	msh
Thallium, total (3050)	M6020 ICP-MS	0.44		*	mg/Kg	0.05	0.3	07/29/08 19:00	msh
Uranium, total (3050)	M6020 ICP-MS	7.05		*	mg/Kg	0.05	0.3	07/29/08 19:00	msh
Zinc, total (3050)	M6010B ICP	224			mg/Kg	1	5	07/24/08 0:14	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.7		*	%	0.1	0.5	07/17/08 4:00	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:30	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							07/21/08 21:22	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:33	brd/lwt

Arizona license number: AZ0102

ER 8/11/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70512

Sampling Event: July 11<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/02/08

Peer Reviewer: Geoff Webb

Date Completed: 09/02/08

This report summarizes the verification of analytical data for 18 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-N08-1-3	SA	L70512-01	S	X
CP-N08-5-7	SA	L70512-02	S	X
CP-N08-10-11	SA	L70512-03	S	X
CP-O09-0-1	SA	L70512-04	S	X
CP-O09-1-3	SA	L70512-05	S	X
CP-O09-5-7	SA	L70512-06	S	X
CP-O09-10-12	SA	L70512-07	S	X
CP-O09-15-17	SA	L70512-08	S	X
CP-M04-0-1	SA	L70512-09	S	X
CP-M04-1-2.5	SA	L70512-10	S	X
CP-M04-5-5.4	SA	L70512-11	S	X
CP-003-0-1	SA	L70512-12	S	X
CP-003-1-3	SA	L70512-13	S	X
CP-M06-0-1	SA	L70512-14	S	X
CP-M06-1-3	SA	L70512-15	S	X
CP-JS-02-0-1	SA	L70512-16	S	X
CP-JS-02-1-3	SA	L70512-17	S	X
CP-N08-0-1	SA	L70512-18	S	X

Matrix: S = Soil

QC Type: SA = Sample

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperatures were 3.6°C and 2.9°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not required.  The results are reported on a dry weight basis, but the RLs and MDLs are not corrected for percent solids.
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD CP-N08-0-1 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>CP-N08-1-3 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>CP-M04-1-2.5 (Mercury)</li> <li>• LD CP-N08-1-3 (Percent Solids)</li> </ul>	No	With the exceptions noted in Table 1 and Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.  The MS/MSD recoveries for sample CP-N08-1-3 could not be evaluated for copper and manganese because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.  The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.
Method QC <ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	N/A	
<ul style="list-style-type: none"> <li>• Internal Standards</li> </ul>	Yes	<b>Internal Standards</b>  All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A <ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A <ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
CP-N08-0-1	Antimony	<b>52.6/ 57.8</b> (75-125)	As the potential bias was considered to be low, the listed analytical results were flagged with a M2.
CP-N08-1-3	Beryllium	88.9/ <b>67.3</b> (75-125)	
	Cadmium	86.3/ <b>74.3</b> (75-125)	
	Chromium	85/ <b>60.4</b> (75-125)	
	Cobalt	81.6/ <b>56.8</b> (75-125)	
	Molybdenum	<b>61.8/ -51.5</b> (75-125)	
	Nickel	83.2/ <b>59.4</b> (75-125)	
	Zinc	<b>36.4/ -43.8</b> (75-125)	
CP-N08-1-3	Barium	88.4/ <b>150.2</b> (75-125)	As the potential bias was considered to be high, the barium result for sample CP-JS-03-01 was flagged with a M1.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

**Table 2: MS/MSD RPD Outliers and Resultant Data Qualification**

Sample	Analyte	RPD (Limit)	Qualification
CP-N08-1-3	Beryllium	27.36 (20)	The listed analytical results for sample CP-N08-1-3 were flagged with a R8.
	Chromium	28.38 (20)	
	Cobalt	26.62 (20)	
	Molybdenum	37.73 (20)	
	Nickel	26.73 (20)	
	Zinc	25.45 (20)	

RPD – Relative Percent Difference

R8 – Sample RPD exceeded the method acceptance criteria.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-N08-1-3

ACZ Sample ID: **L70512-01**  
 Date Sampled: 07/11/08 13:55  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/15/08 20:53	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	7.5			mg/Kg	0.3	0.5	08/15/08 0:50	erf/msh
Barium, total (3050)	M6010B ICP	188		*	mg/Kg	0.3	2	08/04/08 14:53	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 21:05	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:05	nek/erf
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 21:05	nek/erf
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/02/08 21:05	nek/erf
Copper, total (3050)	M6010B ICP	2420		*	mg/Kg	1	5	07/30/08 14:54	aeH
Lead, total (3050)	M6020 ICP-MS	16.30		*	mg/Kg	0.05	0.3	08/15/08 0:50	erf/msh
Manganese, total (3050)	M6010B ICP	294		*	mg/Kg	0.5	3	07/30/08 14:54	aeH
Mercury, total	M7471A CVAA	0.04	B		mg/Kg	0.04	0.2	07/21/08 20:40	jws
Molybdenum, total (3050)	M6010B ICP	149		*	mg/Kg	1	5	08/02/08 21:05	nek/erf
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:05	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.85		*	mg/Kg	0.05	0.3	08/15/08 0:50	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.53		*	mg/Kg	0.05	0.3	08/15/08 0:50	erf/msh
Uranium, total (3050)	M6020 ICP-MS	8.99		*	mg/Kg	0.05	0.3	08/15/08 0:50	erf/msh
Zinc, total (3050)	M6010B ICP	161		*	mg/Kg	1	5	08/02/08 21:05	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.4		*	%	0.1	0.5	07/16/08 18:03	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:37	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 19:26	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:37	brd/lwt

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-N08-5-7

ACZ Sample ID: **L70512-02**  
 Date Sampled: 07/11/08 14:00  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/15/08 21:00	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	7.7			mg/Kg	0.3	0.5	08/15/08 0:56	erf/msh
Barium, total (3050)	M6010B ICP	186		*	mg/Kg	0.3	2	08/04/08 15:14	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 21:27	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:27	nek/erf
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 21:27	nek/erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 21:27	nek/erf
Copper, total (3050)	M6010B ICP	1100		*	mg/Kg	1	5	07/30/08 15:16	aeH
Lead, total (3050)	M6020 ICP-MS	9.56		*	mg/Kg	0.05	0.3	08/15/08 0:56	erf/msh
Manganese, total (3050)	M6010B ICP	365		*	mg/Kg	0.5	3	07/30/08 15:16	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:43	jws
Molybdenum, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	08/02/08 21:27	nek/erf
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:27	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.54		*	mg/Kg	0.05	0.3	08/15/08 0:56	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.41		*	mg/Kg	0.05	0.3	08/15/08 0:56	erf/msh
Uranium, total (3050)	M6020 ICP-MS	9.35		*	mg/Kg	0.05	0.3	08/15/08 0:56	erf/msh
Zinc, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	08/02/08 21:27	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.5		*	%	0.1	0.5	07/16/08 19:41	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:44	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 20:35	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:41	brd/lwt

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-N08-10-11

ACZ Sample ID: **L70512-03**  
 Date Sampled: 07/11/08 14:05  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.9		*	mg/Kg	0.2	1	08/15/08 21:07	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	41.9		*	mg/Kg	0.3	0.5	08/15/08 1:03	erf/msh
Barium, total (3050)	M6010B ICP	213		*	mg/Kg	0.3	2	08/04/08 15:17	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B	*	mg/Kg	0.2	1	08/02/08 21:31	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:31	nek/erf
Chromium, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/02/08 21:31	nek/erf
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:31	nek/erf
Copper, total (3050)	M6010B ICP	1190		*	mg/Kg	1	5	07/30/08 15:20	aeH
Lead, total (3050)	M6020 ICP-MS	9.66		*	mg/Kg	0.05	0.3	08/15/08 1:03	erf/msh
Manganese, total (3050)	M6010B ICP	271		*	mg/Kg	0.5	3	07/30/08 15:20	aeH
Mercury, total	M7471A CVAA	0.10	B		mg/Kg	0.04	0.2	07/21/08 20:45	jws
Molybdenum, total (3050)	M6010B ICP	106		*	mg/Kg	1	5	08/02/08 21:31	nek/erf
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:31	nek/erf
Selenium, total (3050)	M6020 ICP-MS	1.58		*	mg/Kg	0.05	0.3	08/15/08 1:03	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.34		*	mg/Kg	0.05	0.3	08/15/08 1:03	erf/msh
Uranium, total (3050)	M6020 ICP-MS	9.05		*	mg/Kg	0.05	0.3	08/15/08 1:03	erf/msh
Zinc, total (3050)	M6010B ICP	73		*	mg/Kg	1	5	08/02/08 21:31	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.3		*	%	0.1	0.5	07/16/08 20:30	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:51	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS			*				08/12/08 21:44	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:45	brd/lwt

Arizona license number: AZ0102

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-O09-0-1

ACZ Sample ID: **L70512-04**  
 Date Sampled: 07/11/08 14:52  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 21:14	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.5			mg/Kg	0.3	0.5	08/15/08 1:10	erf/msh
Barium, total (3050)	M6010B ICP	142		*	mg/Kg	0.3	2	08/04/08 15:21	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 21:34	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:34	nek/erf
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/02/08 21:34	nek/erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 21:34	nek/erf
Copper, total (3050)	M6010B ICP	913		*	mg/Kg	1	5	07/30/08 15:23	aeH
Lead, total (3050)	M6020 ICP-MS	11.20		*	mg/Kg	0.05	0.3	08/15/08 1:10	erf/msh
Manganese, total (3050)	M6010B ICP	469		*	mg/Kg	0.5	3	07/30/08 15:23	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:47	jws
Molybdenum, total (3050)	M6010B ICP	69		*	mg/Kg	1	5	08/02/08 21:34	nek/erf
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/02/08 21:34	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	08/15/08 1:10	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	08/15/08 1:10	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.91		*	mg/Kg	0.05	0.3	08/15/08 1:10	erf/msh
Zinc, total (3050)	M6010B ICP	106		*	mg/Kg	1	5	08/02/08 21:34	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.5		*	%	0.1	0.5	07/16/08 21:19	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 17:57	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 22:53	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:48	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-O09-1-3

ACZ Sample ID: **L70512-05**  
 Date Sampled: 07/11/08 14:52  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 21:21	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	08/15/08 1:17	erf/msh
Barium, total (3050)	M6010B ICP	187		*	mg/Kg	0.3	2	08/04/08 15:24	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 21:38	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:38	nek/erf
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 21:38	nek/erf
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/02/08 21:38	nek/erf
Copper, total (3050)	M6010B ICP	1500		*	mg/Kg	1	5	07/30/08 15:27	aeH
Lead, total (3050)	M6020 ICP-MS	26.70		*	mg/Kg	0.05	0.3	08/15/08 1:17	erf/msh
Manganese, total (3050)	M6010B ICP	442		*	mg/Kg	0.5	3	07/30/08 15:27	aeH
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	07/21/08 20:50	jws
Molybdenum, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	08/02/08 21:38	nek/erf
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/02/08 21:38	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.45		*	mg/Kg	0.05	0.3	08/15/08 1:17	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/15/08 1:17	erf/msh
Uranium, total (3050)	M6020 ICP-MS	5.66		*	mg/Kg	0.05	0.3	08/15/08 1:17	erf/msh
Zinc, total (3050)	M6010B ICP	146		*	mg/Kg	1	5	08/02/08 21:38	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	07/16/08 22:08	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:04	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 0:02	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:52	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-O09-5-7

ACZ Sample ID: **L70512-06**  
 Date Sampled: 07/11/08 14:58  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 21:27	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.6			mg/Kg	0.3	0.5	08/15/08 1:44	erf/msh
Barium, total (3050)	M6010B ICP	158		*	mg/Kg	0.3	2	08/04/08 15:27	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 21:42	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:42	nek/erf
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/02/08 21:42	nek/erf
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:42	nek/erf
Copper, total (3050)	M6010B ICP	2480		*	mg/Kg	1	5	07/30/08 15:30	aeh
Lead, total (3050)	M6020 ICP-MS	18.60		*	mg/Kg	0.05	0.3	08/15/08 1:44	erf/msh
Manganese, total (3050)	M6010B ICP	317		*	mg/Kg	0.5	3	07/30/08 15:30	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:57	jws
Molybdenum, total (3050)	M6010B ICP	36		*	mg/Kg	1	5	08/02/08 21:42	nek/erf
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:42	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	08/15/08 1:44	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	08/15/08 1:44	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.40		*	mg/Kg	0.05	0.3	08/15/08 1:44	erf/msh
Zinc, total (3050)	M6010B ICP	78		*	mg/Kg	1	5	08/02/08 21:42	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.5		*	%	0.1	0.5	07/16/08 22:57	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:11	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 1:10	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 10:56	brd/lwt

Arizona license number: AZ0102

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-O09-10-12

ACZ Sample ID: **L70512-07**  
 Date Sampled: 07/11/08 15:02  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/15/08 21:48	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.7			mg/Kg	0.3	0.5	08/15/08 1:51	erf/msh
Barium, total (3050)	M6010B ICP	155		*	mg/Kg	0.3	2	08/04/08 15:31	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 21:46	nek/erf
Cadmium, total (3050)	M6010B ICP	1.1	B	*	mg/Kg	0.5	2	08/02/08 21:46	nek/erf
Chromium, total (3050)	M6010B ICP	25		*	mg/Kg	1	5	08/02/08 21:46	nek/erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 21:46	nek/erf
Copper, total (3050)	M6010B ICP	1670		*	mg/Kg	1	5	07/30/08 15:34	aeH
Lead, total (3050)	M6020 ICP-MS	46.10		*	mg/Kg	0.05	0.3	08/15/08 1:51	erf/msh
Manganese, total (3050)	M6010B ICP	343		*	mg/Kg	0.5	3	07/30/08 15:34	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/21/08 20:59	jws
Molybdenum, total (3050)	M6010B ICP	73		*	mg/Kg	1	5	08/02/08 21:46	nek/erf
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 21:46	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.84		*	mg/Kg	0.05	0.3	08/15/08 1:51	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	08/15/08 1:51	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.45		*	mg/Kg	0.05	0.3	08/15/08 1:51	erf/msh
Zinc, total (3050)	M6010B ICP	123		*	mg/Kg	1	5	08/02/08 21:46	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	07/16/08 23:46	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:18	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 2:19	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:00	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-O09-15-17

ACZ Sample ID: **L70512-08**  
 Date Sampled: 07/11/08 15:10  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 22:02	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	08/15/08 1:58	erf/msh
Barium, total (3050)	M6010B ICP	155			mg/Kg	0.3	2	08/04/08 15:34	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B	*	mg/Kg	0.2	1	08/02/08 21:49	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 21:49	nek/erf
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 21:49	nek/erf
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/02/08 21:49	nek/erf
Copper, total (3050)	M6010B ICP	666		*	mg/Kg	1	5	07/30/08 15:38	aeh
Lead, total (3050)	M6020 ICP-MS	6.56		*	mg/Kg	0.05	0.3	08/15/08 1:58	erf/msh
Manganese, total (3050)	M6010B ICP	326		*	mg/Kg	0.5	3	07/30/08 15:38	aeh
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	07/21/08 21:01	jws
Molybdenum, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	08/02/08 21:49	nek/erf
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:49	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.23	B		mg/Kg	0.05	0.3	08/22/08 15:13	msh
Thallium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	08/15/08 1:58	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.62		*	mg/Kg	0.05	0.3	08/15/08 1:58	erf/msh
Zinc, total (3050)	M6010B ICP	147		*	mg/Kg	1	5	08/02/08 21:49	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	07/17/08 0:35	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:25	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 3:28	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:03	brd/lwt

Arizona license number: AZ0102

ER 9/2/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: CP-M04-0-1

ACZ Sample ID: **L70512-09**  
 Date Sampled: 07/11/08 09:55  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.3		*	mg/Kg	0.2	1	08/15/08 22:09	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	12.6		*	mg/Kg	0.3	0.5	08/15/08 2:05	erf/msh
Barium, total (3050)	M6010B ICP	130		*	mg/Kg	0.3	2	08/04/08 15:38	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 21:53	nek/erf
Cadmium, total (3050)	M6010B ICP	0.7	B	*	mg/Kg	0.5	2	08/02/08 21:53	nek/erf
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:53	nek/erf
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/02/08 21:53	nek/erf
Copper, total (3050)	M6010B ICP	9390		*	mg/Kg	1	5	07/30/08 15:41	aeH
Lead, total (3050)	M6020 ICP-MS	48.10		*	mg/Kg	0.05	0.3	08/15/08 2:05	erf/msh
Manganese, total (3050)	M6010B ICP	333		*	mg/Kg	0.5	3	07/30/08 15:41	aeH
Mercury, total	M7471A CVAA	0.15	B		mg/Kg	0.04	0.2	07/21/08 21:03	jws
Molybdenum, total (3050)	M6010B ICP	704		*	mg/Kg	1	5	08/02/08 21:53	nek/erf
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 21:53	nek/erf
Selenium, total (3050)	M6020 ICP-MS	3.09		*	mg/Kg	0.05	0.3	08/15/08 2:05	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.24	B	*	mg/Kg	0.05	0.3	08/15/08 2:05	erf/msh
Uranium, total (3050)	M6020 ICP-MS	5.55		*	mg/Kg	0.05	0.3	08/15/08 2:05	erf/msh
Zinc, total (3050)	M6010B ICP	272		*	mg/Kg	1	5	08/02/08 21:53	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.6		*	%	0.1	0.5	07/17/08 1:24	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:31	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS			*				08/13/08 4:37	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:07	brd/lwt

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-M04-1-2.5

ACZ Sample ID: **L70512-10**  
 Date Sampled: 07/11/08 09:57  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.1		*	mg/Kg	0.2	1	08/15/08 22:16	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	7.5			mg/Kg	0.3	0.5	08/15/08 2:11	erf/msh
Barium, total (3050)	M6010B ICP	142		*	mg/Kg	0.3	2	08/04/08 15:41	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 21:57	nek/erf
Cadmium, total (3050)	M6010B ICP	0.6	B	*	mg/Kg	0.5	2	08/02/08 21:57	nek/erf
Chromium, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	08/02/08 21:57	nek/erf
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	.5	08/02/08 21:57	nek/erf
Copper, total (3050)	M6010B ICP	3900		*	mg/Kg	1	5	07/30/08 15:45	aeh
Lead, total (3050)	M6020 ICP-MS	48.10		*	mg/Kg	0.05	0.3	08/15/08 2:11	erf/msh
Manganese, total (3050)	M6010B ICP	319		*	mg/Kg	0.5	3	07/30/08 15:45	aeh
Mercury, total	M7471A CVAA	0.16	B		mg/Kg	0.04	0.2	07/22/08 20:18	pmc
Molybdenum, total (3050)	M6010B ICP	206		*	mg/Kg	1	5	08/02/08 21:57	nek/erf
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 21:57	nek/erf
Selenium, total (3050)	M6020 ICP-MS	1.29		*	mg/Kg	0.05	0.3	08/15/08 2:11	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.12	B	*	mg/Kg	0.05	0.3	08/15/08 2:11	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.01		*	mg/Kg	0.05	0.3	08/15/08 2:11	erf/msh
Zinc, total (3050)	M6010B ICP	212		*	mg/Kg	1	5	08/02/08 21:57	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.9		*	%	0.1	0.5	07/17/08 2:13	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:38	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 5:46	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:11	brd/lwt

Arizona license number: AZ0102

ER 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-M04-5-5.4

ACZ Sample ID: L70512-11  
 Date Sampled: 07/11/08 10:15  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 22:23	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.5			mg/Kg	0.3	0.5	08/15/08 2:18	erf/msh
Barium, total (3050)	M6010B ICP	197		*	mg/Kg	0.3	2	08/04/08 15:45	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 22:00	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:00	nek/erf
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/02/08 22:00	nek/erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 22:00	nek/erf
Copper, total (3050)	M6010B ICP	1720		*	mg/Kg	1	5	07/30/08 15:49	aeH
Lead, total (3050)	M6020 ICP-MS	6.55		*	mg/Kg	0.05	0.3	08/15/08 2:18	erf/msh
Manganese, total (3050)	M6010B ICP	374		*	mg/Kg	0.5	3	07/30/08 15:49	aeH
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	07/22/08 20:24	pmc
Molybdenum, total (3050)	M6010B ICP	48		*	mg/Kg	1	5	08/02/08 22:00	nek/erf
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 22:00	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.87		*	mg/Kg	0.05	0.3	08/15/08 2:18	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.41		*	mg/Kg	0.05	0.3	08/15/08 2:18	erf/msh
Uranium, total (3050)	M6020 ICP-MS	9.05		*	mg/Kg	0.05	0.3	08/15/08 2:18	erf/msh
Zinc, total (3050)	M6010B ICP	45		*	mg/Kg	1	5	08/02/08 22:00	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	07/17/08 3:02	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:45	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 6:55	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:15	brd/lwt

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-003-0-1

ACZ Sample ID: **L70512-12**  
 Date Sampled: 07/11/08 10:52  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 22:29	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.3			mg/Kg	0.3	0.5	08/15/08 2:25	erf/msh
Barium, total (3050)	M6010B ICP	251		*	mg/Kg	0.3	2	08/04/08 15:55	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 22:11	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:11	nek/erf
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/02/08 22:11	nek/erf
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/02/08 22:11	nek/erf
Copper, total (3050)	M6010B ICP	1700		*	mg/Kg	1	5	07/30/08 15:59	aeh
Lead, total (3050)	M6020 ICP-MS	5.35		*	mg/Kg	0.05	0.3	08/15/08 2:25	erf/msh
Manganese, total (3050)	M6010B ICP	386		*	mg/Kg	0.5	3	07/30/08 15:59	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:26	pmc
Molybdenum, total (3050)	M6010B ICP	102		*	mg/Kg	1	5	08/02/08 22:11	nek/erf
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 22:11	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.45		*	mg/Kg	0.05	0.3	08/15/08 2:25	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.40		*	mg/Kg	0.05	0.3	08/15/08 2:25	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.91		*	mg/Kg	0.05	0.3	08/15/08 2:25	erf/msh
Zinc, total (3050)	M6010B ICP	119		*	mg/Kg	1	5	08/02/08 22:11	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.0		*	%	0.1	0.5	07/17/08 3:51	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:52	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 8:04	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:18	brd/lwt

Arizona license number: AZ0102

*Er 9/2/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-003-1-3

ACZ Sample ID: **L70512-13**  
 Date Sampled: 07/11/08 10:52  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 22:36	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.2			mg/Kg	0.3	0.5	08/15/08 2:32	erf/msh
Barium, total (3050)	M6010B ICP	212		*	mg/Kg	0.3	2	08/04/08 15:59	aeH
Beryllium, total (3050)	M6010B ICP		U	*	mg/Kg	0.2	1	08/02/08 22:15	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:15	nek/erf
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/02/08 22:15	nek/erf
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/02/08 22:15	nek/erf
Copper, total (3050)	M6010B ICP	298		*	mg/Kg	1	5	07/30/08 16:03	aeH
Lead, total (3050)	M6020 ICP-MS	1.72		*	mg/Kg	0.05	0.3	08/15/08 2:32	erf/msh
Manganese, total (3050)	M6010B ICP	440		*	mg/Kg	0.5	3	07/30/08 16:03	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.03	0.2	07/22/08 20:29	pmc
Molybdenum, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/02/08 22:15	nek/erf
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 22:15	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.81		*	mg/Kg	0.05	0.3	08/15/08 2:32	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	08/15/08 2:32	erf/msh
Uranium, total (3050)	M6020 ICP-MS	7.25		*	mg/Kg	0.05	0.3	08/15/08 2:32	erf/msh
Zinc, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	08/02/08 22:15	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	99.2		*	%	0.1	0.5	07/17/08 4:40	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 18:58	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 9:13	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:22	brd/lwt

Arizona license number: AZ0102

*EE 9/2/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-M06-0-1

ACZ Sample ID: **L70512-14**  
 Date Sampled: 07/11/08 12:56  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 22:43	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.6			mg/Kg	0.3	0.5	08/15/08 2:39	erf/msh
Barium, total (3050)	M6010B ICP	67.1		*	mg/Kg	0.3	2	08/04/08 16:02	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	08/02/08 22:18	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:18	nek/erf
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/02/08 22:18	nek/erf
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/02/08 22:18	nek/erf
Copper, total (3050)	M6010B ICP	207		*	mg/Kg	1	5	07/30/08 16:07	aeH
Lead, total (3050)	M6020 ICP-MS	7.76		*	mg/Kg	0.05	0.3	08/15/08 2:39	erf/msh
Manganese, total (3050)	M6010B ICP	159		*	mg/Kg	0.5	3	07/30/08 16:07	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:31	pmc
Molybdenum, total (3050)	M6010B ICP	23		*	mg/Kg	1	5	08/02/08 22:18	nek/erf
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/02/08 22:18	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.23	B		mg/Kg	0.05	0.3	08/22/08 15:20	msh
Thallium, total (3050)	M6020 ICP-MS	0.11	B	*	mg/Kg	0.05	0.3	08/15/08 2:39	erf/msh
Uranium, total (3050)	M6020 ICP-MS	1.45		*	mg/Kg	0.05	0.3	08/15/08 2:39	erf/msh
Zinc, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	08/02/08 22:18	nek/erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.1		*	%	0.1	0.5	07/17/08 5:29	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:05	brd/bj
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 10:21	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:26	brd/lwt

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-M06-1-3

ACZ Sample ID: **L70512-15**  
 Date Sampled: 07/11/08 12:56  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 22:50	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.0			mg/Kg	0.3	0.5	08/15/08 2:46	erf/msh
Barium, total (3050)	M6010B ICP	92.4		*	mg/Kg	0.3	2	08/04/08 16:05	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B	*	mg/Kg	0.2	1	08/02/08 22:22	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:22	nek/erf
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 22:22	nek/erf
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/02/08 22:22	nek/erf
Copper, total (3050)	M6010B ICP	200		*	mg/Kg	1	5	07/30/08 16:10	aeH
Lead, total (3050)	M6020 ICP-MS	8.17		*	mg/Kg	0.05	0.3	08/15/08 2:46	erf/msh
Manganese, total (3050)	M6010B ICP	157		*	mg/Kg	0.5	3	07/30/08 16:10	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:38	pmc
Molybdenum, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/02/08 22:22	nek/erf
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/02/08 22:22	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/15/08 2:46	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	08/15/08 2:46	erf/msh
Uranium, total (3050)	M6020 ICP-MS	1.35		*	mg/Kg	0.05	0.3	08/15/08 2:46	erf/msh
Zinc, total (3050)	M6010B ICP	27		*	mg/Kg	1	5	08/02/08 22:22	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.3		*	%	0.1	0.5	07/17/08 6:18	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:12	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 11:30	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:30	brd/lwt

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ER 9/2/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-JS-02-0-1

ACZ Sample ID: **L70512-16**  
Date Sampled: 07/11/08 13:20  
Date Received: 07/16/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.0		*	mg/Kg	0.2	1	08/15/08 23:11	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	6.3			mg/Kg	0.3	0.5	08/15/08 3:06	erf/msh
Barium, total (3050)	M6010B ICP	36.8		*	mg/Kg	0.3	2	08/04/08 16:09	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B	*	mg/Kg	0.2	1	08/02/08 22:26	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:26	nek/erf
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/02/08 22:26	nek/erf
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/02/08 22:26	nek/erf
Copper, total (3050)	M6010B ICP	2690		*	mg/Kg	1	5	07/30/08 16:14	aeh
Lead, total (3050)	M6020 ICP-MS	39.70		*	mg/Kg	0.05	0.3	08/15/08 3:06	erf/msh
Manganese, total (3050)	M6010B ICP	345		*	mg/Kg	0.5	3	07/30/08 16:14	aeh
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.04	0.2	07/22/08 20:40	pmc
Molybdenum, total (3050)	M6010B ICP	618		*	mg/Kg	1	5	08/02/08 22:26	nek/erf
Nickel, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/02/08 22:26	nek/erf
Selenium, total (3050)	M6020 ICP-MS	3.15		*	mg/Kg	0.05	0.3	08/15/08 3:06	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	08/15/08 23:11	erf/msh
Uranium, total (3050)	M6020 ICP-MS	6.34		*	mg/Kg	0.05	0.3	08/15/08 3:06	erf/msh
Zinc, total (3050)	M6010B ICP	114		*	mg/Kg	1	5	08/02/08 22:26	nek/erf

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.4		*	%	0.1	0.5	07/17/08 7:07	mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:19	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 12:39	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:33	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-02-1-3

ACZ Sample ID: L70512-17  
 Date Sampled: 07/11/08 13:20  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 23:18	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.8			mg/Kg	0.3	0.5	08/15/08 3:13	erf/msh
Barium, total (3050)	M6010B ICP	77.4		*	mg/Kg	0.3	2	08/04/08 16:12	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B	*	mg/Kg	0.2	1	08/02/08 22:29	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:29	nek/erf
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/02/08 22:29	nek/erf
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/02/08 22:29	nek/erf
Copper, total (3050)	M6010B ICP	174		*	mg/Kg	1	5	07/30/08 16:17	aeh
Lead, total (3050)	M6020 ICP-MS	7.39		*	mg/Kg	0.05	0.3	08/15/08 3:13	erf/msh
Manganese, total (3050)	M6010B ICP	122		*	mg/Kg	0.5	3	07/30/08 16:17	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:42	pmc
Molybdenum, total (3050)	M6010B ICP	27		*	mg/Kg	1	5	08/02/08 22:29	nek/erf
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/02/08 22:29	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.17	B		mg/Kg	0.05	0.3	08/22/08 15:24	msh
Thallium, total (3050)	M6020 ICP-MS		U		mg/Kg	0.05	0.3	08/15/08 23:18	erf/msh
Uranium, total (3050)	M6020 ICP-MS	0.93		*	mg/Kg	0.05	0.3	08/15/08 3:13	erf/msh
Zinc, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	08/02/08 22:29	nek/erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	07/17/08 7:56	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:25	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 13:48	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:37	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-N08-0-1

ACZ Sample ID: **L70512-18**  
 Date Sampled: 07/11/08 13:55  
 Date Received: 07/16/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 23:25	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	4.1			mg/Kg	0.3	0.5	08/15/08 3:20	erf/msh
Barium, total (3050)	M6010B ICP	169		*	mg/Kg	0.3	2	08/04/08 16:16	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	08/02/08 22:33	nek/erf
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	08/02/08 22:33	nek/erf
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/02/08 22:33	nek/erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/02/08 22:33	nek/erf
Copper, total (3050)	M6010B ICP	1070		*	mg/Kg	1	5	07/30/08 16:21	aeH
Lead, total (3050)	M6020 ICP-MS	10.10		*	mg/Kg	0.05	0.3	08/15/08 3:20	erf/msh
Manganese, total (3050)	M6010B ICP	504		*	mg/Kg	0.5	3	07/30/08 16:21	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:45	pmc
Molybdenum, total (3050)	M6010B ICP	27		*	mg/Kg	1	5	08/02/08 22:33	nek/erf
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/02/08 22:33	nek/erf
Selenium, total (3050)	M6020 ICP-MS	0.42		*	mg/Kg	0.05	0.3	08/15/08 3:20	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/15/08 3:20	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.77		*	mg/Kg	0.05	0.3	08/15/08 3:20	erf/msh
Zinc, total (3050)	M6010B ICP	94		*	mg/Kg	1	5	08/02/08 22:33	nek/erf

MZ

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.5		*	%	0.1	0.5	07/17/08 8:45	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:32	brd/bjl
Digestion - Hot Plate	M3050B ICP-MS							08/13/08 14:57	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:41	brd/lwt

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## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70514      Sampling Event: July 14<sup>th</sup>, 2008  
 Sample-specific Parameter Review? **Yes**      Laboratory Performance Parameters? **No**  
 Data Reviewer: Liz Kraak      Date Completed: 08/11/08  
 Peer Reviewer: Geoff Webb      Date Completed: 08/12/08

This report summarizes the verification of analytical data for 4 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EV-JS-01-5-7	SA	L70514-01	S	X
EV-JS-02-0-1	SA	L70514-02	S	X
EV-JS-02-1-3	SA	L70514-03	S	X
EV-JS-02-5-7	SA	L70514-04	S	X

Matrix: S = Soil      QC Type: SA = Sample      FD = Field Duplicate

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.  
 Data are usable with qualification (noted below).  
 Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 2.6°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.

Review Parameter	Criteria Met?	Comments
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exception noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC • MS/MSD N/A • LD N/A	N/A	Since a sample from this work order was not the sample selected for quality control (QC), QC results were not included in this report.
Method QC • Serial Dilution N/A • Internal Standards	N/A	
	No	<b>Internal Standards</b> All internal standards were within the laboratory-determined acceptance limits, with the exception of an internal standard for the arsenic and selenium LCS/LCSD analyses. Data qualification based on internal standard recovery failures for QC samples is not considered necessary. Further action was not necessary.
Field QC • Rinsate Blank N/A • Field Duplicate N/A • Field Blank N/A	N/A	
Elevated RLs with non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Selenium	MB	0.06 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: EV-JS-01-5-7

ACZ Sample ID: **L70514-01**  
 Date Sampled: 07/14/08 13:55  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 19:07	msh
Arsenic, total (3050)	M6020 ICP-MS	5.5			mg/Kg	0.3	0.5	07/29/08 19:07	msh
Barium, total (3050)	M6010B ICP	169		*	mg/Kg	0.3	2	07/24/08 0:17	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	07/24/08 0:17	aeH
Cadmium, total (3050)	M6010B ICP	6.0			mg/Kg	0.5	2	07/24/08 0:17	aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/24/08 0:17	aeH
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	07/24/08 0:17	aeH
Copper, total (3050)	M6010B ICP	1550		*	mg/Kg	1	5	07/24/08 0:17	aeH
Lead, total (3050)	M6020 ICP-MS	12.00			mg/Kg	0.05	0.3	07/29/08 19:07	msh
Manganese, total (3050)	M6010B ICP	342		*	mg/Kg	0.5	3	07/24/08 0:17	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:47	pmc
Molybdenum, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	07/24/08 0:17	aeH
Nickel, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	07/24/08 0:17	aeH
Selenium, total (3050)	M6020 ICP-MS	1.69			mg/Kg	0.05	0.3	07/29/08 19:07	msh
Thallium, total (3050)	M6020 ICP-MS	0.10	B	*	mg/Kg	0.05	0.3	07/29/08 19:07	msh
Uranium, total (3050)	M6020 ICP-MS	8.51		*	mg/Kg	0.05	0.3	07/29/08 19:07	msh
Zinc, total (3050)	M6010B ICP	407			mg/Kg	1	5	07/24/08 0:17	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.6		*	%	0.1	0.5	07/17/08 5:03	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:39	brd/bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:45	brd/lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EV-JS-02-0-1

ACZ Sample ID: **L70514-02**  
 Date Sampled: 07/14/08 14:45  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	07/29/08 19:14	msh
Arsenic, total (3050)	M6020 ICP-MS	2.8			mg/Kg	0.3	0.5	07/29/08 19:14	msh
Barium, total (3050)	M6010B ICP	105		*	mg/Kg	0.3	2	07/24/08 0:21	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	07/24/08 0:21	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/24/08 0:21	aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	07/24/08 0:21	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	07/24/08 0:21	aeh
Copper, total (3050)	M6010B ICP	2020		*	mg/Kg	1	5	07/24/08 0:21	aeh
Lead, total (3050)	M6020 ICP-MS	19.10			mg/Kg	0.05	0.3	07/29/08 19:14	msh
Manganese, total (3050)	M6010B ICP	330		*	mg/Kg	0.5	3	07/24/08 0:21	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:50	pmc
Molybdenum, total (3050)	M6010B ICP	67		*	mg/Kg	1	5	07/24/08 0:21	aeh
Nickel, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	07/24/08 0:21	aeh
Selenium, total (3050)	M6020 ICP-MS	0.47			mg/Kg	0.05	0.3	07/29/08 19:14	msh
Thallium, total (3050)	M6020 ICP-MS	0.10	B	*	mg/Kg	0.05	0.3	07/29/08 19:14	msh
Uranium, total (3050)	M6020 ICP-MS	2.87		*	mg/Kg	0.05	0.3	07/29/08 19:14	msh
Zinc, total (3050)	M6010B ICP	124			mg/Kg	1	5	07/24/08 0:21	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.2		*	%	0.1	0.5	07/17/08 6:06	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:46	brd/bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:48	brd/lwt

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EE 8/11/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: EV-JS-02-1-3

ACZ Sample ID: **L70514-03**  
 Date Sampled: 07/14/08 14:45  
 Date Received: 07/16/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 19:20	msh
Arsenic, total (3050)	M6020 ICP-MS	1.1			mg/Kg	0.3	0.5	07/29/08 19:20	msh
Barium, total (3050)	M6010B ICP	96.2		*	mg/Kg	0.3	2	07/24/08 0:25	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/24/08 0:25	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/24/08 0:25	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/24/08 0:25	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/24/08 0:25	aeh
Copper, total (3050)	M6010B ICP	583		*	mg/Kg	1	5	07/24/08 0:25	aeh
Lead, total (3050)	M6020 ICP-MS	1.59			mg/Kg	0.05	0.3	07/29/08 19:20	msh
Manganese, total (3050)	M6010B ICP	357		*	mg/Kg	0.5	3	07/24/08 0:25	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:52	pmc
Molybdenum, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/24/08 0:25	aeh
Nickel, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	07/24/08 0:25	aeh
Selenium, total (3050)	M6020 ICP-MS	1.02			mg/Kg	0.05	0.3	07/29/08 19:20	msh
Thallium, total (3050)	M6020 ICP-MS	0.12	B	*	mg/Kg	0.05	0.3	07/29/08 19:20	msh
Uranium, total (3050)	M6020 ICP-MS	4.14		*	mg/Kg	0.05	0.3	07/29/08 19:20	msh
Zinc, total (3050)	M6010B ICP	54			mg/Kg	1	5	07/24/08 0:25	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.9		*	%	0.1	0.5	07/17/08 7:09	mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:53	brd/bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:52	brd/lwt

Arizona license number: AZ0102

EQ 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EV-JS-02-5-7

ACZ Sample ID: **L70514-04**  
 Date Sampled: 07/14/08 14:55  
 Date Received: 07/16/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 19:41	msh
Arsenic, total (3050)	M6020 ICP-MS	3.5			mg/Kg	0.3	0.5	07/29/08 19:41	msh
Barium, total (3050)	M6010B ICP	142		*	mg/Kg	0.3	2	07/24/08 0:28	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/24/08 0:28	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/24/08 0:28	aeh
Chromium, total (3050)	M6010B ICP	20			mg/Kg	1	5	07/24/08 0:28	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	07/24/08 0:28	aeh
Copper, total (3050)	M6010B ICP	890		*	mg/Kg	1	5	07/24/08 0:28	aeh
Lead, total (3050)	M6020 ICP-MS	11.30			mg/Kg	0.05	0.3	07/29/08 19:41	msh
Manganese, total (3050)	M6010B ICP	394		*	mg/Kg	0.5	3	07/24/08 0:28	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:54	pmc
Molybdenum, total (3050)	M6010B ICP	37		*	mg/Kg	1	5	07/24/08 0:28	aeh
Nickel, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	07/24/08 0:28	aeh
Selenium, total (3050)	M6020 ICP-MS	0.46			mg/Kg	0.05	0.3	07/29/08 19:41	msh
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	07/29/08 19:41	msh
Uranium, total (3050)	M6020 ICP-MS	5.53		*	mg/Kg	0.05	0.3	07/29/08 19:41	msh
Zinc, total (3050)	M6010B ICP	77			mg/Kg	1	5	07/24/08 0:28	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.4		*	%	0.1	0.5	07/17/08 8:12	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/16/08 19:59	brd/bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/18/08 11:56	brd/lwt

Arizona license number: AZ0102

ER 8/11/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70543

Sampling Event: July 15<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 08/11/08

Peer Reviewer: Geoff Webb

Date Completed: 08/12/08

This report summarizes the verification of analytical data for 8 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-JS-01-0-1	SA	L70543-01	S	X
CP-JS-01-1-3	SA	L70543-02	S	X
CP-JS-01-5-7	SA	L70543-03	S	X
CP-JS-01-10-12	SA	L70543-04	S	X
CP-P04-0-1	SA	L70543-05	S	X
CP-P04-1-3	SA	L70543-06	S	X
CP-P05-0-1	SA	L70543-07	S	X
CP-P05-1-3	SA	L70543-08	S	X

Matrix: S = Soil

QC Type: SA = Sample

FD = Field Duplicate

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.

Review Parameter	Criteria Met?	Comments
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 3.3°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	No target analytes were detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD CP-JS-01-1-3 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>CP-JS-01-0-1 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc)</li> <li>LD CP-JS01-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample CP-JS-01-0-1 could not be evaluated for barium, copper and manganese because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not necessary.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	
Elevated RLs with non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
CP-JS-01-1-3	Antimony	32.4/ 34.9 (75-125)	As the potential bias was considered to be low, the antimony result for sample CP-JS-01-1-3 was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-01-0-1

ACZ Sample ID: **L70543-01**  
 Date Sampled: 07/15/08 09:45  
 Date Received: 07/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	07/31/08 3:16	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	7.3			mg/Kg	0.3	0.5	07/31/08 3:16	erf/msh
Barium, total (3050)	M6010B ICP	654		*	mg/Kg	0.3	2	07/31/08 13:11	nek/aeH
Beryllium, total (3050)	M6010B ICP	1.3			mg/Kg	0.2	1	07/31/08 13:11	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:11	nek/aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/08/08 3:08	aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/31/08 13:11	nek/aeH
Copper, total (3050)	M6010B ICP	1390		*	mg/Kg	1	5	07/31/08 13:11	nek/aeH
Lead, total (3050)	M6020 ICP-MS	5.93			mg/Kg	0.05	0.3	08/06/08 19:21	msh
Manganese, total (3050)	M6010B ICP	297		*	mg/Kg	0.5	3	07/31/08 13:11	nek/aeH
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.05	0.2	07/25/08 20:44	pmc
Molybdenum, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	07/31/08 13:11	nek/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 13:11	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.28	B		mg/Kg	0.05	0.3	08/06/08 19:21	msh
Thallium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	07/31/08 3:16	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.36		*	mg/Kg	0.05	0.3	07/31/08 3:16	erf/msh
Zinc, total (3050)	M6010B ICP	45			mg/Kg	1	5	07/31/08 13:11	nek/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	81.1		*	%	0.1	0.5	07/17/08 18:04	brd/mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:15	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 10:52	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:02	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-01-1-3

ACZ Sample ID: **L70543-02**  
 Date Sampled: 07/15/08 09:45  
 Date Received: 07/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	07/31/08 3:29	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	12.3			mg/Kg	0.3	0.5	07/31/08 3:29	erf/msh
Barium, total (3050)	M6010B ICP	336		*	mg/Kg	0.3	2	07/31/08 13:30	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	07/31/08 13:30	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:30	nek/aeH
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/08/08 3:30	aeH
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	07/31/08 13:30	nek/aeH
Copper, total (3050)	M6010B ICP	781		*	mg/Kg	1	5	07/31/08 13:30	nek/aeH
Lead, total (3050)	M6020 ICP-MS	7.40			mg/Kg	0.05	0.3	08/06/08 19:27	msh
Manganese, total (3050)	M6010B ICP	379		*	mg/Kg	0.5	3	07/31/08 13:30	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 20:52	pmc
Molybdenum, total (3050)	M6010B ICP	53		*	mg/Kg	1	5	07/31/08 13:30	nek/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 13:30	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.69			mg/Kg	0.05	0.3	08/06/08 19:27	msh
Thallium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	07/31/08 3:29	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.29		*	mg/Kg	0.05	0.3	07/31/08 3:29	erf/msh
Zinc, total (3050)	M6010B ICP	39			mg/Kg	1	5	07/31/08 13:30	nek/aeH

MZ

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.9		*	%	0.1	0.5	07/17/08 19:44	brd/mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:16	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 11:45	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:05	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-01-5-7

ACZ Sample ID: **L70543-03**  
 Date Sampled: 07/15/08 09:55  
 Date Received: 07/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	5.9		*	mg/Kg	0.2	1	07/31/08 3:50	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	32.8			mg/Kg	0.3	0.5	07/31/08 3:50	erf/msh
Barium, total (3050)	M6010B ICP	130		*	mg/Kg	0.3	2	07/31/08 13:34	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	07/31/08 13:34	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:34	nek/aeH
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/08/08 3:34	aeH
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	07/31/08 13:34	nek/aeH
Copper, total (3050)	M6010B ICP	822		*	mg/Kg	1	5	07/31/08 13:34	nek/aeH
Lead, total (3050)	M6020 ICP-MS	44.30			mg/Kg	0.05	0.3	08/06/08 19:59	msh
Manganese, total (3050)	M6010B ICP	482		*	mg/Kg	0.5	3	07/31/08 13:34	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 20:54	pmc
Molybdenum, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	07/31/08 13:34	nek/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/31/08 13:34	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.24	B		mg/Kg	0.05	0.3	08/06/08 19:59	msh
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	07/31/08 3:50	erf/msh
Uranium, total (3050)	M6020 ICP-MS	5.11		*	mg/Kg	0.05	0.3	07/31/08 3:50	erf/msh
Zinc, total (3050)	M6010B ICP	42			mg/Kg	1	5	07/31/08 13:34	nek/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.3		*	%	0.1	0.5	07/17/08 20:33	brd/mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:18	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 12:37	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:08	brd

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### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CP-JS-01-10-12

ACZ Sample ID: **L70543-04**  
 Date Sampled: 07/15/08 10:40  
 Date Received: 07/17/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.7	B	*	mg/Kg	0.2	1	07/31/08 4:11	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	28.1			mg/Kg	0.3	0.5	07/31/08 4:11	erf/msh
Barium, total (3050)	M6010B ICP	159		*	mg/Kg	0.3	2	07/31/08 13:37	nek/aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/03/08 0:00	nek/erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	3	8	08/03/08 0:00	nek/erf
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/08/08 3:37	aeh
Cobalt, total (3050)	M6010B ICP	18	B	*	mg/Kg	5	30	08/03/08 0:00	nek/erf
Copper, total (3050)	M6010B ICP	506		*	mg/Kg	5	30	08/03/08 0:00	nek/erf
Lead, total (3050)	M6020 ICP-MS	8.98			mg/Kg	0.05	0.3	08/06/08 20:06	msh.
Manganese, total (3050)	M6010B ICP	1240		*	mg/Kg	3	10	08/03/08 0:00	nek/erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 20:56	pmc
Molybdenum, total (3050)	M6010B ICP	200		*	mg/Kg	5	30	08/03/08 0:00	nek/erf
Nickel, total (3050)	M6010B ICP	14	B		mg/Kg	5	30	08/03/08 0:00	nek/erf
Selenium, total (3050)	M6020 ICP-MS	1.68			mg/Kg	0.05	0.3	08/06/08 20:06	msh
Thallium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	07/31/08 4:11	erf/msh
Uranium, total (3050)	M6020 ICP-MS	7.77		*	mg/Kg	0.05	0.3	07/31/08 4:11	erf/msh
Zinc, total (3050)	M6010B ICP	65		*	mg/Kg	5	30	08/03/08 0:00	nek/erf

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.4		*	%	0.1	0.5	07/17/08 21:23	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:20	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 12:55	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:10	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P04-0-1

ACZ Sample ID: **L70543-05**  
 Date Sampled: 07/15/08 11:10  
 Date Received: 07/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:18	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.6			mg/Kg	0.3	0.5	07/31/08 4:18	erf/msh
Barium, total (3050)	M6010B ICP	206		*	mg/Kg	0.3	2	07/31/08 13:40	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/31/08 13:40	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:40	nek/aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/08/08 3:41	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/31/08 13:40	nek/aeH
Copper, total (3050)	M6010B ICP	626		*	mg/Kg	1	5	07/31/08 13:40	nek/aeH
Lead, total (3050)	M6020 ICP-MS	4.87			mg/Kg	0.05	0.3	08/06/08 20:12	msh
Manganese, total (3050)	M6010B ICP	275		*	mg/Kg	0.5	3	07/31/08 13:40	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 20:59	pmc
Molybdenum, total (3050)	M6010B ICP	33		*	mg/Kg	1	5	07/31/08 13:40	nek/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/31/08 13:40	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.48			mg/Kg	0.05	0.3	08/06/08 20:12	msh
Thallium, total (3050)	M6020 ICP-MS	0.37		*	mg/Kg	0.05	0.3	07/31/08 4:18	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.77		*	mg/Kg	0.05	0.3	07/31/08 4:18	erf/msh
Zinc, total (3050)	M6010B ICP	34			mg/Kg	1	5	07/31/08 13:40	nek/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	07/17/08 22:13	brd/mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:22	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 13:12	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:13	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P04-1-3

ACZ Sample ID: **L70543-06**  
 Date Sampled: 07/15/08 11:21  
 Date Received: 07/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:25	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.0			mg/Kg	0.3	0.5	07/31/08 4:25	erf/msh
Barium, total (3050)	M6010B ICP	154		*	mg/Kg	0.3	2	07/31/08 13:43	nek/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/31/08 13:43	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:43	nek/aeH
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/08/08 3:45	aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/31/08 13:43	nek/aeH
Copper, total (3050)	M6010B ICP	518		*	mg/Kg	1	5	07/31/08 13:43	nek/aeH
Lead, total (3050)	M6020 ICP-MS	1.20			mg/Kg	0.05	0.3	08/06/08 20:18	msh
Manganese, total (3050)	M6010B ICP	295		*	mg/Kg	0.5	3	07/31/08 13:43	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:05	pmc
Molybdenum, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	07/31/08 13:43	nek/aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/31/08 13:43	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.07	B		mg/Kg	0.05	0.3	08/06/08 20:18	msh
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	07/31/08 4:25	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.41		*	mg/Kg	0.05	0.3	07/31/08 4:25	erf/msh
Zinc, total (3050)	M6010B ICP	39			mg/Kg	1	5	07/31/08 13:43	nek/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.4		*	%	0.1	0.5	07/17/08 23:03	brd/mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:23	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 13:30	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:16	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P05-0-1

ACZ Sample ID: **L70543-07**  
 Date Sampled: 07/15/08 13:15  
 Date Received: 07/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:32	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.6			mg/Kg	0.3	0.5	07/31/08 4:32	erf/msh
Barium, total (3050)	M6010B ICP	115		*	mg/Kg	0.3	2	07/31/08 13:47	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/31/08 13:47	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:47	nek/aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/08/08 3:48	aeH
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	07/31/08 13:47	nek/aeH
Copper, total (3050)	M6010B ICP	973		*	mg/Kg	1	5	07/31/08 13:47	nek/aeH
Lead, total (3050)	M6020 ICP-MS	7.41			mg/Kg	0.05	0.3	08/06/08 20:25	msh
Manganese, total (3050)	M6010B ICP	330		*	mg/Kg	0.5	3	07/31/08 13:47	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:08	pmc
Molybdenum, total (3050)	M6010B ICP	72		*	mg/Kg	1	5	07/31/08 13:47	nek/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/31/08 13:47	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.34			mg/Kg	0.05	0.3	08/06/08 20:25	msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	07/31/08 4:32	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.75		*	mg/Kg	0.05	0.3	07/31/08 4:32	erf/msh
Zinc, total (3050)	M6010B ICP	55			mg/Kg	1	5	07/31/08 13:47	nek/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.5		*	%	0.1	0.5	07/17/08 23:52	brd/mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:25	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 13:47	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:19	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P05-1-3

ACZ Sample ID: **L70543-08**  
 Date Sampled: 07/15/08 13:33  
 Date Received: 07/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:39	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.1			mg/Kg	0.3	0.5	07/31/08 4:39	erf/msh
Barium, total (3050)	M6010B ICP	197		*	mg/Kg	0.3	2	07/31/08 13:50	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/31/08 13:50	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:50	nek/aeH
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/08/08 3:52	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/31/08 13:50	nek/aeH
Copper, total (3050)	M6010B ICP	289		*	mg/Kg	1	5	07/31/08 13:50	nek/aeH
Lead, total (3050)	M6020 ICP-MS	2.05			mg/Kg	0.05	0.3	08/06/08 20:31	msh
Manganese, total (3050)	M6010B ICP	307		*	mg/Kg	0.5	3	07/31/08 13:50	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:11	pmc
Molybdenum, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	07/31/08 13:50	nek/aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/31/08 13:50	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.07	B		mg/Kg	0.05	0.3	08/06/08 20:31	msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	07/31/08 4:39	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.16		*	mg/Kg	0.05	0.3	07/31/08 4:39	erf/msh
Zinc, total (3050)	M6010B ICP	29			mg/Kg	1	5	07/31/08 13:50	nek/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.3		*	%	0.1	0.5	07/18/08 0:42	brd/mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:27	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 14:05	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:21	brd

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## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70544

Sampling Event: July 17<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 08/27/08

Peer Reviewer: Geoff Webb

Date Completed: 08/27/08

This report summarizes the verification of analytical data for 10 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-SD-01-0-1.5	SA	L70544-01	S	X
CP-SD-01-1.5-3.0	SA	L70544-02	S	X
CP-SD-02-0-1.5	SA	L70544-03	S	X
CP-SD-02-1.5-3.0	SA	L70544-04	S	X
CP-SD-06-0-1.5	SA	L70544-05	S	X
CP-SD-06-1.5-3.0	SA	L70544-06	S	X
CP-SD-05-0-1.5	SA	L70544-07	S	X
CP-SD-05-1.5-3.0	SA	L70544-08	S	X
CP-SD-03-0-1.5	SA	L70544-09	S	X
CP-SD-03-1.5-3.0	SA	L70544-10	S	X

Matrix: S = Soil

QC Type: SA = Sample

FD = Field Duplicate

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 4.3°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not required.
Holding Times	Yes	
Method Blanks	Yes	Target analytes were not detected in the method blanks.
Matrix QC • MS/MSD N/A • LD N/A	N/A	Since a sample from this work order was not the selected quality control sample, quality control results were not included in this report.
Method QC • Serial Dilution N/A • Internal Standards	N/A	
	Yes	<b>Internal Standards</b> All internal standards were within the laboratory-determined acceptance limits. Qualification of data was not required.
Field QC • Rinsate Blank N/A • Field Duplicate N/A • Field Blank N/A	N/A	
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-01-0-1.5

ACZ Sample ID: **L70544-01**  
 Date Sampled: 07/16/08 08:30  
 Date Received: 07/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:46	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.1			mg/Kg	0.3	0.5	07/31/08 4:46	erf/msh
Barium, total (3050)	M6010B ICP	145		*	mg/Kg	0.3	2	07/31/08 13:53	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/31/08 13:53	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:53	nek/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 3:56	aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/31/08 13:53	nek/aeH
Copper, total (3050)	M6010B ICP	979		*	mg/Kg	1	5	07/31/08 13:53	nek/aeH
Lead, total (3050)	M6020 ICP-MS	5.49			mg/Kg	0.05	0.3	08/06/08 20:38	msh
Manganese, total (3050)	M6010B ICP	342		*	mg/Kg	0.5	3	07/31/08 13:53	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:13	pmc
Molybdenum, total (3050)	M6010B ICP	121		*	mg/Kg	1	5	07/31/08 13:53	nek/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 13:53	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.37			mg/Kg	0.05	0.3	08/06/08 20:38	msh
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	07/31/08 4:46	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.04		*	mg/Kg	0.05	0.3	07/31/08 4:46	erf/msh
Zinc, total (3050)	M6010B ICP	49			mg/Kg	1	5	07/31/08 13:53	nek/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	07/18/08 1:32	brd/mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:29	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 14:22	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:45	bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-01-1.5-3.0

ACZ Sample ID: **L70544-02**  
 Date Sampled: 07/16/08 08:30  
 Date Received: 07/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 4:53	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.0			mg/Kg	0.3	0.5	07/31/08 4:53	erf/msh
Barium, total (3050)	M6010B ICP	140		*	mg/Kg	0.3	2	07/31/08 13:57	nek/aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/31/08 13:57	nek/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 13:57	nek/aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 3:59	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	07/31/08 13:57	nek/aeh
Copper, total (3050)	M6010B ICP	253		*	mg/Kg	1	5	07/31/08 13:57	nek/aeh
Lead, total (3050)	M6020 ICP-MS	1.72			mg/Kg	0.05	0.3	08/06/08 20:44	msh
Manganese, total (3050)	M6010B ICP	314		*	mg/Kg	0.5	3	07/31/08 13:57	nek/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:15	pmc
Molybdenum, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	07/31/08 13:57	nek/aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 13:57	nek/aeh
Selenium, total (3050)	M6020 ICP-MS	0.08	B		mg/Kg	0.05	0.3	08/06/08 20:44	msh
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	07/31/08 4:53	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.34		*	mg/Kg	0.05	0.3	07/31/08 4:53	erf/msh
Zinc, total (3050)	M6010B ICP	30			mg/Kg	1	5	07/31/08 13:57	nek/aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.3		*	%	0.1	0.5	07/18/08 2:22	brd/mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:30	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 14:40	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:46	bjl

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# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-02-0-1.5

ACZ Sample ID: **L70544-03**  
Date Sampled: 07/16/08 09:08  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:00	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.1			mg/Kg	0.3	0.5	07/31/08 5:00	erf/msh
Barium, total (3050)	M6010B ICP	117		*	mg/Kg	0.3	2	07/31/08 14:00	nek/aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/31/08 14:00	nek/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:00	nek/aeh
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/08/08 4:03	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	07/31/08 14:00	nek/aeh
Copper, total (3050)	M6010B ICP	451		*	mg/Kg	1	5	07/31/08 14:00	nek/aeh
Lead, total (3050)	M6020 ICP-MS	4.00			mg/Kg	0.05	0.3	08/06/08 20:50	msh
Manganese, total (3050)	M6010B ICP	207		*	mg/Kg	0.5	3	07/31/08 14:00	nek/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:18	pmc
Molybdenum, total (3050)	M6010B ICP	32		*	mg/Kg	1	5	07/31/08 14:00	nek/aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/31/08 14:00	nek/aeh
Selenium, total (3050)	M6020 ICP-MS	0.31			mg/Kg	0.05	0.3	08/06/08 20:50	msh
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	07/31/08 5:00	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.50		*	mg/Kg	0.05	0.3	07/31/08 5:00	erf/msh
Zinc, total (3050)	M6010B ICP	31			mg/Kg	1	5	07/31/08 14:00	nek/aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.8		*	%	0.1	0.5	07/18/08 3:11	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:32	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 14:57	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:48	bjl

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EL 8/27/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-02-1.5-3.0

ACZ Sample ID: **L70544-04**  
Date Sampled: 07/16/08 09:08  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:07	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.5			mg/Kg	0.3	0.5	07/31/08 5:07	erf/msh
Barium, total (3050)	M6010B ICP	41.1		*	mg/Kg	0.3	2	07/31/08 14:10	nek/aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	07/31/08 14:10	nek/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:10	nek/aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/08/08 4:14	aeh
Cobalt, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	07/31/08 14:10	nek/aeh
Copper, total (3050)	M6010B ICP	780		*	mg/Kg	1	5	07/31/08 14:10	nek/aeh
Lead, total (3050)	M6020 ICP-MS	3.78			mg/Kg	0.05	0.3	08/06/08 20:57	msh
Manganese, total (3050)	M6010B ICP	148		*	mg/Kg	0.5	3	07/31/08 14:10	nek/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:20	pmc
Molybdenum, total (3050)	M6010B ICP	18		*	mg/Kg	1	5	07/31/08 14:10	nek/aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	07/31/08 14:10	nek/aeh
Selenium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	08/06/08 20:57	msh
Thallium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	07/31/08 5:07	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.82		*	mg/Kg	0.05	0.3	07/31/08 5:07	erf/msh
Zinc, total (3050)	M6010B ICP	30			mg/Kg	1	5	07/31/08 14:10	nek/aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.1		*	%	0.1	0.5	07/18/08 4:01	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:34	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 15:15	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:50	bjl

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ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-06-0-1.5

ACZ Sample ID: **L70544-05**  
 Date Sampled: 07/16/08 09:26  
 Date Received: 07/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:14	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.7			mg/Kg	0.3	0.5	07/31/08 5:14	erf/msh
Barium, total (3050)	M6010B ICP	177		*	mg/Kg	0.3	2	07/31/08 14:13	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	07/31/08 14:13	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:13	nek/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 4:17	aeH
Cobalt, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	07/31/08 14:13	nek/aeH
Copper, total (3050)	M6010B ICP	976		*	mg/Kg	1	5	07/31/08 14:13	nek/aeH
Lead, total (3050)	M6020 ICP-MS	4.17			mg/Kg	0.05	0.3	08/06/08 21:16	msh
Manganese, total (3050)	M6010B ICP	447		*	mg/Kg	0.5	3	07/31/08 14:13	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:22	pmc
Molybdenum, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	07/31/08 14:13	nek/aeH
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	07/31/08 14:13	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.46			mg/Kg	0.05	0.3	08/06/08 21:16	msh
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	07/31/08 5:14	erf/msh
Uranium, total (3050)	M6020 ICP-MS	5.54		*	mg/Kg	0.05	0.3	07/31/08 5:14	erf/msh
Zinc, total (3050)	M6010B ICP	86			mg/Kg	1	5	07/31/08 14:13	nek/aeH

**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	07/18/08 4:51	brd/mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:36	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 15:32	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:51	bjl

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-06-1.5-3.0

ACZ Sample ID: **L70544-06**  
Date Sampled: 07/16/08 09:26  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:35	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	4.0			mg/Kg	0.3	0.5	07/31/08 5:35	erf/msh
Barium, total (3050)	M6010B ICP	174		*	mg/Kg	0.3	2	07/31/08 14:16	nek/aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	07/31/08 14:16	nek/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:16	nek/aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 4:21	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/31/08 14:16	nek/aeh
Copper, total (3050)	M6010B ICP	729		*	mg/Kg	1	5	07/31/08 14:16	nek/aeh
Lead, total (3050)	M6020 ICP-MS	3.75			mg/Kg	0.05	0.3	08/06/08 21:22	msh
Manganese, total (3050)	M6010B ICP	375		*	mg/Kg	0.5	3	07/31/08 14:16	nek/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:24	pmc
Molybdenum, total (3050)	M6010B ICP	37		*	mg/Kg	1	5	07/31/08 14:16	nek/aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 14:16	nek/aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/06/08 21:22	msh
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	07/31/08 5:35	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.81		*	mg/Kg	0.05	0.3	07/31/08 5:35	erf/msh
Zinc, total (3050)	M6010B ICP	39			mg/Kg	1	5	07/31/08 14:16	nek/aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.5		*	%	0.1	0.5	07/18/08 5:41	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:37	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 15:50	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:53	bjl

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-05-0-1.5

ACZ Sample ID: **L70544-07**  
Date Sampled: 07/16/08 09:45  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:42	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	5.4			mg/Kg	0.3	0.5	07/31/08 5:42	erf/msh
Barium, total (3050)	M6010B ICP	123		*	mg/Kg	0.3	2	07/31/08 14:20	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	07/31/08 14:20	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:20	nek/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 4:25	aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/31/08 14:20	nek/aeH
Copper, total (3050)	M6010B ICP	561		*	mg/Kg	1	5	07/31/08 14:20	nek/aeH
Lead, total (3050)	M6020 ICP-MS	8.74			mg/Kg	0.05	0.3	08/06/08 21:29	msh
Manganese, total (3050)	M6010B ICP	343		*	mg/Kg	0.5	3	07/31/08 14:20	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:27	pmc
Molybdenum, total (3050)	M6010B ICP	126		*	mg/Kg	1	5	07/31/08 14:20	nek/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/31/08 14:20	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.51			mg/Kg	0.05	0.3	08/06/08 21:29	msh
Thallium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	07/31/08 5:42	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.61		*	mg/Kg	0.05	0.3	07/31/08 5:42	erf/msh
Zinc, total (3050)	M6010B ICP	43			mg/Kg	1	5	07/31/08 14:20	nek/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.3		*	%	0.1	0.5	07/18/08 6:30	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:39	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 16:07	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:55	bjl

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-05-1.5-3.0

ACZ Sample ID: **L70544-08**  
Date Sampled: 07/16/08 09:45  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:49	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.6			mg/Kg	0.3	0.5	07/31/08 5:49	erf/msh
Barium, total (3050)	M6010B ICP	181		*	mg/Kg	0.3	2	07/31/08 14:23	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	07/31/08 14:23	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:23	nek/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/08/08 4:28	aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/31/08 14:23	nek/aeH
Copper, total (3050)	M6010B ICP	283		*	mg/Kg	1	5	07/31/08 14:23	nek/aeH
Lead, total (3050)	M6020 ICP-MS	4.91			mg/Kg	0.05	0.3	08/06/08 21:35	msh
Manganese, total (3050)	M6010B ICP	359		*	mg/Kg	0.5	3	07/31/08 14:23	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:34	pmc
Molybdenum, total (3050)	M6010B ICP	24		*	mg/Kg	1	5	07/31/08 14:23	nek/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	07/31/08 14:23	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.31			mg/Kg	0.05	0.3	08/06/08 21:35	msh
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	07/31/08 5:49	erf/msh
Uranium, total (3050)	M6020 ICP-MS	2.86		*	mg/Kg	0.05	0.3	07/31/08 5:49	erf/msh
Zinc, total (3050)	M6010B ICP	42			mg/Kg	1	5	07/31/08 14:23	nek/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.1		*	%	0.1	0.5	07/18/08 7:20	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:41	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 16:25	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:56	bjl

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# ACZ Laboratories, Inc.

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-SD-03-0-1.5

ACZ Sample ID: **L70544-09**  
Date Sampled: 07/16/08 09:54  
Date Received: 07/17/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 5:56	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.9			mg/Kg	0.3	0.5	07/31/08 5:56	erf/msh
Barium, total (3050)	M6010B ICP	95.3		*	mg/Kg	0.3	2	07/31/08 14:26	nek/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	07/31/08 14:26	nek/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:26	nek/aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/08/08 4:32	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/31/08 14:26	nek/aeH
Copper, total (3050)	M6010B ICP	995		*	mg/Kg	1	5	07/31/08 14:26	nek/aeH
Lead, total (3050)	M6020 ICP-MS	9.49			mg/Kg	0.05	0.3	08/06/08 21:42	msh
Manganese, total (3050)	M6010B ICP	257		*	mg/Kg	0.5	3	07/31/08 14:26	nek/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:36	pmc
Molybdenum, total (3050)	M6010B ICP	114		*	mg/Kg	1	5	07/31/08 14:26	nek/aeH
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	07/31/08 14:26	nek/aeH
Selenium, total (3050)	M6020 ICP-MS	0.36			mg/Kg	0.05	0.3	08/06/08 21:42	msh
Thallium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	07/31/08 5:56	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.05		*	mg/Kg	0.05	0.3	07/31/08 5:56	erf/msh
Zinc, total (3050)	M6010B ICP	48			mg/Kg	1	5	07/31/08 14:26	nek/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.0		*	%	0.1	0.5	07/18/08 8:10	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:43	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 16:42	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 7:58	bjl

Arizona license number: AZ0102

EQ 8/27/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CP-SD-03-1.5-3.0

ACZ Sample ID: **L70544-10**  
 Date Sampled: 07/16/08 09:54  
 Date Received: 07/17/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/31/08 6:03	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.9			mg/Kg	0.3	0.5	07/31/08 6:03	erf/msh
Barium, total (3050)	M6010B ICP	112		*	mg/Kg	0.3	2	07/31/08 14:30	nek/aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	07/31/08 14:30	nek/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/31/08 14:30	nek/aeh
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/08/08 4:36	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/31/08 14:30	nek/aeh
Copper, total (3050)	M6010B ICP	335		*	mg/Kg	1	5	07/31/08 14:30	nek/aeh
Lead, total (3050)	M6020 ICP-MS	5.32			mg/Kg	0.05	0.3	08/06/08 21:48	msh
Manganese, total (3050)	M6010B ICP	302		*	mg/Kg	0.5	3	07/31/08 14:30	nek/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/25/08 21:39	pmc
Molybdenum, total (3050)	M6010B ICP	44		*	mg/Kg	1	5	07/31/08 14:30	nek/aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/31/08 14:30	nek/aeh
Selenium, total (3050)	M6020 ICP-MS	0.20	B		mg/Kg	0.05	0.3	08/06/08 21:48	msh
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	07/31/08 6:03	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.86		*	mg/Kg	0.05	0.3	07/31/08 6:03	erf/msh
Zinc, total (3050)	M6010B ICP	34			mg/Kg	1	5	07/31/08 14:30	nek/aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.5		*	%	0.1	0.5	07/18/08 8:59	brd/mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/17/08 15:45	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/04/08 17:00	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/24/08 8:00	bjl

Arizona license number: AZ0102

ER 8/27/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70584                      Sampling Event: July 17<sup>th</sup>, 2008  
 Sample-specific Parameter Review? **Yes**                      Laboratory Performance Parameters? **No**  
 Data Reviewer: Liz Kraak                      Date Completed: 08/11/08  
 Peer Reviewer: Geoff Webb                      Date Completed: 08/12/08

This report summarizes the verification of analytical data for 5 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-P07-0-1	SA	L70584-01	S	X
CP-P07-1-3	SA	L70584-02	S	X
CP-P07-5-7	SA	L70584-03	S	X
CP-SD-04-0-1.5	SA	L70584-04	S	X
CP-SD-04-1.5-3.0	SA	L70584-05	S	X

Matrix: S = Soil

QC Type: SA = Sample

FD = Field Duplicate

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.  
 Data are usable with qualification (noted below).  
 Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.

Review Parameter	Criteria Met?	Comments
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 3.4°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	No target analytes were detected in the method blanks or continuing calibration blanks. Data qualification was not necessary.
Matrix QC • MS/MSD N/A • LD N/A	N/A	Since a sample from this work order was not the sample selected for quality control (QC), QC results were not included in this report.
Method QC • Serial Dilution N/A • Internal Standards	N/A	
	Yes	<b>Internal Standards</b> All internal standards were within the laboratory-determined acceptance limits. Data qualification was not necessary.
Field QC • Rinsate Blank N/A • Field Duplicate N/A • Field Blank N/A	N/A	
Elevated RLs with non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P07-0-1

ACZ Sample ID: **L70584-01**  
 Date Sampled: 07/17/08 14:04  
 Date Received: 07/18/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 14:45	msh
Arsenic, total (3050)	M6020 ICP-MS	1.5			mg/Kg	0.3	0.5	07/29/08 14:45	msh
Barium, total (3050)	M6010B ICP	99.5		*	mg/Kg	0.3	2	07/29/08 6:37	erf
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/29/08 6:37	erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/29/08 6:37	erf
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	07/29/08 6:37	erf
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/29/08 6:37	erf
Copper, total (3050)	M6010B ICP	538			mg/Kg	1	5	07/29/08 6:37	erf
Lead, total (3050)	M6020 ICP-MS	9.36		*	mg/Kg	0.05	0.3	07/29/08 14:45	msh
Manganese, total (3050)	M6010B ICP	293		*	mg/Kg	0.5	3	07/29/08 6:37	erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 20:58	pmc
Molybdenum, total (3050)	M6010B ICP	26			mg/Kg	1	5	07/29/08 6:37	erf
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/29/08 6:37	erf
Selenium, total (3050)	M6020 ICP-MS	0.36			mg/Kg	0.05	0.3	07/29/08 14:45	msh
Thallium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	07/29/08 14:45	msh
Uranium, total (3050)	M6020 ICP-MS	3.24		*	mg/Kg	0.05	0.3	07/29/08 14:45	msh
Zinc, total (3050)	M6010B ICP	44		*	mg/Kg	1	5	07/29/08 6:37	erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.3		*	%	0.1	0.5	07/23/08 12:06	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/23/08 11:12	bjl
Digestion - Hot Plate	M3050B ICP-MS							07/25/08 8:40	lwt/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:24	brd

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ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P07-1-3

ACZ Sample ID: **L70584-02**  
 Date Sampled: 07/17/08 14:04  
 Date Received: 07/18/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 14:51	msh
Arsenic, total (3050)	M6020 ICP-MS	1.1			mg/Kg	0.3	0.5	07/29/08 14:51	msh
Barium, total (3050)	M6010B ICP	80.4		*	mg/Kg	0.3	2	07/29/08 6:40	erf
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	07/29/08 6:40	erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/29/08 6:40	erf
Chromium, total (3050)	M6010B ICP	5			mg/Kg	1	5	07/29/08 6:40	erf
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	07/29/08 6:40	erf
Copper, total (3050)	M6010B ICP	210			mg/Kg	1	5	07/29/08 6:40	erf
Lead, total (3050)	M6020 ICP-MS	3.38		*	mg/Kg	0.05	0.3	07/29/08 14:51	msh
Manganese, total (3050)	M6010B ICP	276		*	mg/Kg	0.5	3	07/29/08 6:40	erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 21:06	pmc
Molybdenum, total (3050)	M6010B ICP	31			mg/Kg	1	5	07/29/08 6:40	erf
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	07/29/08 6:40	erf
Selenium, total (3050)	M6020 ICP-MS	0.24	B		mg/Kg	0.05	0.3	07/29/08 14:51	msh
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	07/29/08 14:51	msh
Uranium, total (3050)	M6020 ICP-MS	3.79		*	mg/Kg	0.05	0.3	07/29/08 14:51	msh
Zinc, total (3050)	M6010B ICP	39		*	mg/Kg	1	5	07/29/08 6:40	erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.7		*	%	0.1	0.5	07/23/08 13:27	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/23/08 11:18	bjl
Digestion - Hot Plate	M3050B ICP-MS							07/25/08 9:44	lwt/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:27	brd

Arizona license number: AZ0102

ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P07-5-7

ACZ Sample ID: **L70584-03**  
 Date Sampled: 07/17/08 14:11  
 Date Received: 07/18/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 14:58	msh
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	07/29/08 14:58	msh
Barium, total (3050)	M6010B ICP	101		*	mg/Kg	0.3	2	07/29/08 6:44	erf
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	07/29/08 6:44	erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/29/08 6:44	erf
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	07/29/08 6:44	erf
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/29/08 6:44	erf
Copper, total (3050)	M6010B ICP	333			mg/Kg	1	5	07/29/08 6:44	erf
Lead, total (3050)	M6020 ICP-MS	3.79		*	mg/Kg	0.05	0.3	07/29/08 14:58	msh
Manganese, total (3050)	M6010B ICP	283		*	mg/Kg	0.5	3	07/29/08 6:44	erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 21:09	pmc
Molybdenum, total (3050)	M6010B ICP	53			mg/Kg	1	5	07/29/08 6:44	erf
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	07/29/08 6:44	erf
Selenium, total (3050)	M6020 ICP-MS	0.50			mg/Kg	0.05	0.3	07/29/08 14:58	msh
Thallium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	07/29/08 14:58	msh
Uranium, total (3050)	M6020 ICP-MS	4.03		*	mg/Kg	0.05	0.3	07/29/08 14:58	msh
Zinc, total (3050)	M6010B ICP	88		*	mg/Kg	1	5	07/29/08 6:44	erf

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.8		*	%	0.1	0.5	07/23/08 14:48	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/23/08 11:24	bjl
Digestion - Hot Plate	M3050B ICP-MS							07/25/08 10:47	lwt/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:30	brd

Arizona license number: AZ0102

ED 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-04-0-1.5

ACZ Sample ID: **L70584-04**  
 Date Sampled: 07/17/08 14:52  
 Date Received: 07/18/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 15:05	msh
Arsenic, total (3050)	M6020 ICP-MS	1.8			mg/Kg	0.3	0.5	07/29/08 15:05	msh
Barium, total (3050)	M6010B ICP	166		*	mg/Kg	0.3	2	07/29/08 6:48	erf
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	07/29/08 6:48	erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/29/08 6:48	erf
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/29/08 6:48	erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/29/08 6:48	erf
Copper, total (3050)	M6010B ICP	1180			mg/Kg	1	5	07/29/08 6:48	erf
Lead, total (3050)	M6020 ICP-MS	4.25		*	mg/Kg	0.05	0.3	07/29/08 15:05	msh
Manganese, total (3050)	M6010B ICP	403		*	mg/Kg	0.5	3	07/29/08 6:48	erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 21:11	pmc
Molybdenum, total (3050)	M6010B ICP	40			mg/Kg	1	5	07/29/08 6:48	erf
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/29/08 6:48	erf
Selenium, total (3050)	M6020 ICP-MS	0.36			mg/Kg	0.05	0.3	07/29/08 15:05	msh
Thallium, total (3050)	M6020 ICP-MS	0.43		*	mg/Kg	0.05	0.3	07/29/08 15:05	msh
Uranium, total (3050)	M6020 ICP-MS	4.05		*	mg/Kg	0.05	0.3	07/29/08 15:05	msh
Zinc, total (3050)	M6010B ICP	57		*	mg/Kg	1	5	07/29/08 6:48	erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.7		*	%	0.1	0.5	07/23/08 16:09	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/23/08 11:30	bjl
Digestion - Hot Plate	M3050B ICP-MS							07/25/08 11:50	lwt/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:32	brd

Arizona license number: AZ0102

ER 8/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-04-1.5-3.0

ACZ Sample ID: **L70584-05**  
 Date Sampled: 07/17/08 14:52  
 Date Received: 07/18/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	07/29/08 15:11	msh
Arsenic, total (3050)	M6020 ICP-MS	1.0			mg/Kg	0.3	0.5	07/29/08 15:11	msh
Barium, total (3050)	M6010B ICP	170		*	mg/Kg	0.3	2	07/29/08 6:51	erf
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	07/29/08 6:51	erf
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	07/29/08 6:51	erf
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/29/08 6:51	erf
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	07/29/08 6:51	erf
Copper, total (3050)	M6010B ICP	512			mg/Kg	1	5	07/29/08 6:51	erf
Lead, total (3050)	M6020 ICP-MS	2.14		*	mg/Kg	0.05	0.3	07/31/08 0:50	erf
Manganese, total (3050)	M6010B ICP	448		*	mg/Kg	0.5	3	07/29/08 6:51	erf
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	07/22/08 21:13	pmc
Molybdenum, total (3050)	M6010B ICP	7			mg/Kg	1	5	07/29/08 6:51	erf
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	07/29/08 6:51	erf
Selenium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	07/29/08 15:11	msh
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	07/29/08 15:11	msh
Uranium, total (3050)	M6020 ICP-MS	4.76		*	mg/Kg	0.05	0.3	07/29/08 15:11	msh
Zinc, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	07/29/08 6:51	erf

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.6		*	%	0.1	0.5	07/23/08 17:30	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/23/08 11:36	bjl
Digestion - Hot Plate	M3050B ICP-MS							07/25/08 12:53	lwt/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				07/23/08 19:35	brd

Arizona license number: AZ0102

ER 8/11/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70791

Sampling Event: July 23<sup>rd</sup> & 28<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 20 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-Q09-0-1	SA	L70791-01	S	X <sup>m</sup>
CP-Q09-1-3	SA	L70791-02	S	X
CP-SD-07-0-1.5	SA	L70791-03	S	X
CP-SD-07-1.5-3.0	SA	L70791-04	S	X
CP-P12-0-1	SA	L70791-05	S	X
CP-P12-1-3	SA	L70791-06	S	X
CP-SD-08-0-1.5	SA	L70791-07	S	X
CP-SD-08-1.5-3.0	SA	L70791-08	S	X
CP-SD-10-0-1.5	SA	L70791-09	S	X
CP-SD-10-1.5-3.0	SA	L70791-10	S	X
CP-SD-09-0-1.5	SA	L70791-11	S	X
CP-SD-09-1.5-3.0	SA	L70791-12	S	X
OD-SD-01-0-1.5	SA	L70791-13	S	X
OD-SD-01-1.5-3.0	SA	L70791-14	S	X
OD-SD-02-0-1.5	SA	L70791-15	S	X
OD-SD-02-1.5-3.0	SA	L70791-16	S	X
OD-SD-04-0-1.5	SA	L70791-17	S	X
OD-SD-04-1.5-3.0	SA	L70791-18	S	X
OD-SD-03-0-1.5	SA	L70791-19	S	X
OD-SD-03-1.5-3.0	SA	L70791-20	S	X <sup>m</sup>

Matrix: S = Soil      QC Type: SA = Sample      m = Matrix spike and/or matrix spike duplicate.

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.
- X   Data are usable with qualification (noted below).
- \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 3.4°C and 0.7°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD CP-Q09-0-1 (Antimony, Arsenic, Lead, Mercury, Selenium, Thallium, Uranium)</li> <li>OD-SD-03-1.5-3.0 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>• LD CP-Q09-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample OD-SD-03-1.5-3.0 could not be evaluated for copper, manganese, and zinc because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.

Review Parameter	Criteria Met?	Comments
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Antimony	MB	0.25 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
CP-Q09-0-1	Antimony	<b>40.2/ 40.8</b> (75-125)	As the potential bias was considered to be low, the antimony result for sample CP-Q09-0-1 was flagged with a M2.
OD-SD-03-1.5-3.0	Barium	<b>163.1/ 162.2</b> (75-125)	As the potential bias was considered to be high, the barium result for sample OD-SD-03-1.5-3.0 was flagged with a M1.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-Q09-0-1

ACZ Sample ID: **L70791-01**  
 Date Sampled: 07/23/08 10:15  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	<del>0.3</del> 0.3	B	*	mg/Kg	0.2	1	08/15/08 22:41	msh
Arsenic, total (3050)	M6020 ICP-MS	2.3			mg/Kg	0.3	0.5	08/14/08 20:04	erf/msh
Barium, total (3050)	M6010B ICP	120		*	mg/Kg	0.3	2	08/14/08 23:30	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/16/08 1:50	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:30	aeh
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/14/08 23:30	aeh
Cobalt, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/14/08 23:30	aeh
Copper, total (3050)	M6010B ICP	724		*	mg/Kg	1	5	08/14/08 23:30	aeh
Lead, total (3050)	M6020 ICP-MS	4.61			mg/Kg	0.05	0.3	08/14/08 20:04	erf/msh
Manganese, total (3050)	M6010B ICP	202		*	mg/Kg	0.5	3	08/16/08 1:50	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:27	jws
Molybdenum, total (3050)	M6010B ICP	123			mg/Kg	1	5	08/14/08 23:30	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/14/08 23:30	aeh
Selenium, total (3050)	M6020 ICP-MS	0.35			mg/Kg	0.05	0.3	08/14/08 20:04	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/15/08 22:41	msh
Uranium, total (3050)	M6020 ICP-MS	2.21		*	mg/Kg	0.05	0.3	08/14/08 20:04	erf/msh
Zinc, total (3050)	M6010B ICP	44		*	mg/Kg	1	5	08/14/08 23:30	aeh

EE 9/16/08  
 # M2

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	07/30/08 8:09	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/29/08 21:39	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 12:34	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:30	lwt/brd

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EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-Q09-1-3

ACZ Sample ID: **L70791-02**  
 Date Sampled: 07/23/08 10:15  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 23:01	msh
Arsenic, total (3050)	M6020 ICP-MS	1.5			mg/Kg	0.3	0.5	08/14/08 20:23	erf/msh
Barium, total (3050)	M6010B ICP	247		*	mg/Kg	0.3	2	08/14/08 23:34	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/16/08 1:54	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:34	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/14/08 23:34	aeh
Cobalt, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/14/08 23:34	aeh
Copper, total (3050)	M6010B ICP	499		*	mg/Kg	1	5	08/14/08 23:34	aeh
Lead, total (3050)	M6020 ICP-MS	3.19			mg/Kg	0.05	0.3	08/14/08 20:23	erf/msh
Manganese, total (3050)	M6010B ICP	170		*	mg/Kg	0.5	3	08/16/08 1:54	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:34	jws
Molybdenum, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/14/08 23:34	aeh
Nickel, total (3050)	M6010B ICP	22			mg/Kg	1	5	08/14/08 23:34	aeh
Selenium, total (3050)	M6020 ICP-MS	0.14	B		mg/Kg	0.05	0.3	08/14/08 20:23	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.49			mg/Kg	0.05	0.3	08/15/08 23:01	msh
Uranium, total (3050)	M6020 ICP-MS	2.67		*	mg/Kg	0.05	0.3	08/14/08 20:23	erf/msh
Zinc, total (3050)	M6010B ICP	30		*	mg/Kg	1	5	08/14/08 23:34	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.4		*	%	0.1	0.5	07/30/08 10:27	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/29/08 22:10	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 13:09	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:33	lwt/brd

Arizona license number: AZ0102

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### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CP-SD-07-0-1.5

ACZ Sample ID: **L70791-03**  
 Date Sampled: 07/23/08 10:47  
 Date Received: 07/29/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 23:07	msh
Arsenic, total (3050)	M6020 ICP-MS	2.9			mg/Kg	0.3	0.5	08/14/08 20:30	erf/msh
Barium, total (3050)	M6010B ICP	136		*	mg/Kg	0.3	2	08/14/08 23:37	aeh
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/16/08 1:57	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/14/08 23:37	aeh
Chromium, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/14/08 23:37	aeh
Cobalt, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/14/08 23:37	aeh
Copper, total (3050)	M6010B ICP	439		*	mg/Kg	1	5	08/14/08 23:37	aeh
Lead, total (3050)	M6020 ICP-MS	7.05			mg/Kg	0.05	0.3	08/14/08 20:30	erf/msh
Manganese, total (3050)	M6010B ICP	298		*	mg/Kg	0.5	3	08/16/08 1:57	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 14:36	jws
Molybdenum, total (3050)	M6010B ICP	42			mg/Kg	1	5	08/14/08 23:37	aeh
Nickel, total (3050)	M6010B ICP	33			mg/Kg	1	5	08/14/08 23:37	aeh
Selenium, total (3050)	M6020 ICP-MS	0.34			mg/Kg	0.05	0.3	08/14/08 20:30	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.27	B		mg/Kg	0.05	0.3	08/15/08 23:07	msh
Uranium, total (3050)	M6020 ICP-MS	3.45		*	mg/Kg	0.05	0.3	08/14/08 20:30	erf/msh
Zinc, total (3050)	M6010B ICP	45		*	mg/Kg	1	5	08/14/08 23:37	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	07/30/08 11:37	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/29/08 22:41	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 13:20	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:37	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-07-1.5-3.0

ACZ Sample ID: **L70791-04**  
 Date Sampled: 07/23/08 10:47  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 23:26	msh
Arsenic, total (3050)	M6020 ICP-MS	0.8			mg/Kg	0.3	0.5	08/14/08 20:49	erf/msh
Barium, total (3050)	M6010B ICP	166		*	mg/Kg	0.3	2	08/14/08 23:40	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/16/08 2:01	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:40	aeh
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/14/08 23:40	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/14/08 23:40	aeh
Copper, total (3050)	M6010B ICP	180		*	mg/Kg	1	5	08/14/08 23:40	aeh
Lead, total (3050)	M6020 ICP-MS	2.49			mg/Kg	0.05	0.3	08/14/08 20:49	erf/msh
Manganese, total (3050)	M6010B ICP	344		*	mg/Kg	0.5	3	08/16/08 2:01	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:38	jws
Molybdenum, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/14/08 23:40	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/14/08 23:40	aeh
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	08/14/08 20:49	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.30	B		mg/Kg	0.05	0.3	08/15/08 23:26	msh
Uranium, total (3050)	M6020 ICP-MS	2.19		*	mg/Kg	0.05	0.3	08/15/08 23:26	msh
Zinc, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	08/14/08 23:40	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.8		*	%	0.1	0.5	07/30/08 12:46	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/29/08 23:12	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 13:32	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:40	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P12-0-1

ACZ Sample ID: **L70791-05**  
 Date Sampled: 07/23/08 11:03  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.9	B	*	mg/Kg	0.2	1	08/15/08 23:33	msh
Arsenic, total (3050)	M6020 ICP-MS	5.5			mg/Kg	0.3	0.5	08/14/08 20:56	erf/msh
Barium, total (3050)	M6010B ICP	81.4		*	mg/Kg	0.3	2	08/14/08 23:44	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/16/08 2:12	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:44	aeh
Chromium, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/14/08 23:44	aeh
Cobalt, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/14/08 23:44	aeh
Copper, total (3050)	M6010B ICP	1680		*	mg/Kg	1	5	08/14/08 23:44	aeh
Lead, total (3050)	M6020 ICP-MS	39.00			mg/Kg	0.05	0.3	08/14/08 20:56	erf/msh
Manganese, total (3050)	M6010B ICP	167		*	mg/Kg	0.5	3	08/16/08 2:12	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:40	jws
Molybdenum, total (3050)	M6010B ICP	239			mg/Kg	1	5	08/14/08 23:44	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/14/08 23:44	aeh
Selenium, total (3050)	M6020 ICP-MS	1.48		*	mg/Kg	0.05	0.3	08/28/08 18:30	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/15/08 23:33	msh
Uranium, total (3050)	M6020 ICP-MS	3.15		*	mg/Kg	0.05	0.3	08/15/08 23:33	msh
Zinc, total (3050)	M6010B ICP	96		*	mg/Kg	1	5	08/14/08 23:44	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.4		*	%	0.1	0.5	07/30/08 13:55	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/29/08 23:43	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 13:43	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:44	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-P12-1-3

ACZ Sample ID: **L70791-06**  
 Date Sampled: 07/23/08 11:03  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/15/08 23:39	msh
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	08/14/08 21:02	erf/msh
Barium, total (3050)	M6010B ICP	49.9		*	mg/Kg	0.3	2	08/14/08 23:47	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/16/08 2:16	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:47	aeh
Chromium, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/14/08 23:47	aeh
Cobalt, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/14/08 23:47	aeh
Copper, total (3050)	M6010B ICP	337		*	mg/Kg	1	5	08/14/08 23:47	aeh
Lead, total (3050)	M6020 ICP-MS	7.98			mg/Kg	0.05	0.3	08/14/08 21:02	erf/msh
Manganese, total (3050)	M6010B ICP	85.0		*	mg/Kg	0.5	3	08/16/08 2:16	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:47	jws
Molybdenum, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/14/08 23:47	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/14/08 23:47	aeh
Selenium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 18:32	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B		mg/Kg	0.05	0.3	08/15/08 23:39	msh
Uranium, total (3050)	M6020 ICP-MS	1.30		*	mg/Kg	0.05	0.3	08/15/08 23:39	msh
Zinc, total (3050)	M6010B ICP	27		*	mg/Kg	1	5	08/14/08 23:47	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	07/30/08 15:04	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 0:14	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 13:55	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:47	lwt/brd

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-08-0-1.5

ACZ Sample ID: **L70791-07**  
 Date Sampled: 07/28/08 09:10  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 23:46	msh
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	0.5	08/14/08 21:09	erf/msh
Barium, total (3050)	M6010B ICP	135		*	mg/Kg	0.3	2	08/14/08 23:51	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/16/08 2:19	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/14/08 23:51	aeh
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/14/08 23:51	aeh
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/14/08 23:51	aeh
Copper, total (3050)	M6010B ICP	599		*	mg/Kg	1	5	08/14/08 23:51	aeh
Lead, total (3050)	M6020 ICP-MS	6.87			mg/Kg	0.05	0.3	08/14/08 21:09	erf/msh
Manganese, total (3050)	M6010B ICP	283		*	mg/Kg	0.5	3	08/16/08 2:19	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:49	jws
Molybdenum, total (3050)	M6010B ICP	86			mg/Kg	1	5	08/14/08 23:51	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/14/08 23:51	aeh
Selenium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/28/08 18:33	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B		mg/Kg	0.05	0.3	08/15/08 23:46	msh
Uranium, total (3050)	M6020 ICP-MS	5.96		*	mg/Kg	0.05	0.3	08/15/08 23:46	msh
Zinc, total (3050)	M6010B ICP	50		*	mg/Kg	1	5	08/14/08 23:51	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.0		*	%	0.1	0.5	07/30/08 16:14	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 0:46	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 14:06	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:51	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-08-1.5-3.0

ACZ Sample ID: **L70791-08**  
 Date Sampled: 07/28/08 09:10  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 23:52	msh
Arsenic, total (3050)	M6020 ICP-MS	1.2			mg/Kg	0.3	0.5	08/14/08 21:15	erf/msh
Barium, total (3050)	M6010B ICP	164		*	mg/Kg	0.3	2	08/15/08 0:01	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/16/08 2:23	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:01	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 0:01	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/15/08 0:01	aeh
Copper, total (3050)	M6010B ICP	142		*	mg/Kg	1	5	08/15/08 0:01	aeh
Lead, total (3050)	M6020 ICP-MS	3.69			mg/Kg	0.05	0.3	08/14/08 21:15	erf/msh
Manganese, total (3050)	M6010B ICP	300		*	mg/Kg	0.5	3	08/16/08 2:23	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:51	jws
Molybdenum, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 0:01	aeh
Nickel, total (3050)	M6010B ICP	27			mg/Kg	1	5	08/15/08 0:01	aeh
Selenium, total (3050)	M6020 ICP-MS	0.09	B	*	mg/Kg	0.05	0.3	08/28/08 18:38	rac
Thallium, total (3050)	M6020 ICP-MS	0.33			mg/Kg	0.05	0.3	08/15/08 23:52	msh
Uranium, total (3050)	M6020 ICP-MS	3.99		*	mg/Kg	0.05	0.3	08/15/08 23:52	msh
Zinc, total (3050)	M6010B ICP	52		*	mg/Kg	1	5	08/15/08 0:01	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.4		*	%	0.1	0.5	07/30/08 17:23	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 1:17	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 14:18	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:54	lwt/brd

**Arizona license number: AZ0102**

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-10-0-1.5

ACZ Sample ID: **L70791-09**  
 Date Sampled: 07/28/08 10:00  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 23:59	msh
Arsenic, total (3050)	M6020 ICP-MS	3.6			mg/Kg	0.3	0.5	08/14/08 21:22	erf/msh
Barium, total (3050)	M6010B ICP	161		*	mg/Kg	0.3	2	08/15/08 0:05	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/16/08 2:27	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:05	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 0:05	aeh
Cobalt, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 0:05	aeh
Copper, total (3050)	M6010B ICP	570		*	mg/Kg	1	5	08/15/08 0:05	aeh
Lead, total (3050)	M6020 ICP-MS	6.23			mg/Kg	0.05	0.3	08/14/08 21:22	erf/msh
Manganese, total (3050)	M6010B ICP	278		*	mg/Kg	0.5	3	08/16/08 2:27	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:53	jws
Molybdenum, total (3050)	M6010B ICP	84			mg/Kg	1	5	08/15/08 0:05	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/15/08 0:05	aeh
Selenium, total (3050)	M6020 ICP-MS	0.34		*	mg/Kg	0.05	0.3	08/28/08 18:39	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B		mg/Kg	0.05	0.3	08/15/08 23:59	msh
Uranium, total (3050)	M6020 ICP-MS	4.13		*	mg/Kg	0.05	0.3	08/15/08 23:59	msh
Zinc, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	08/15/08 0:05	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.5		*	%	0.1	0.5	07/30/08 18:32	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 1:48	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 14:29	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 11:58	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-10-1.5-3.0

ACZ Sample ID: **L70791-10**  
 Date Sampled: 07/28/08 10:00  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/16/08 0:05	msh
Arsenic, total (3050)	M6020 ICP-MS	1.2			mg/Kg	0.3	0.5	08/14/08 21:28	erf/msh
Barium, total (3050)	M6010B ICP	193		*	mg/Kg	0.3	2	08/15/08 0:08	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/16/08 2:30	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:08	aeh
Chromium, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 0:08	aeh
Cobalt, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/15/08 0:08	aeh
Copper, total (3050)	M6010B ICP	269		*	mg/Kg	1	5	08/15/08 0:08	aeh
Lead, total (3050)	M6020 ICP-MS	1.81			mg/Kg	0.05	0.3	08/14/08 21:28	erf/msh
Manganese, total (3050)	M6010B ICP	332		*	mg/Kg	0.5	3	08/16/08 2:30	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 14:55	jws
Molybdenum, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/15/08 0:08	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/15/08 0:08	aeh
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	08/14/08 21:28	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.32			mg/Kg	0.05	0.3	08/16/08 0:05	msh
Uranium, total (3050)	M6020 ICP-MS	4.41		*	mg/Kg	0.05	0.3	08/16/08 0:05	msh
Zinc, total (3050)	M6010B ICP	53		*	mg/Kg	1	5	08/15/08 0:08	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.6		*	%	0.1	0.5	07/30/08 19:42	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 2:19	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 14:41	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:01	lwt/brd

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ER 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CP-SD-09-0-1.5

ACZ Sample ID: **L70791-11**  
 Date Sampled: 07/28/08 10:39  
 Date Received: 07/29/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/16/08 0:11	msh
Arsenic, total (3050)	M6020 ICP-MS	1.9			mg/Kg	0.3	0.5	08/14/08 21:35	erf/msh
Barium, total (3050)	M6010B ICP	139		*	mg/Kg	0.3	2	08/15/08 0:11	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/16/08 2:34	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/15/08 0:11	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 0:11	aeh
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/15/08 0:11	aeh
Copper, total (3050)	M6010B ICP	1100		*	mg/Kg	1	5	08/15/08 0:11	aeh
Lead, total (3050)	M6020 ICP-MS	11.30			mg/Kg	0.05	0.3	08/14/08 21:35	erf/msh
Manganese, total (3050)	M6010B ICP	312		*	mg/Kg	0.5	3	08/16/08 2:34	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 14:58	jws
Molybdenum, total (3050)	M6010B ICP	157			mg/Kg	1	5	08/15/08 0:11	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/15/08 0:11	aeh
Selenium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	08/28/08 18:41	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	08/16/08 0:11	msh
Uranium, total (3050)	M6020 ICP-MS	2.44		*	mg/Kg	0.05	0.3	08/16/08 0:11	msh
Zinc, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	08/15/08 0:11	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	07/30/08 20:51	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 2:50	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 14:53	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:05	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-SD-09-1.5-3.0

ACZ Sample ID: **L70791-12**  
 Date Sampled: 07/28/08 10:39  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/16/08 0:24	msh
Arsenic, total (3050)	M6020 ICP-MS	0.7			mg/Kg	0.3	0.5	08/14/08 21:48	erf/msh
Barium, total (3050)	M6010B ICP	131		*	mg/Kg	0.3	2	08/15/08 0:15	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/16/08 2:37	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:15	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 0:15	aeh
Cobalt, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 0:15	aeh
Copper, total (3050)	M6010B ICP	380		*	mg/Kg	1	5	08/15/08 0:15	aeh
Lead, total (3050)	M6020 ICP-MS	26.60			mg/Kg	0.05	0.3	08/14/08 21:48	erf/msh
Manganese, total (3050)	M6010B ICP	239		*	mg/Kg	0.5	3	08/16/08 2:37	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:00	jws
Molybdenum, total (3050)	M6010B ICP	25			mg/Kg	1	5	08/15/08 0:15	aeh
Nickel, total (3050)	M6010B ICP	28			mg/Kg	1	5	08/15/08 0:15	aeh
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.05	0.3	08/14/08 21:48	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.25	B		mg/Kg	0.05	0.3	08/16/08 0:24	msh
Uranium, total (3050)	M6020 ICP-MS	2.46		*	mg/Kg	0.05	0.3	08/16/08 0:24	msh
Zinc, total (3050)	M6010B ICP	52		*	mg/Kg	1	5	08/15/08 0:15	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.8		*	%	0.1	0.5	07/30/08 22:00	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 3:21	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 15:04	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:08	lwt/brd

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ER 9/16/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: OD-SD-01-0-1.5

ACZ Sample ID: **L70791-13**  
Date Sampled: 07/28/08 10:58  
Date Received: 07/29/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/16/08 0:43	msh
Arsenic, total (3050)	M6020 ICP-MS	2.0		*	mg/Kg	0.3	0.5	08/21/08 10:56	msh
Barium, total (3050)	M6010B ICP	184		*	mg/Kg	0.3	2	08/15/08 0:18	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/16/08 2:41	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/15/08 0:18	aeh
Chromium, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 0:18	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/15/08 0:18	aeh
Copper, total (3050)	M6010B ICP	361		*	mg/Kg	1	5	08/15/08 0:18	aeh
Lead, total (3050)	M6020 ICP-MS	5.32			mg/Kg	0.05	0.3	08/14/08 22:07	erf/msh
Manganese, total (3050)	M6010B ICP	332		*	mg/Kg	0.5	3	08/16/08 2:41	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 15:03	jws
Molybdenum, total (3050)	M6010B ICP	87			mg/Kg	1	5	08/15/08 0:18	aeh
Nickel, total (3050)	M6010B ICP	30			mg/Kg	1	5	08/15/08 0:18	aeh
Selenium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	08/28/08 18:42	rac
Thallium, total (3050)	M6020 ICP-MS	0.29	B		mg/Kg	0.05	0.3	08/16/08 0:43	msh
Uranium, total (3050)	M6020 ICP-MS	3.11		*	mg/Kg	0.05	0.3	08/16/08 0:43	msh
Zinc, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/15/08 0:18	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.0		*	%	0.1	0.5	07/30/08 23:09	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 3:52	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 15:16	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:12	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-01-1.5-3.0

ACZ Sample ID: **L70791-14**  
 Date Sampled: 07/28/08 10:58  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/16/08 0:50	msh
Arsenic, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.3	0.5	08/21/08 11:01	msh
Barium, total (3050)	M6010B ICP	185		*	mg/Kg	0.3	2	08/15/08 0:22	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/16/08 2:45	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:22	aeh
Chromium, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/15/08 0:22	aeh
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/15/08 0:22	aeh
Copper, total (3050)	M6010B ICP	125		*	mg/Kg	1	5	08/15/08 0:22	aeh
Lead, total (3050)	M6020 ICP-MS	2.59			mg/Kg	0.05	0.3	08/14/08 22:14	erf/msh
Manganese, total (3050)	M6010B ICP	346		*	mg/Kg	0.5	3	08/16/08 2:45	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:05	jws
Molybdenum, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/15/08 0:22	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/15/08 0:22	aeh
Selenium, total (3050)	M6020 ICP-MS	0.08	B	*	mg/Kg	0.05	0.3	08/28/08 18:43	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B		mg/Kg	0.05	0.3	08/16/08 0:50	msh
Uranium, total (3050)	M6020 ICP-MS	7.42		*	mg/Kg	0.05	0.3	08/16/08 0:50	msh
Zinc, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	08/15/08 0:22	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.4		*	%	0.1	0.5	07/31/08 0:19	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 4:23	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 15:27	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:15	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-02-0-1.5

ACZ Sample ID: **L70791-15**  
 Date Sampled: 07/28/08 11:11  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/16/08 0:56	msh
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	0.5	08/21/08 11:06	msh
Barium, total (3050)	M6010B ICP	173		*	mg/Kg	0.3	2	08/15/08 0:25	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/16/08 2:56	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:25	aeh
Chromium, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 0:25	aeh
Cobalt, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/15/08 0:25	aeh
Copper, total (3050)	M6010B ICP	376		*	mg/Kg	1	5	08/15/08 0:25	aeh
Lead, total (3050)	M6020 ICP-MS	7.63			mg/Kg	0.05	0.3	08/14/08 22:20	erf/msh
Manganese, total (3050)	M6010B ICP	390		*	mg/Kg	0.5	3	08/16/08 2:56	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:08	jws
Molybdenum, total (3050)	M6010B ICP	107			mg/Kg	1	5	08/15/08 0:25	aeh
Nickel, total (3050)	M6010B ICP	32			mg/Kg	1	5	08/15/08 0:25	aeh
Selenium, total (3050)	M6020 ICP-MS	0.42		*	mg/Kg	0.05	0.3	08/28/08 18:45	rac
Thallium, total (3050)	M6020 ICP-MS	0.30			mg/Kg	0.05	0.3	08/16/08 0:56	msh
Uranium, total (3050)	M6020 ICP-MS	4.66		*	mg/Kg	0.05	0.3	08/16/08 0:56	msh
Zinc, total (3050)	M6010B ICP	60		*	mg/Kg	1	5	08/15/08 0:25	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.1		*	%	0.1	0.5	07/31/08 1:28	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 4:54	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 15:39	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:19	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: OD-SD-02-1.5-3.0

ACZ Sample ID: **L70791-16**  
 Date Sampled: 07/28/08 11:11  
 Date Received: 07/29/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/16/08 1:03	msh
Arsenic, total (3050)	M6020 ICP-MS	0.9		*	mg/Kg	0.3	0.5	08/21/08 11:11	msh
Barium, total (3050)	M6010B ICP	173		*	mg/Kg	0.3	2	08/15/08 0:29	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/16/08 2:59	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:29	aeh
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 0:29	aeh
Cobalt, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 0:29	aeh
Copper, total (3050)	M6010B ICP	27		*	mg/Kg	1	5	08/15/08 0:29	aeh
Lead, total (3050)	M6020 ICP-MS	1.89			mg/Kg	0.05	0.3	08/14/08 22:26	erf/msh
Manganese, total (3050)	M6010B ICP	320		*	mg/Kg	0.5	3	08/16/08 2:59	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:15	jws
Molybdenum, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/15/08 0:29	aeh
Nickel, total (3050)	M6010B ICP	26			mg/Kg	1	5	08/15/08 0:29	aeh
Selenium, total (3050)	M6020 ICP-MS	0.07	B	*	mg/Kg	0.05	0.3	08/28/08 18:46	rac
Thallium, total (3050)	M6020 ICP-MS	0.32			mg/Kg	0.05	0.3	08/16/08 1:03	msh
Uranium, total (3050)	M6020 ICP-MS	3.37		*	mg/Kg	0.05	0.3	08/16/08 1:03	msh
Zinc, total (3050)	M6010B ICP	41		*	mg/Kg	1	5	08/15/08 0:29	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.8		*	%	0.1	0.5	07/31/08 2:37	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 5:25	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 15:50	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:23	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-04-0-1.5

ACZ Sample ID: **L70791-17**  
 Date Sampled: 07/28/08 12:34  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/16/08 1:09	msh
Arsenic, total (3050)	M6020 ICP-MS	3.1		*	mg/Kg	0.3	0.5	08/21/08 11:16	msh
Barium, total (3050)	M6010B ICP	118		*	mg/Kg	0.3	2	08/15/08 0:32	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/16/08 3:03	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/15/08 0:32	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 0:32	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/15/08 0:32	aeh
Copper, total (3050)	M6010B ICP	1640		*	mg/Kg	1	5	08/15/08 0:32	aeh
Lead, total (3050)	M6020 ICP-MS	8.86			mg/Kg	0.05	0.3	08/14/08 22:33	erf/msh
Manganese, total (3050)	M6010B ICP	262		*	mg/Kg	0.5	3	08/16/08 3:03	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 15:17	jws
Molybdenum, total (3050)	M6010B ICP	128			mg/Kg	1	5	08/15/08 0:32	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/15/08 0:32	aeh
Selenium, total (3050)	M6020 ICP-MS	0.53		*	mg/Kg	0.05	0.3	08/28/08 18:48	rac
Thallium, total (3050)	M6020 ICP-MS	0.30	B		mg/Kg	0.05	0.3	08/16/08 1:09	msh
Uranium, total (3050)	M6020 ICP-MS	4.25		*	mg/Kg	0.05	0.3	08/16/08 1:09	msh
Zinc, total (3050)	M6010B ICP	68		*	mg/Kg	1	5	08/15/08 0:32	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	07/31/08 3:47	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 5:56	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 16:02	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:26	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-04-1.5-3.0

ACZ Sample ID: **L70791-18**  
 Date Sampled: 07/28/08 12:34  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/16/08 1:16	msh
Arsenic, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.3	0.5	08/21/08 11:31	msh
Barium, total (3050)	M6010B ICP	133		*	mg/Kg	0.3	2	08/15/08 0:43	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/16/08 3:07	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:43	aeh
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 0:43	aeh
Cobalt, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 0:43	aeh
Copper, total (3050)	M6010B ICP	671		*	mg/Kg	1	5	08/15/08 0:43	aeh
Lead, total (3050)	M6020 ICP-MS	2.20			mg/Kg	0.05	0.3	08/14/08 22:39	erf/msh
Manganese, total (3050)	M6010B ICP	258		*	mg/Kg	0.5	3	08/16/08 3:07	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:19	jws
Molybdenum, total (3050)	M6010B ICP	25			mg/Kg	1	5	08/15/08 0:43	aeh
Nickel, total (3050)	M6010B ICP	27			mg/Kg	1	5	08/15/08 0:43	aeh
Selenium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 18:49	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/16/08 1:16	msh
Uranium, total (3050)	M6020 ICP-MS	2.18		*	mg/Kg	0.05	0.3	08/16/08 1:16	msh
Zinc, total (3050)	M6010B ICP	48		*	mg/Kg	1	5	08/15/08 0:43	aeh

**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	07/31/08 4:56	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 6:27	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 16:13	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:30	lwt/brd

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-03-0-1.5

ACZ Sample ID: **L70791-19**  
 Date Sampled: 07/28/08 13:00  
 Date Received: 07/29/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/16/08 1:22	msh
Arsenic, total (3050)	M6020 ICP-MS	2.7		*	mg/Kg	0.3	0.5	08/21/08 11:36	msh
Barium, total (3050)	M6010B ICP	158		*	mg/Kg	0.3	2	08/15/08 0:46	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/16/08 3:10	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 0:46	aeh
Chromium, total (3050)	M6010B ICP	18		*	mg/Kg	1	5	08/15/08 0:46	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/15/08 0:46	aeh
Copper, total (3050)	M6010B ICP	2350		*	mg/Kg	1	5	08/15/08 0:46	aeh
Lead, total (3050)	M6020 ICP-MS	46.70			mg/Kg	0.05	0.3	08/14/08 22:46	erf/msh
Manganese, total (3050)	M6010B ICP	316		*	mg/Kg	0.5	3	08/16/08 3:10	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:21	jws
Molybdenum, total (3050)	M6010B ICP	100			mg/Kg	1	5	08/15/08 0:46	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	08/15/08 0:46	aeh
Selenium, total (3050)	M6020 ICP-MS	0.41		*	mg/Kg	0.05	0.3	08/28/08 18:51	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B		mg/Kg	0.05	0.3	08/16/08 1:22	msh
Uranium, total (3050)	M6020 ICP-MS	7.57		*	mg/Kg	0.05	0.3	08/16/08 1:22	msh
Zinc, total (3050)	M6010B ICP	147		*	mg/Kg	1	5	08/15/08 0:46	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	07/31/08 6:05	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 6:58	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 16:25	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:33	lwt/brd

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-03-1.5-3.0

ACZ Sample ID: **L70791-20**  
 Date Sampled: 07/28/08 13:00  
 Date Received: 07/29/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.4	2	08/16/08 1:28	msh
Arsenic, total (3050)	M6020 ICP-MS	2.8		*	mg/Kg	0.5	1	08/21/08 11:41	msh
Barium, total (3050)	M6010B ICP	87.9		*	mg/Kg	0.3	2	08/15/08 0:49	aeh <b>MI</b>
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/16/08 3:14	aeh
Cadmium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.5	2	08/15/08 0:49	aeh
Chromium, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 0:49	aeh
Cobalt, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/15/08 0:49	aeh
Copper, total (3050)	M6010B ICP	4390		*	mg/Kg	1	5	08/15/08 0:49	aeh
Lead, total (3050)	M6020 ICP-MS	253			mg/Kg	0.1	0.5	08/16/08 1:28	msh
Manganese, total (3050)	M6010B ICP	173		*	mg/Kg	0.5	3	08/16/08 3:14	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/11/08 15:23	jws
Molybdenum, total (3050)	M6010B ICP	145			mg/Kg	1	5	08/15/08 0:49	aeh
Nickel, total (3050)	M6010B ICP	30			mg/Kg	1	5	08/15/08 0:49	aeh
Selenium, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.1	0.5	08/28/08 18:55	rac
Thallium, total (3050)	M6020 ICP-MS	0.2	B		mg/Kg	0.1	0.5	08/16/08 1:28	msh
Uranium, total (3050)	M6020 ICP-MS	7.8		*	mg/Kg	0.1	0.5	08/16/08 1:28	msh
Zinc, total (3050)	M6010B ICP	201		*	mg/Kg	1	5	08/15/08 0:49	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	07/31/08 7:14	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 7:29	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/08/08 16:36	mjc/lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:37	lwt/brd

Arizona license number: AZ0102

*ER 9/16/08*

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70819

Sampling Event: July 29<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 08/27/08

Peer Reviewer: Geoff Webb

Date Completed: 08/27/08

This report summarizes the verification of analytical data for 15 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
OD-SD-05-0-1.5	SA	L70819-01	S	X <sup>M</sup>
OD-SD-05-1.5-3.0	SA	L70819-02	S	X
OD-SD-06-0-1.5	SA	L70819-03	S	X
OD-SD-06-1.5-3.0	SA	L70819-04	S	X
OD-JS-01-0-1	SA	L70819-05	S	X
OD-JS-01-1-3	SA	L70819-06	S	X
OD-JS-02-0-1	SA	L70819-07	S	X
OD-JS-02-1-3	SA	L70819-08	S	X
OD-JS-02-5-7	SA	L70819-09	S	X
EM-C22-0-1	SA	L70819-10	S	X
EM-C22-1-3	SA	L70819-11	S	X
EM-C22-5-7	SA	L70819-12	S	X
EM-E24-0-1	SA	L70819-13	S	X
EM-E24-1-3	SA	L70819-14	S	X
EM-E24-5-7	SA	L70819-15	S	X

Matrix: S = Soil      QC Type: SA = Sample      FD = Field Duplicate

X<sup>M</sup> = Matrix spike and/or matrix spike duplicate.

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.
- X   Data are usable with qualification (noted below).
- \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 5.6°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not required.
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Qualification of data was not required.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD OD-SD-05-0-1.5 (Total Barium, Total Beryllium, Total Cadmium, Total Cobalt, Total Mercury, Total Molybdenum, Total Nickel, Total Zinc)</li> <li>LD OD-SD-05-0-1.5 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample OD-SD-05-0-1.5 could not be evaluated for copper and manganese because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not required.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Qualification of data was not required.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

<b>Sample</b>	<b>Analyte</b>	<b>%Rs (Limits)</b>	<b>Qualification</b>
OD-SD-05-0-1.5	Total Barium	<b>157.6/ 129.4</b> (75-125)	As the potential bias was considered to be high, the barium result for sample OD-SD-05-0-1.5 was flagged with a M1.

%R = Percent Recovery

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: OD-SD-05-0-1.5

ACZ Sample ID: L70819-01  
 Date Sampled: 07/29/08 08:16  
 Date Received: 07/30/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.8	B	*	mg/Kg	0.2	1	08/13/08 19:49	rac
Arsenic, total (3050)	M6020 ICP-MS	6.2			mg/Kg	0.3	0.5	08/13/08 19:49	rac
Barium, total (3050)	M6010B ICP	141	M1	*	mg/Kg	0.3	2	08/15/08 1:52	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/15/08 13:42	aeh
Cadmium, total (3050)	M6010B ICP	1.1	B		mg/Kg	0.5	2	08/15/08 1:52	aeh
Chromium, total (3050)	M6010B ICP	22			mg/Kg	1	5	08/15/08 1:52	aeh
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 1:52	aeh
Copper, total (3050)	M6010B ICP	3960		*	mg/Kg	1	5	08/15/08 1:52	aeh
Lead, total (3050)	M6020 ICP-MS	102			mg/Kg	0.05	0.3	08/13/08 19:49	rac
Manganese, total (3050)	M6010B ICP	365		*	mg/Kg	0.5	3	08/15/08 13:42	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/11/08 15:51	jws
Molybdenum, total (3050)	M6010B ICP	230			mg/Kg	1	5	08/15/08 1:52	aeh
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/15/08 1:52	aeh
Selenium, total (3050)	M6020 ICP-MS	1.04		*	mg/Kg	0.05	0.3	08/13/08 19:49	rac
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	08/13/08 19:49	rac
Uranium, total (3050)	M6020 ICP-MS	5.57		*	mg/Kg	0.05	0.3	08/13/08 19:49	rac
Zinc, total (3050)	M6010B ICP	179			mg/Kg	1	5	08/15/08 1:52	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.5		*	%	0.1	0.5	07/30/08 23:41	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:03	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 10:36	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:40	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-05-1.5-3.0

ACZ Sample ID: **L70819-02**  
 Date Sampled: 07/29/08 08:16  
 Date Received: 07/30/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/13/08 20:02	rac
Arsenic, total (3050)	M6020 ICP-MS	4.6			mg/Kg	0.3	0.5	08/13/08 20:02	rac
Barium, total (3050)	M6010B ICP	169		*	mg/Kg	0.3	2	08/15/08 2:05	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:01	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:05	aeh
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	08/15/08 2:05	aeh
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/15/08 2:05	aeh
Copper, total (3050)	M6010B ICP	916		*	mg/Kg	1	5	08/15/08 2:05	aeh
Lead, total (3050)	M6020 ICP-MS	35.30			mg/Kg	0.05	0.3	08/13/08 20:02	rac
Manganese, total (3050)	M6010B ICP	402		*	mg/Kg	0.5	3	08/15/08 14:01	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 15:59	jws
Molybdenum, total (3050)	M6010B ICP	63			mg/Kg	1	5	08/15/08 2:05	aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/15/08 2:05	aeh
Selenium, total (3050)	M6020 ICP-MS	0.47		*	mg/Kg	0.05	0.3	08/13/08 20:02	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/13/08 20:02	rac
Uranium, total (3050)	M6020 ICP-MS	10.30		*	mg/Kg	0.05	0.3	08/13/08 20:02	rac
Zinc, total (3050)	M6010B ICP	105			mg/Kg	1	5	08/15/08 2:05	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.8		*	%	0.1	0.5	07/31/08 1:03	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:07	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 11:28	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:44	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-06-0-1.5

ACZ Sample ID: **L70819-03**  
 Date Sampled: 07/29/08 08:30  
 Date Received: 07/30/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/13/08 20:09	rac
Arsenic, total (3050)	M6020 ICP-MS	5.3			mg/Kg	0.3	0.5	08/13/08 20:09	rac
Barium, total (3050)	M6010B ICP	109		*	mg/Kg	0.3	2	08/15/08 2:09	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:05	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:09	aeh
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	08/15/08 2:09	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 2:09	aeh
Copper, total (3050)	M6010B ICP	2590		*	mg/Kg	1	5	08/15/08 2:09	aeh
Lead, total (3050)	M6020 ICP-MS	29.30			mg/Kg	0.05	0.3	08/13/08 20:09	rac
Manganese, total (3050)	M6010B ICP	334		*	mg/Kg	0.5	3	08/15/08 14:05	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:01	jws
Molybdenum, total (3050)	M6010B ICP	115			mg/Kg	1	5	08/15/08 2:09	aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/15/08 2:09	aeh
Selenium, total (3050)	M6020 ICP-MS	1.04		*	mg/Kg	0.05	0.3	08/13/08 20:09	rac
Thallium, total (3050)	M6020 ICP-MS	0.30	B	*	mg/Kg	0.05	0.3	08/13/08 20:09	rac
Uranium, total (3050)	M6020 ICP-MS	4.33		*	mg/Kg	0.05	0.3	08/13/08 20:09	rac
Zinc, total (3050)	M6010B ICP	198			mg/Kg	1	5	08/15/08 2:09	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.7		*	%	0.1	0.5	07/31/08 1:45	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:11	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 11:46	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:47	lwt/brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-SD-06-1.5-3.0

ACZ Sample ID: **L70819-04**  
 Date Sampled: 07/29/08 08:30  
 Date Received: 07/30/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/13/08 20:29	rac
Arsenic, total (3050)	M6020 ICP-MS	3.2			mg/Kg	0.3	0.5	08/13/08 20:29	rac
Barium, total (3050)	M6010B ICP	122		*	mg/Kg	0.3	2	08/15/08 2:12	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:08	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:12	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/15/08 2:12	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/15/08 2:12	aeh
Copper, total (3050)	M6010B ICP	1130		*	mg/Kg	1	5	08/15/08 2:12	aeh
Lead, total (3050)	M6020 ICP-MS	7.26			mg/Kg	0.05	0.3	08/13/08 20:29	rac
Manganese, total (3050)	M6010B ICP	552		*	mg/Kg	0.5	3	08/15/08 14:08	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:03	jws
Molybdenum, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 2:12	aeh
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 2:12	aeh
Selenium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	08/13/08 20:29	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	08/13/08 20:29	rac
Uranium, total (3050)	M6020 ICP-MS	6.42		*	mg/Kg	0.05	0.3	08/13/08 20:29	rac
Zinc, total (3050)	M6010B ICP	218			mg/Kg	1	5	08/15/08 2:12	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.5		*	%	0.1	0.5	07/31/08 2:26	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:15	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 12:03	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:51	lwt/brd

Arizona license number: AZ0102

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-JS-01-0-1

ACZ Sample ID: **L70819-05**  
 Date Sampled: 07/29/08 09:19  
 Date Received: 07/30/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/13/08 20:35	rac
Arsenic, total (3050)	M6020 ICP-MS	3.6			mg/Kg	0.3	0.5	08/13/08 20:35	rac
Barium, total (3050)	M6010B ICP	121		*	mg/Kg	0.3	2	08/15/08 2:23	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/15/08 14:11	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:23	aeh
Chromium, total (3050)	M6010B ICP	15			mg/Kg	1	5	08/15/08 2:23	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 2:23	aeh
Copper, total (3050)	M6010B ICP	1770		*	mg/Kg	1	5	08/15/08 2:23	aeh
Lead, total (3050)	M6020 ICP-MS	17.70			mg/Kg	0.05	0.3	08/13/08 20:35	rac
Manganese, total (3050)	M6010B ICP	231		*	mg/Kg	0.5	3	08/15/08 14:11	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:06	jws
Molybdenum, total (3050)	M6010B ICP	95			mg/Kg	1	5	08/15/08 2:23	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/15/08 2:23	aeh
Selenium, total (3050)	M6020 ICP-MS	1.10		*	mg/Kg	0.05	0.3	08/13/08 20:35	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	08/13/08 20:35	rac
Uranium, total (3050)	M6020 ICP-MS	5.30		*	mg/Kg	0.05	0.3	08/13/08 20:35	rac
Zinc, total (3050)	M6010B ICP	99			mg/Kg	1	5	08/15/08 2:23	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.8		*	%	0.1	0.5	07/31/08 3:07	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:19	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 12:20	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:54	lwt/brd

Arizona license number: AZ0102

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-JS-01-1-3

ACZ Sample ID: **L70819-06**  
 Date Sampled: 07/29/08 09:19  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/13/08 20:42	rac
Arsenic, total (3050)	M6020 ICP-MS	1.8			mg/Kg	0.3	0.5	08/13/08 20:42	rac
Barium, total (3050)	M6010B ICP	149		*	mg/Kg	0.3	2	08/15/08 2:26	aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/15/08 14:15	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:26	aeH
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 2:26	aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/15/08 2:26	aeH
Copper, total (3050)	M6010B ICP	121		*	mg/Kg	1	5	08/15/08 2:26	aeH
Lead, total (3050)	M6020 ICP-MS	2.10			mg/Kg	0.05	0.3	08/13/08 20:42	rac
Manganese, total (3050)	M6010B ICP	328		*	mg/Kg	0.5	3	08/15/08 14:15	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:13	jws
Molybdenum, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/15/08 2:26	aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/15/08 2:26	aeH
Selenium, total (3050)	M6020 ICP-MS	0.11	B	*	mg/Kg	0.05	0.3	08/13/08 20:42	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/13/08 20:42	rac
Uranium, total (3050)	M6020 ICP-MS	2.54		*	mg/Kg	0.05	0.3	08/13/08 20:42	rac
Zinc, total (3050)	M6010B ICP	42			mg/Kg	1	5	08/15/08 2:26	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	07/31/08 3:48	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:23	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 12:38	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 12:58	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-JS-02-0-1

ACZ Sample ID: **L70819-07**  
 Date Sampled: 07/29/08 09:57  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/13/08 20:48	rac
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	08/13/08 20:48	rac
Barium, total (3050)	M6010B ICP	96.8		*	mg/Kg	0.3	2	08/15/08 2:29	aeh
Beryllium, total (3050)	M6010B ICP			U	mg/Kg	0.2	1	08/15/08 14:18	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/15/08 2:29	aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/15/08 2:29	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/15/08 2:29	aeh
Copper, total (3050)	M6010B ICP	1840		*	mg/Kg	1	5	08/15/08 2:29	aeh
Lead, total (3050)	M6020 ICP-MS	13.80			mg/Kg	0.05	0.3	08/13/08 20:48	rac
Manganese, total (3050)	M6010B ICP	250		*	mg/Kg	0.5	3	08/15/08 14:18	aeh
Mercury, total	M7471A CVA			U	mg/Kg	0.04	0.2	08/11/08 16:15	jws
Molybdenum, total (3050)	M6010B ICP	304			mg/Kg	1	5	08/15/08 2:29	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/15/08 2:29	aeh
Selenium, total (3050)	M6020 ICP-MS	1.44		*	mg/Kg	0.05	0.3	08/13/08 20:48	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/13/08 20:48	rac
Uranium, total (3050)	M6020 ICP-MS	2.92		*	mg/Kg	0.05	0.3	08/13/08 20:48	rac
Zinc, total (3050)	M6010B ICP	83			mg/Kg	1	5	08/15/08 2:29	aeh

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	07/31/08 4:30	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:27	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 12:55	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:01	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: OD-JS-02-1-3

ACZ Sample ID: **L70819-08**  
 Date Sampled: 07/29/08 09:57  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/13/08 20:55	rac
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	08/13/08 20:55	rac
Barium, total (3050)	M6010B ICP	170		*	mg/Kg	0.3	2	08/15/08 2:33	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:21	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:33	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 2:33	aeh
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 2:33	aeh
Copper, total (3050)	M6010B ICP	1310		*	mg/Kg	1	5	08/15/08 2:33	aeh
Lead, total (3050)	M6020 ICP-MS	4.43			mg/Kg	0.05	0.3	08/13/08 20:55	rac
Manganese, total (3050)	M6010B ICP	391		*	mg/Kg	0.5	3	08/15/08 14:21	aeh
Mercury, total	M7471A CVAAs		U		mg/Kg	0.04	0.2	08/11/08 16:17	jws
Molybdenum, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 2:33	aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 2:33	aeh
Selenium, total (3050)	M6020 ICP-MS	0.11	B	*	mg/Kg	0.05	0.3	08/13/08 20:55	rac
Thallium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	08/13/08 20:55	rac
Uranium, total (3050)	M6020 ICP-MS	3.68		*	mg/Kg	0.05	0.3	08/13/08 20:55	rac
Zinc, total (3050)	M6010B ICP	89			mg/Kg	1	5	08/15/08 2:33	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	07/31/08 5:11	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:31	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 13:12	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:05	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: OD-JS-02-5-7

ACZ Sample ID: **L70819-09**  
 Date Sampled: 07/29/08 10:08  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/13/08 21:01	rac
Arsenic, total (3050)	M6020 ICP-MS	0.8			mg/Kg	0.3	0.5	08/13/08 21:01	rac
Barium, total (3050)	M6010B ICP	139		*	mg/Kg	0.3	2	08/15/08 2:36	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:24	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:36	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/15/08 2:36	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/15/08 2:36	aeh
Copper, total (3050)	M6010B ICP	110		*	mg/Kg	1	5	08/15/08 2:36	aeh
Lead, total (3050)	M6020 ICP-MS	2.12			mg/Kg	0.05	0.3	08/13/08 21:01	rac
Manganese, total (3050)	M6010B ICP	378		*	mg/Kg	0.5	3	08/15/08 14:24	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:19	jws
Molybdenum, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/15/08 2:36	aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 2:36	aeh
Selenium, total (3050)	M6020 ICP-MS	0.71		*	mg/Kg	0.05	0.3	08/13/08 21:01	rac
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/13/08 21:01	rac
Uranium, total (3050)	M6020 ICP-MS	7.34		*	mg/Kg	0.05	0.3	08/13/08 21:01	rac
Zinc, total (3050)	M6010B ICP	45			mg/Kg	1	5	08/15/08 2:36	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.5		*	%	0.1	0.5	07/31/08 5:52	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:35	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 13:29	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:08	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-C22-0-1

ACZ Sample ID: L70819-10  
 Date Sampled: 07/29/08 12:18  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.0		*	mg/Kg	0.2	1	08/13/08 21:08	rac
Arsenic, total (3050)	M6020 ICP-MS	13.9			mg/Kg	0.3	0.5	08/13/08 21:08	rac
Barium, total (3050)	M6010B ICP	82.7		*	mg/Kg	0.3	2	08/15/08 2:40	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:28	aeh
Cadmium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.5	2	08/15/08 2:40	aeh
Chromium, total (3050)	M6010B ICP	19			mg/Kg	1	5	08/15/08 2:40	aeh
Cobalt, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	08/15/08 2:40	aeh
Copper, total (3050)	M6010B ICP	5480		*	mg/Kg	1	5	08/15/08 2:40	aeh
Lead, total (3050)	M6020 ICP-MS	85.20			mg/Kg	0.05	0.3	08/13/08 21:08	rac
Manganese, total (3050)	M6010B ICP	323		*	mg/Kg	0.5	3	08/15/08 14:28	aeh
Mercury, total	M7471A CVAA	0.20	B		mg/Kg	0.04	0.2	08/11/08 16:21	jws
Molybdenum, total (3050)	M6010B ICP	4800			mg/Kg	1	5	08/15/08 2:40	aeh
Nickel, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/15/08 2:40	aeh
Selenium, total (3050)	M6020 ICP-MS	7.25		*	mg/Kg	0.05	0.3	08/13/08 21:08	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	08/13/08 21:08	rac
Uranium, total (3050)	M6020 ICP-MS	4.74		*	mg/Kg	0.05	0.3	08/13/08 21:08	rac
Zinc, total (3050)	M6010B ICP	332			mg/Kg	1	5	08/15/08 2:40	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.0		*	%	0.1	0.5	07/31/08 6:33	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:39	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 13:47	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:12	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-C22-1-3

ACZ Sample ID: **L70819-11**  
 Date Sampled: 07/29/08 12:18  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/13/08 21:14	rac
Arsenic, total (3050)	M6020 ICP-MS	5.1			mg/Kg	0.3	0.5	08/13/08 21:14	rac
Barium, total (3050)	M6010B ICP	161		*	mg/Kg	0.3	2	08/15/08 2:43	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:31	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/15/08 2:43	aeh
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	08/15/08 2:43	aeh
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/15/08 2:43	aeh
Copper, total (3050)	M6010B ICP	1120		*	mg/Kg	1	5	08/15/08 2:43	aeh
Lead, total (3050)	M6020 ICP-MS	12.10			mg/Kg	0.05	0.3	08/13/08 21:14	rac
Manganese, total (3050)	M6010B ICP	378		*	mg/Kg	0.5	3	08/15/08 14:31	aeh
Mercury, total	M7471A CVA			U	mg/Kg	0.04	0.2	08/11/08 16:24	jws
Molybdenum, total (3050)	M6010B ICP	270			mg/Kg	1	5	08/15/08 2:43	aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 2:43	aeh
Selenium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/13/08 21:14	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	08/13/08 21:14	rac
Uranium, total (3050)	M6020 ICP-MS	3.37		*	mg/Kg	0.05	0.3	08/13/08 21:14	rac
Zinc, total (3050)	M6010B ICP	122			mg/Kg	1	5	08/15/08 2:43	aeh

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	07/31/08 7:15	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:43	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 14:04	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:16	lwt/brd

Arizona license number: AZ0102

Et 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-C22-5-7

ACZ Sample ID: **L70819-12**

Date Sampled: 07/29/08 12:23

Date Received: 07/30/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/13/08 21:21	rac
Arsenic, total (3050)	M6020 ICP-MS	2.2			mg/Kg	0.3	0.5	08/13/08 21:21	rac
Barium, total (3050)	M6010B ICP	234		*	mg/Kg	0.3	2	08/15/08 2:47	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/15/08 14:41	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:47	aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/15/08 2:47	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/15/08 2:47	aeh
Copper, total (3050)	M6010B ICP	739		*	mg/Kg	1	5	08/15/08 2:47	aeh
Lead, total (3050)	M6020 ICP-MS	5.13			mg/Kg	0.05	0.3	08/13/08 21:21	rac
Manganese, total (3050)	M6010B ICP	370		*	mg/Kg	0.5	3	08/15/08 14:41	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:26	jws
Molybdenum, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/15/08 2:47	aeh
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/15/08 2:47	aeh
Selenium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	08/13/08 21:21	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/13/08 21:21	rac
Uranium, total (3050)	M6020 ICP-MS	2.45		*	mg/Kg	0.05	0.3	08/13/08 21:21	rac
Zinc, total (3050)	M6010B ICP	85			mg/Kg	1	5	08/15/08 2:47	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.0		*	%	0.1	0.5	07/31/08 7:56	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:47	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 14:21	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:19	lwt/brd

Arizona license number: AZ0102

ER 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-E24-0-1

ACZ Sample ID: **L70819-13**  
 Date Sampled: 07/29/08 13:21  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/13/08 21:27	rac
Arsenic, total (3050)	M6020 ICP-MS	5.0			mg/Kg	0.3	0.5	08/13/08 21:27	rac
Barium, total (3050)	M6010B ICP	149		*	mg/Kg	0.3	2	08/15/08 2:50	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/15/08 14:44	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:50	aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/15/08 2:50	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/15/08 2:50	aeh
Copper, total (3050)	M6010B ICP	2270		*	mg/Kg	1	5	08/15/08 2:50	aeh
Lead, total (3050)	M6020 ICP-MS	26.50			mg/Kg	0.05	0.3	08/13/08 21:27	rac
Manganese, total (3050)	M6010B ICP	364		*	mg/Kg	0.5	3	08/15/08 14:44	aeh
Mercury, total	M7471A CVAA	0.04	B		mg/Kg	0.04	0.2	08/11/08 16:28	jws
Molybdenum, total (3050)	M6010B ICP	234			mg/Kg	1	5	08/15/08 2:50	aeh
Nickel, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/15/08 2:50	aeh
Selenium, total (3050)	M6020 ICP-MS	1.65		*	mg/Kg	0.05	0.3	08/13/08 21:27	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/13/08 21:27	rac
Uranium, total (3050)	M6020 ICP-MS	4.05		*	mg/Kg	0.05	0.3	08/13/08 21:27	rac
Zinc, total (3050)	M6010B ICP	132			mg/Kg	1	5	08/15/08 2:50	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.0		*	%	0.1	0.5	07/31/08 8:37	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:51	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 14:39	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:23	lwt/brd

Arizona license number: AZ0102

Er 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-E24-1-3

ACZ Sample ID: **L70819-14**  
 Date Sampled: 07/29/08 13:21  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.0		*	mg/Kg	0.2	1	08/13/08 21:47	rac
Arsenic, total (3050)	M6020 ICP-MS	7.6			mg/Kg	0.3	0.5	08/13/08 21:47	rac
Barium, total (3050)	M6010B ICP	116		*	mg/Kg	0.3	2	08/15/08 2:54	aeh
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/15/08 14:48	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 2:54	aeh
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/15/08 2:54	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/15/08 2:54	aeh
Copper, total (3050)	M6010B ICP	2470		*	mg/Kg	1	5	08/15/08 2:54	aeh
Lead, total (3050)	M6020 ICP-MS	47.90			mg/Kg	0.05	0.3	08/13/08 21:47	rac
Manganese, total (3050)	M6010B ICP	369		*	mg/Kg	0.5	3	08/15/08 14:48	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:30	jws
Molybdenum, total (3050)	M6010B ICP	362			mg/Kg	1	5	08/15/08 2:54	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/15/08 2:54	aeh
Selenium, total (3050)	M6020 ICP-MS	2.42		*	mg/Kg	0.05	0.3	08/13/08 21:47	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/13/08 21:47	rac
Uranium, total (3050)	M6020 ICP-MS	5.32		*	mg/Kg	0.05	0.3	08/13/08 21:47	rac
Zinc, total (3050)	M6010B ICP	159			mg/Kg	1	5	08/15/08 2:54	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.1		*	%	0.1	0.5	07/31/08 9:18	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:55	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 14:56	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:26	lwt/brd

Arizona license number: AZ0102

EQ 8/27/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-E24-5-7

ACZ Sample ID: L70819-15  
 Date Sampled: 07/29/08 13:27  
 Date Received: 07/30/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/13/08 21:54	rac
Arsenic, total (3050)	M6020 ICP-MS	2.2			mg/Kg	0.3	0.5	08/13/08 21:54	rac
Barium, total (3050)	M6010B ICP	198		*	mg/Kg	0.3	2	08/15/08 3:04	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/15/08 14:51	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/15/08 3:04	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/15/08 3:04	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/15/08 3:04	aeh
Copper, total (3050)	M6010B ICP	364		*	mg/Kg	1	5	08/15/08 3:04	aeh
Lead, total (3050)	M6020 ICP-MS	13.10			mg/Kg	0.05	0.3	08/13/08 21:54	rac
Manganese, total (3050)	M6010B ICP	434		*	mg/Kg	0.5	3	08/15/08 14:51	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 16:32	jws
Molybdenum, total (3050)	M6010B ICP	57			mg/Kg	1	5	08/15/08 3:04	aeh
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/15/08 3:04	aeh
Selenium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	08/13/08 21:54	rac
Thallium, total (3050)	M6020 ICP-MS	0.38		*	mg/Kg	0.05	0.3	08/13/08 21:54	rac
Uranium, total (3050)	M6020 ICP-MS	4.07		*	mg/Kg	0.05	0.3	08/13/08 21:54	rac
Zinc, total (3050)	M6010B ICP	68			mg/Kg	1	5	08/15/08 3:04	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.4		*	%	0.1	0.5	07/31/08 10:00	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				07/30/08 23:59	brd
Digestion - Hot Plate	M3050B ICP-MS			*				08/11/08 15:13	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/05/08 13:30	lwt/brd

Arizona license number: AZ0102

EE 8/27/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70909

Sampling Event: July 23<sup>rd</sup> & 28<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 6 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EM-H22-0-1	SA	L70909-01	S	X <sup>m</sup>
EM-H22-1-3	SA	L70909-02	S	X
EM-H22-5-7	SA	L70909-03	S	X
EM-K24-0-1	SA	L70909-04	S	X
EM-K24-1-3	SA	L70909-05	S	X
EM-K24-5-7	SA	L70909-06	S	X

Matrix: S = Soil                      QC Type: SA = Sample                      m = Matrix spike and/ or matrix spike duplicate.

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 4.1°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD EM-H22-0-1 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>• LD EM-H22-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample EM-H22-0-1 could not be evaluated for copper, molybdenum, and zinc because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Cobalt	MB	1 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Lead	MB	0.064 mg/Kg	

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
EM-H22-0-1	Barium	<b>41.9/ 47.7</b> (75-125)	As the potential bias was considered to be low, the barium result for sample EM-H22-0-1 was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-H22-0-1

ACZ Sample ID: **L70909-01**  
 Date Sampled: 07/30/08 09:37  
 Date Received: 08/01/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	3.7		*	mg/Kg	0.2	1	08/22/08 11:26	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	11.7			mg/Kg	0.3	0.5	08/28/08 0:53	rac
Barium, total (3050)	M6010B ICP	115		*	mg/Kg	0.3	2	08/21/08 2:52	ear/aeH <b>MZ</b>
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/21/08 2:52	ear/aeH
Cadmium, total (3050)	M6010B ICP	1.6	B		mg/Kg	0.5	2	08/21/08 2:52	ear/aeH
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/21/08 2:52	ear/aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/21/08 2:52	ear/aeH
Copper, total (3050)	M6010B ICP	10000		*	mg/Kg	1	5	08/21/08 2:52	ear/aeH
Lead, total (3050)	M6020 ICP-MS	91.30		*	mg/Kg	0.05	0.3	08/22/08 11:26	erf/rac
Manganese, total (3050)	M6010B ICP	294		*	mg/Kg	0.5	3	08/21/08 2:52	ear/aeH
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/11/08 17:34	jws
Molybdenum, total (3050)	M6010B ICP	821		*	mg/Kg	1	5	08/21/08 2:52	ear/aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 2:52	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	4.53			mg/Kg	0.05	0.3	08/28/08 0:53	rac
Thallium, total (3050)	M6020 ICP-MS	0.42		*	mg/Kg	0.05	0.3	08/22/08 11:26	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.34		*	mg/Kg	0.05	0.3	08/22/08 11:26	erf/rac
Zinc, total (3050)	M6010B ICP	293		*	mg/Kg	1	5	08/21/08 2:52	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.7		*	%	0.1	0.5	08/06/08 22:03	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:20	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 14:11	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 3:00	lwt/mjc

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*ER 9/16/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-H22-1-3

ACZ Sample ID: **L70909-02**

Date Sampled: 07/30/08 09:37

Date Received: 08/01/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/22/08 11:32	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.7			mg/Kg	0.3	0.5	08/28/08 1:07	rac
Barium, total (3050)	M6010B ICP	70.4		*	mg/Kg	0.3	2	08/21/08 3:14	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/21/08 3:14	ear/aeH
Cadmium, total (3050)	M6010B ICP	1.0	B		mg/Kg	0.5	2	08/21/08 3:14	ear/aeH
Chromium, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/21/08 3:14	ear/aeH
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/21/08 3:14	ear/aeH
Copper, total (3050)	M6010B ICP	2330		*	mg/Kg	1	5	08/21/08 3:14	ear/aeH
Lead, total (3050)	M6020 ICP-MS	15.00		*	mg/Kg	0.05	0.3	08/22/08 11:32	erf/rac
Manganese, total (3050)	M6010B ICP	188		*	mg/Kg	0.5	3	08/21/08 3:14	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:36	jws
Molybdenum, total (3050)	M6010B ICP	118		*	mg/Kg	1	5	08/21/08 3:14	ear/aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 3:14	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	1.07			mg/Kg	0.05	0.3	08/28/08 1:07	rac
Thallium, total (3050)	M6020 ICP-MS	0.24	B	*	mg/Kg	0.05	0.3	08/22/08 11:32	erf/rac
Uranium, total (3050)	M6020 ICP-MS	2.30		*	mg/Kg	0.05	0.3	08/22/08 11:32	erf/rac
Zinc, total (3050)	M6010B ICP	181		*	mg/Kg	1	5	08/21/08 3:14	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	08/07/08 0:09	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:26	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 15:22	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 4:50	lwt/mjc

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ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-H22-5-7

ACZ Sample ID: **L70909-03**  
 Date Sampled: 07/31/08 11:55  
 Date Received: 08/01/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 11:39	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	1.1			mg/Kg	0.3	0.5	08/28/08 1:13	rac
Barium, total (3050)	M6010B ICP	199		*	mg/Kg	0.3	2	08/21/08 3:18	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/21/08 3:18	ear/aeH
Cadmium, total (3050)	M6010B ICP	1.7	B		mg/Kg	0.5	2	08/21/08 3:18	ear/aeH
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/21/08 3:18	ear/aeH
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/21/08 3:18	ear/aeH
Copper, total (3050)	M6010B ICP	1740		*	mg/Kg	1	5	08/21/08 3:18	ear/aeH
Lead, total (3050)	M6020 ICP-MS	3.75		*	mg/Kg	0.05	0.3	08/22/08 11:39	erf/rac
Manganese, total (3050)	M6010B ICP	594		*	mg/Kg	0.5	3	08/21/08 3:18	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:38	jws
Molybdenum, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/21/08 3:18	ear/aeH
Nickel, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/21/08 3:18	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.06	B		mg/Kg	0.05	0.3	08/28/08 1:13	rac
Thallium, total (3050)	M6020 ICP-MS	0.51		*	mg/Kg	0.05	0.3	08/22/08 11:39	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.75		*	mg/Kg	0.05	0.3	08/22/08 11:39	erf/rac
Zinc, total (3050)	M6010B ICP	464		*	mg/Kg	1	5	08/21/08 3:18	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.8		*	%	0.1	0.5	08/07/08 1:12	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:32	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 15:46	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 6:40	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-K24-0-1

ACZ Sample ID: **L70909-04**  
 Date Sampled: 07/31/08 13:40  
 Date Received: 08/01/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 11:45	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.0			mg/Kg	0.3	0.5	08/28/08 1:33	rac
Barium, total (3050)	M6010B ICP	78.7		*	mg/Kg	0.3	2	08/21/08 3:21	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/21/08 3:21	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/21/08 3:21	ear/aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/21/08 3:21	ear/aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 3:21	ear/aeH
Copper, total (3050)	M6010B ICP	629		*	mg/Kg	1	5	08/21/08 3:21	ear/aeH
Lead, total (3050)	M6020 ICP-MS	15.90		*	mg/Kg	0.05	0.3	08/22/08 11:45	erf/rac
Manganese, total (3050)	M6010B ICP	175		*	mg/Kg	0.5	3	08/21/08 3:21	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:41	jws
Molybdenum, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	08/21/08 3:21	ear/aeH
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 3:21	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.52			mg/Kg	0.05	0.3	08/28/08 1:33	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/22/08 11:45	erf/rac
Uranium, total (3050)	M6020 ICP-MS	2.50		*	mg/Kg	0.05	0.3	08/22/08 11:45	erf/rac
Zinc, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	08/21/08 3:21	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	08/07/08 2:15	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:38	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 16:10	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 8:30	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-K24-1-3

ACZ Sample ID: **L70909-05**  
 Date Sampled: 07/31/08 13:40  
 Date Received: 08/01/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/22/08 12:04	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	2.5			mg/Kg	0.3	0.5	08/28/08 1:40	rac
Barium, total (3050)	M6010B ICP	79.4		*	mg/Kg	0.3	2	08/21/08 3:25	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 3:25	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/21/08 3:25	ear/aeH
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/21/08 3:25	ear/aeH
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/21/08 3:25	ear/aeH
Copper, total (3050)	M6010B ICP	530		*	mg/Kg	1	5	08/21/08 3:25	ear/aeH
Lead, total (3050)	M6020 ICP-MS	13.10		*	mg/Kg	0.05	0.3	08/22/08 12:04	erf/rac
Manganese, total (3050)	M6010B ICP	124		*	mg/Kg	0.5	3	08/21/08 3:25	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:43	jws
Molybdenum, total (3050)	M6010B ICP	19		*	mg/Kg	1	5	08/21/08 3:25	ear/aeH
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 3:25	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	08/28/08 1:40	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/22/08 12:04	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.16		*	mg/Kg	0.05	0.3	08/22/08 12:04	erf/rac
Zinc, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	08/21/08 3:25	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.4		*	%	0.1	0.5	08/07/08 3:18	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:44	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 16:33	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 10:20	lwt/mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-K24-5-7

ACZ Sample ID: **L70909-06**  
 Date Sampled: 07/31/08 13:58  
 Date Received: 08/01/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 12:11	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	2.4			mg/Kg	0.3	0.5	08/28/08 1:46	rac
Barium, total (3050)	M6010B ICP	152		*	mg/Kg	0.3	2	08/21/08 3:28	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 3:28	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/21/08 3:28	ear/aeH
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/21/08 3:28	ear/aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 3:28	ear/aeH
Copper, total (3050)	M6010B ICP	486		*	mg/Kg	1	5	08/21/08 3:28	ear/aeH
Lead, total (3050)	M6020 ICP-MS	12.30		*	mg/Kg	0.05	0.3	08/22/08 12:11	erf/rac
Manganese, total (3050)	M6010B ICP	241		*	mg/Kg	0.5	3	08/21/08 3:28	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:45	jws
Molybdenum, total (3050)	M6010B ICP	24		*	mg/Kg	1	5	08/21/08 3:28	ear/aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 3:28	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.27	B		mg/Kg	0.05	0.3	08/28/08 1:46	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	08/22/08 12:11	erf/rac
Uranium, total (3050)	M6020 ICP-MS	2.89		*	mg/Kg	0.05	0.3	08/22/08 12:11	erf/rac
Zinc, total (3050)	M6010B ICP	45		*	mg/Kg	1	5	08/21/08 3:28	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.8		*	%	0.1	0.5	08/07/08 4:22	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:50	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 16:57	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 12:10	lwt/mjc

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ER 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70948

Sampling Event: August 1<sup>st</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 11/19/08

Peer Reviewer: Geoff Webb

Date Completed: 11/20/08

This report summarizes the verification of analytical data for 12 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EM-JS-01-0-1	SA	L70948-01	S	X
EM-JS-01-1-3	SA	L70948-02	S	X
EM-JS-02-0-1	SA	L70948-03	S	X
EM-JS-02-1-3	SA	L70948-04	S	X
EM-M26-0-1	SA	L70948-05	S	X
EM-M26-1-3	SA	L70948-06	S	X
EM-M26-5-7	SA	L70948-07	S	X
C-JS-01-0-1	SA	L70948-08	S	X
C-JS-01-1-3	SA	L70948-09	S	X <sup>m</sup>
C-JS-02-0-1	SA	L70948-10	S	X
C-JS-02-1-3	SA	L70948-11	S	X
C-JS-02-5-7	SA	L70948-12	S	X <sup>m</sup>

Matrix: S = Soil                      QC Type: SA = Sample  
X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 3.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1 below, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD C-JS-02-5-7 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>• LD C-JS-01-1-3 (Mercury)</li> <li>• None</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Method QC <ul style="list-style-type: none"> <li>• Internal Standards</li> </ul>		
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	Yes	

**Table 1: Method Blank Outliers and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Cobalt (WG250314)	MB	1 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Lead (WG250322)	MB	0.064 mg/Kg	
Thallium (WG250322)	MB	0.133 mg/Kg	As the blank contamination was reported at a concentration >2.2x the analyte MDL, the associated thallium results were flagged with B4.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

B4 = Target analyte detected in the blank at or above the method acceptance criteria.

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
C-JS-02-5-7	Total Antimony	<b>39.4/ 31.5</b> (75-125)	<b>22.22</b> (20)	As the potential bias was considered to be low, the total antimony and total lead result for the associated parent sample was flagged with a M2. As the total antimony and total lead RPDs were not within acceptance limits, the total antimony and total lead results were also flagged with an R8.
	Total Lead (WG250322)	120.9/ <b>68.7</b> (75-125)	<b>21.91</b> (20)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: EM-JS-01-0-1

ACZ Sample ID: **L70948-01**  
 Date Sampled: 08/01/08 09:43  
 Date Received: 08/05/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/22/08 12:17	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	4.3			mg/Kg	0.3	0.5	08/28/08 1:53	rac
Barium, total (3050)	M6010B ICP	103		*	mg/Kg	0.3	2	08/21/08 3:32	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 3:32	ear/aeH
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/21/08 3:32	ear/aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/21/08 3:32	ear/aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 3:32	ear/aeH
Copper, total (3050)	M6010B ICP	840		*	mg/Kg	1	5	08/21/08 3:32	ear/aeH
Lead, total (3050)	M6020 ICP-MS	24.00		*	mg/Kg	0.05	0.3	08/22/08 12:17	erf/rac
Manganese, total (3050)	M6010B ICP	238		*	mg/Kg	0.5	3	08/21/08 3:32	ear/aeH
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 17:47	jws
Molybdenum, total (3050)	M6010B ICP	143		*	mg/Kg	1	5	08/21/08 3:32	ear/aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 3:32	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.46			mg/Kg	0.05	0.3	08/28/08 1:53	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/22/08 12:17	erf/rac
Uranium, total (3050)	M6020 ICP-MS	2.90		*	mg/Kg	0.05	0.3	08/22/08 12:17	erf/rac
Zinc, total (3050)	M6010B ICP	88		*	mg/Kg	1	5	08/21/08 3:32	ear/aeH

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.5		*	%	0.1	0.5	08/07/08 5:25	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 20:55	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 17:21	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 14:00	lwt/mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-01-1-3

ACZ Sample ID: **L70948-02**  
 Date Sampled: 08/01/08 09:43  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 12:30	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.1			mg/Kg	0.3	0.5	08/29/08 1:47	rac
Barium, total (3050)	M6010B ICP	228		*	mg/Kg	0.3	2	08/21/08 3:36	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/21/08 3:36	ear/aeh
Cadmium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.5	2	08/21/08 3:36	ear/aeh
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/21/08 3:36	ear/aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/21/08 3:36	ear/aeh
Copper, total (3050)	M6010B ICP	543		*	mg/Kg	1	5	08/21/08 3:36	ear/aeh
Lead, total (3050)	M6020 ICP-MS	9.80		*	mg/Kg	0.05	0.3	08/22/08 12:30	erf/rac
Manganese, total (3050)	M6010B ICP	388		*	mg/Kg	0.5	3	08/21/08 3:36	ear/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 17:49	jws
Molybdenum, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 3:36	ear/aeh
Nickel, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/21/08 3:36	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	08/29/08 1:47	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/22/08 12:30	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.64		*	mg/Kg	0.05	0.3	08/22/08 12:30	erf/rac
Zinc, total (3050)	M6010B ICP	187		*	mg/Kg	1	5	08/21/08 3:36	ear/aeh

B4

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.2		*	%	0.1	0.5	08/07/08 6:28	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:01	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 17:45	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 15:50	lwt/mjc

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EE 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-02-0-1

ACZ Sample ID: **L70948-03**  
 Date Sampled: 08/01/08 09:17  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/22/08 12:36	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	5.1			mg/Kg	0.3	0.5	08/28/08 2:06	rac
Barium, total (3050)	M6010B ICP	115		*	mg/Kg	0.3	2	08/21/08 3:39	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 3:39	ear/aeh
Cadmium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.5	2	08/21/08 3:39	ear/aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/21/08 3:39	ear/aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/21/08 3:39	ear/aeh
Copper, total (3050)	M6010B ICP	2160		*	mg/Kg	1	5	08/21/08 3:39	ear/aeh
Lead, total (3050)	M6020 ICP-MS	187		*	mg/Kg	0.05	0.3	08/22/08 12:36	erf/rac
Manganese, total (3050)	M6010B ICP	566		*	mg/Kg	0.5	3	08/21/08 3:39	ear/aeh
Mercury, total	M7471A CVAA	0.11	B		mg/Kg	0.04	0.2	08/11/08 17:51	jws
Molybdenum, total (3050)	M6010B ICP	382		*	mg/Kg	1	5	08/21/08 3:39	ear/aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/21/08 3:39	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.55			mg/Kg	0.05	0.3	08/28/08 2:06	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/22/08 12:36	erf/rac
Uranium, total (3050)	M6020 ICP-MS	6.85		*	mg/Kg	0.05	0.3	08/22/08 12:36	erf/rac
Zinc, total (3050)	M6010B ICP	531		*	mg/Kg	1	5	08/21/08 3:39	ear/aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.2		*	%	0.1	0.5	08/07/08 7:31	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:07	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 18:08	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 17:40	lwt/mjc

Arizona license number: AZ0102

ER 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: EM-JS-02-1-3

ACZ Sample ID: **L70948-04**  
 Date Sampled: 08/01/08 09:17  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 12:43	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	08/28/08 2:12	rac
Barium, total (3050)	M6010B ICP	89.6		*	mg/Kg	0.3	2	08/21/08 3:43	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/21/08 3:43	ear/aeH
Cadmium, total (3050)	M6010B ICP	1.5	B		mg/Kg	0.5	2	08/21/08 3:43	ear/aeH
Chromium, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/21/08 3:43	ear/aeH
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 3:43	ear/aeH
Copper, total (3050)	M6010B ICP	722		*	mg/Kg	1	5	08/21/08 3:43	ear/aeH
Lead, total (3050)	M6020 ICP-MS	576		*	mg/Kg	0.2	1	09/02/08 19:02	msh
Manganese, total (3050)	M6010B ICP	684		*	mg/Kg	0.5	3	08/21/08 3:43	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.03	0.2	08/11/08 17:58	jws
Molybdenum, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 3:43	ear/aeH
Nickel, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/21/08 3:43	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.23	B		mg/Kg	0.05	0.3	08/28/08 2:12	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	08/22/08 12:43	erf/rac
Uranium, total (3050)	M6020 ICP-MS	10.20		*	mg/Kg	0.05	0.3	08/22/08 12:43	erf/rac
Zinc, total (3050)	M6010B ICP	640		*	mg/Kg	1	5	08/21/08 3:43	ear/aeH

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.4		*	%	0.1	0.5	08/07/08 8:34	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:13	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 18:32	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 19:30	lwt/mjc

Arizona license number: AZ0102

Er 11/19/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: EM-M26-0-1

ACZ Sample ID: L70948-05  
 Date Sampled: 08/01/08 09:56  
 Date Received: 08/05/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 12:49	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	2.6			mg/Kg	0.3	0.5	08/28/08 2:19	rac
Barium, total (3050)	M6010B ICP	126		*	mg/Kg	0.3	2	08/21/08 3:47	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/21/08 3:47	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/21/08 3:47	ear/aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/21/08 3:47	ear/aeH
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/21/08 3:47	ear/aeH
Copper, total (3050)	M6010B ICP	358		*	mg/Kg	1	5	08/21/08 3:47	ear/aeH
Lead, total (3050)	M6020 ICP-MS	21.90		*	mg/Kg	0.05	0.3	08/22/08 12:49	erf/rac
Manganese, total (3050)	M6010B ICP	146		*	mg/Kg	0.5	3	08/21/08 3:47	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 18:01	jws
Molybdenum, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	08/21/08 3:47	ear/aeH
Nickel, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/21/08 3:47	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.35			mg/Kg	0.05	0.3	08/28/08 2:19	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/22/08 12:49	erf/rac 84
Uranium, total (3050)	M6020 ICP-MS	3.13		*	mg/Kg	0.05	0.3	08/22/08 12:49	erf/rac
Zinc, total (3050)	M6010B ICP	57		*	mg/Kg	1	5	08/21/08 3:47	ear/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.3		*	%	0.1	0.5	08/07/08 9:37	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:19	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 18:56	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 21:20	lwt/mjc

Arizona license number: AZ0102

EQ 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-M26-1-3

ACZ Sample ID: **L70948-06**  
 Date Sampled: 08/01/08 09:56  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/22/08 12:55	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.7			mg/Kg	0.3	0.5	08/28/08 2:26	rac
Barium, total (3050)	M6010B ICP	48.4		*	mg/Kg	0.3	2	08/21/08 3:58	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/21/08 3:58	ear/aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/21/08 3:58	ear/aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/21/08 3:58	ear/aeh
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/21/08 3:58	ear/aeh
Copper, total (3050)	M6010B ICP	469		*	mg/Kg	1	5	08/21/08 3:58	ear/aeh
Lead, total (3050)	M6020 ICP-MS	20.30		*	mg/Kg	0.05	0.3	08/22/08 12:55	erf/rac
Manganese, total (3050)	M6010B ICP	109		*	mg/Kg	0.5	3	08/21/08 3:58	ear/aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 18:03	jws
Molybdenum, total (3050)	M6010B ICP	23		*	mg/Kg	1	5	08/21/08 3:58	ear/aeh
Nickel, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/21/08 3:58	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.28	B		mg/Kg	0.05	0.3	08/28/08 2:26	rac
Thallium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	08/22/08 12:55	erf/rac <b>B4</b>
Uranium, total (3050)	M6020 ICP-MS	5.30		*	mg/Kg	0.05	0.3	08/22/08 12:55	erf/rac
Zinc, total (3050)	M6010B ICP	97		*	mg/Kg	1	5	08/21/08 3:58	ear/aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.0		*	%	0.1	0.5	08/07/08 10:40	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:25	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 19:20	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/09/08 23:10	lwt/mjc

Arizona license number: AZ0102

ER 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-M26-5-7

ACZ Sample ID: **L70948-07**  
 Date Sampled: 08/01/08 10:06  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/22/08 13:01	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	4.6			mg/Kg	0.3	0.5	08/28/08 2:32	rac
Barium, total (3050)	M6010B ICP	67.5		*	mg/Kg	0.3	2	08/21/08 4:01	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 4:01	ear/aeh
Cadmium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.5	2	08/21/08 4:01	ear/aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/21/08 4:01	ear/aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 4:01	ear/aeh
Copper, total (3050)	M6010B ICP	536		*	mg/Kg	1	5	08/21/08 4:01	ear/aeh
Lead, total (3050)	M6020 ICP-MS	19.50		*	mg/Kg	0.05	0.3	08/22/08 13:01	erf/rac
Manganese, total (3050)	M6010B ICP	144		*	mg/Kg	0.5	3	08/21/08 4:01	ear/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/11/08 18:05	jws
Molybdenum, total (3050)	M6010B ICP	44		*	mg/Kg	1	5	08/21/08 4:01	ear/aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 4:01	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.16	B		mg/Kg	0.05	0.3	08/28/08 2:32	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/22/08 13:01	erf/rac
Uranium, total (3050)	M6020 ICP-MS	5.57		*	mg/Kg	0.05	0.3	08/22/08 13:01	erf/rac
Zinc, total (3050)	M6010B ICP	142		*	mg/Kg	1	5	08/21/08 4:01	ear/aeh

B4

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.9		*	%	0.1	0.5	08/07/08 11:44	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:30	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 19:43	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 1:00	lwt/mjc

Arizona license number: AZ0102

ER 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-01-0-1

ACZ Sample ID: **L70948-08**

Date Sampled: 08/01/08 12:39  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/22/08 13:21	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	5.3			mg/Kg	0.3	0.5	08/28/08 2:52	rac
Barium, total (3050)	M6010B ICP	79.2		*	mg/Kg	0.3	2	08/21/08 4:05	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 4:05	ear/aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/21/08 4:05	ear/aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/21/08 4:05	ear/aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 4:05	ear/aeh
Copper, total (3050)	M6010B ICP	677		*	mg/Kg	1	5	08/21/08 4:05	ear/aeh
Lead, total (3050)	M6020 ICP-MS	56.60		*	mg/Kg	0.05	0.3	08/22/08 13:21	erf/rac
Manganese, total (3050)	M6010B ICP	338		*	mg/Kg	0.5	3	08/21/08 4:05	ear/aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/11/08 18:07	jws
Molybdenum, total (3050)	M6010B ICP	135		*	mg/Kg	1	5	08/21/08 4:05	ear/aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 4:05	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.33			mg/Kg	0.05	0.3	08/28/08 2:52	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 2:52	rac
Uranium, total (3050)	M6020 ICP-MS	3.39		*	mg/Kg	0.05	0.3	08/22/08 13:21	erf/rac
Zinc, total (3050)	M6010B ICP	149		*	mg/Kg	1	5	08/21/08 4:05	ear/aeh

B4

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	08/07/08 12:47	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:36	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 20:07	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 2:50	lwt/mjc

Arizona license number: AZ0102

EE 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: C-JS-01-1-3

ACZ Sample ID: **L70948-09**  
 Date Sampled: 08/01/08 12:39  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/22/08 13:27	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	4.5			mg/Kg	0.3	0.5	08/28/08 2:58	rac
Barium, total (3050)	M6010B ICP	136		*	mg/Kg	0.3	2	08/21/08 4:09	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 4:09	ear/aeH
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	08/21/08 4:09	ear/aeH
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/21/08 4:09	ear/aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/21/08 4:09	ear/aeH
Copper, total (3050)	M6010B ICP	763		*	mg/Kg	1	5	08/21/08 4:09	ear/aeH
Lead, total (3050)	M6020 ICP-MS	46.30		*	mg/Kg	0.05	0.3	08/22/08 13:27	erf/rac
Manganese, total (3050)	M6010B ICP	329		*	mg/Kg	0.5	3	08/21/08 4:09	ear/aeH
Mercury, total	M7471A CVAA	0.04	B		mg/Kg	0.04	0.2	08/16/08 15:59	jws
Molybdenum, total (3050)	M6010B ICP	194		*	mg/Kg	1	5	08/21/08 4:09	ear/aeH
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 4:09	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.40			mg/Kg	0.05	0.3	08/28/08 2:58	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/28/08 2:58	rac 64
Uranium, total (3050)	M6020 ICP-MS	4.10		*	mg/Kg	0.05	0.3	08/22/08 13:27	erf/rac
Zinc, total (3050)	M6010B ICP	188		*	mg/Kg	1	5	08/21/08 4:09	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.5		*	%	0.1	0.5	08/07/08 13:50	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:42	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 20:31	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 4:40	lwt/mjc

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-02-0-1

ACZ Sample ID: **L70948-10**  
 Date Sampled: 08/01/08 12:56  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/22/08 13:33	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	08/28/08 3:05	rac
Barium, total (3050)	M6010B ICP	116		*	mg/Kg	0.3	2	08/21/08 4:12	ear/aeh
Beryllium, total (3050)	M6010B ICP	1.3			mg/Kg	0.2	1	08/21/08 4:12	ear/aeh
Cadmium, total (3050)	M6010B ICP	1.7	B		mg/Kg	0.5	2	08/21/08 4:12	ear/aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/21/08 4:12	ear/aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/21/08 4:12	ear/aeh
Copper, total (3050)	M6010B ICP	794		*	mg/Kg	1	5	08/21/08 4:12	ear/aeh
Lead, total (3050)	M6020 ICP-MS	30.50		*	mg/Kg	0.05	0.3	08/22/08 13:33	erf/rac
Manganese, total (3050)	M6010B ICP	551		*	mg/Kg	0.5	3	08/21/08 4:12	ear/aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	08/16/08 16:05	jws
Molybdenum, total (3050)	M6010B ICP	99		*	mg/Kg	1	5	08/21/08 4:12	ear/aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/21/08 4:12	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.39			mg/Kg	0.05	0.3	08/28/08 3:05	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 3:05	rac B4
Uranium, total (3050)	M6020 ICP-MS	4.64		*	mg/Kg	0.05	0.3	08/22/08 13:33	erf/rac
Zinc, total (3050)	M6010B ICP	362		*	mg/Kg	1	5	08/21/08 4:12	ear/aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.9		*	%	0.1	0.5	08/07/08 14:53	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:48	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 20:55	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 6:30	lwt/mjc

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Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-02-1-3

ACZ Sample ID: **L70948-11**  
 Date Sampled: 08/01/08 12:56  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 13:40	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	1.8			mg/Kg	0.3	0.5	08/28/08 3:12	rac
Barium, total (3050)	M6010B ICP	64.9		*	mg/Kg	0.3	2	08/21/08 4:16	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/21/08 4:16	ear/aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/21/08 4:16	ear/aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/21/08 4:16	ear/aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/21/08 4:16	ear/aeh
Copper, total (3050)	M6010B ICP	399		*	mg/Kg	1	5	08/21/08 4:16	ear/aeh
Lead, total (3050)	M6020 ICP-MS	10.00		*	mg/Kg	0.05	0.3	08/22/08 13:40	erf/rac
Manganese, total (3050)	M6010B ICP	170		*	mg/Kg	0.5	3	08/21/08 4:16	ear/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:07	jws
Molybdenum, total (3050)	M6010B ICP	18		*	mg/Kg	1	5	08/21/08 4:16	ear/aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/21/08 4:16	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.18	B		mg/Kg	0.05	0.3	08/28/08 3:12	rac
Thallium, total (3050)	M6020 ICP-MS	0.12	B	*	mg/Kg	0.05	0.3	08/28/08 3:12	rac 84
Uranium, total (3050)	M6020 ICP-MS	4.34		*	mg/Kg	0.05	0.3	08/22/08 13:40	erf/rac
Zinc, total (3050)	M6010B ICP	180		*	mg/Kg	1	5	08/21/08 4:16	ear/aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	08/07/08 15:56	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 21:54	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 21:18	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 8:20	lwt/mjc

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EE 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-02-5-7

ACZ Sample ID: **L70948-12**  
 Date Sampled: 08/01/08 13:02  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/22/08 13:46	erf/rac <b>M2, R8</b>
Arsenic, total (3050)	M6020 ICP-MS	1.6			mg/Kg	0.3	0.5	08/28/08 3:18	rac
Barium, total (3050)	M6010B ICP	143		*	mg/Kg	0.3	2	08/21/08 4:19	ear/aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 4:19	ear/aeh
Cadmium, total (3050)	M6010B ICP	1.0	B		mg/Kg	0.5	2	08/21/08 4:19	ear/aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/21/08 4:19	ear/aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/21/08 4:19	ear/aeh
Copper, total (3050)	M6010B ICP	442		*	mg/Kg	1	5	08/21/08 4:19	ear/aeh
Lead, total (3050)	M6020 ICP-MS	37.30		*	mg/Kg	0.05	0.3	08/22/08 13:46	erf/rac <b>M2, R8</b>
Manganese, total (3050)	M6010B ICP	373		*	mg/Kg	0.5	3	08/21/08 4:19	ear/aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:09	jws
Molybdenum, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/21/08 4:19	ear/aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/21/08 4:19	ear/aeh
Selenium, total (3050)	M6020 ICP-MS	0.07	B		mg/Kg	0.05	0.3	08/28/08 3:18	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 3:18	rac <b>B4</b>
Uranium, total (3050)	M6020 ICP-MS	9.38		*	mg/Kg	0.05	0.3	08/22/08 13:46	erf/rac
Zinc, total (3050)	M6010B ICP	1070		*	mg/Kg	1	5	08/21/08 4:19	ear/aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.9		*	%	0.1	0.5	08/07/08 16:59	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:00	brd
Digestion - Hot Plate	M3050B ICP-MS							08/12/08 21:42	mjc/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 10:10	lwt/mjc

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ER 11/19/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L70949

Sampling Event: August 4<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 13 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
C-JS-03-0-1	SA	L70949-01	S	X
C-JS-03-1-3	SA	L70949-02	S	X
C-JS-03-5-7	SA	L70949-03	S	X
C-JS-03-10-12	SA	L70949-04	S	X
C-JS-03-15-17	SA	L70949-05	S	X
CS-JS-01-0-1	SA	L70949-06	S	X
CS-JS-01-1-3	SA	L70949-07	S	X
CS-JS-01-5-7	SA	L70949-08	S	X
CS-JS-01-10-12	SA	L70949-09	S	X
CS-JS-02-0-1	SA	L70949-10	S	X
CS-JS-02-1-3	SA	L70949-11	S	X
CS-JS-02-5-7	SA	L70949-12	S	X
CS-JS-02-10-11	SA	L70949-13	S	X <sup>m</sup>

Matrix: S = Soil                      QC Type: SA = Sample                      m = Matrix spike and/ or matrix spike duplicate.

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 2.3°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD CS-JS-02-10-11 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>• LD C-JS-03-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample CS-JS-02-10-11 could not be evaluated for lead because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Arsenic	MB	0.43 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Lead	MB	0.091 mg/Kg	
Selenium	MB	0.115 mg/Kg	As the blank contamination was reported at a concentration >2.2x the analyte MDL, the associated selenium results were flagged with B4.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

B4 = Target analyte detected in blank at or above method acceptance criteria.

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
CS-JS-02-10-11	Antimony	<b>42.5/ 41.2</b> (75-125)	2.47 (20)	As the potential bias was considered to be low, the antimony result for sample CS-JS-02-10-11 was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-0-1

ACZ Sample ID: **L70949-01**  
 Date Sampled: 08/04/08 10:25  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/15/08 16:19	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	6.6		*	mg/Kg	0.3	0.5	08/15/08 16:19	erf/msh
Barium, total (3050)	M6010B ICP	82.5		*	mg/Kg	0.3	2	08/20/08 0:48	aeH
Beryllium, total (3050)	M6010B ICP	1.4			mg/Kg	0.2	1	08/21/08 1:03	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 0:48	aeH
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/20/08 0:48	aeH
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/20/08 0:48	aeH
Copper, total (3050)	M6010B ICP	1020			mg/Kg	1	5	08/20/08 0:48	aeH
Lead, total (3050)	M6020 ICP-MS	74.80		*	mg/Kg	0.05	0.3	08/15/08 16:19	erf/msh
Manganese, total (3050)	M6010B ICP	573		*	mg/Kg	0.5	3	08/20/08 0:48	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:12	jws
Molybdenum, total (3050)	M6010B ICP	199			mg/Kg	1	5	08/20/08 0:48	aeH
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/20/08 0:48	aeH
Selenium, total (3050)	M6020 ICP-MS	0.69			mg/Kg	0.05	0.3	08/15/08 16:19	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	08/15/08 16:19	erf/msh
Uranium, total (3050)	M6020 ICP-MS	6.11		*	mg/Kg	0.05	0.3	08/15/08 16:19	erf/msh
Zinc, total (3050)	M6010B ICP	256		*	mg/Kg	1	5	08/20/08 0:48	aeH

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Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.1		*	%	0.1	0.5	08/06/08 23:23	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:00	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 13:36	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 12:00	lwt/mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-1-3

ACZ Sample ID: **L70949-02**  
 Date Sampled: 08/04/08 10:31  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 16:26	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.3		*	mg/Kg	0.3	0.5	08/15/08 16:26	erf/msh
Barium, total (3050)	M6010B ICP	136		*	mg/Kg	0.3	2	08/20/08 0:51	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 1:07	aeh
Cadmium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.5	2	08/20/08 0:51	aeh
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 0:51	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 0:51	aeh
Copper, total (3050)	M6010B ICP	485			mg/Kg	1	5	08/20/08 0:51	aeh
Lead, total (3050)	M6020 ICP-MS	53.20		*	mg/Kg	0.05	0.3	08/15/08 16:26	erf/msh
Manganese, total (3050)	M6010B ICP	351		*	mg/Kg	0.5	3	08/20/08 0:51	aeh
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/16/08 16:19	jws
Molybdenum, total (3050)	M6010B ICP	37			mg/Kg	1	5	08/20/08 0:51	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/20/08 0:51	aeh
Selenium, total (3050)	M6020 ICP-MS	0.29	B		mg/Kg	0.05	0.3	08/15/08 16:26	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/15/08 16:26	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.70		*	mg/Kg	0.05	0.3	08/15/08 16:26	erf/msh
Zinc, total (3050)	M6010B ICP	442		*	mg/Kg	1	5	08/20/08 0:51	aeh

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.7		*	%	0.1	0.5	08/07/08 2:10	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:05	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 13:52	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 13:50	lwt/mjc

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ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-5-7

ACZ Sample ID: **L70949-03**  
 Date Sampled: 08/04/08 10:34  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 16:33	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.7		*	mg/Kg	0.3	0.5	08/15/08 16:33	erf/msh
Barium, total (3050)	M6010B ICP	88.1		*	mg/Kg	0.3	2	08/20/08 0:54	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 1:11	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 0:54	aeH
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/20/08 0:54	aeH
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 0:54	aeH
Copper, total (3050)	M6010B ICP	371			mg/Kg	1	5	08/20/08 0:54	aeH
Lead, total (3050)	M6020 ICP-MS	45.90		*	mg/Kg	0.05	0.3	08/15/08 16:33	erf/msh
Manganese, total (3050)	M6010B ICP	256		*	mg/Kg	0.5	3	08/20/08 0:54	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:21	jws
Molybdenum, total (3050)	M6010B ICP	18			mg/Kg	1	5	08/20/08 0:54	aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/20/08 0:54	aeH
Selenium, total (3050)	M6020 ICP-MS	0.23	B		mg/Kg	0.05	0.3	08/15/08 16:33	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	08/15/08 16:33	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.15		*	mg/Kg	0.05	0.3	08/15/08 16:33	erf/msh
Zinc, total (3050)	M6010B ICP	255		*	mg/Kg	1	5	08/20/08 0:54	aeH

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.0		*	%	0.1	0.5	08/07/08 3:34	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:10	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 14:07	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 15:40	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-10-12

ACZ Sample ID: **L70949-04**  
 Date Sampled: 08/04/08 10:43  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 16:39	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	0.5	08/15/08 16:39	erf/msh
Barium, total (3050)	M6010B ICP	85.8		*	mg/Kg	0.3	2	08/20/08 0:58	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 1:14	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 0:58	aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 0:58	aeH
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/20/08 0:58	aeH
Copper, total (3050)	M6010B ICP	365			mg/Kg	1	5	08/20/08 0:58	aeH
Lead, total (3050)	M6020 ICP-MS	89.30		*	mg/Kg	0.05	0.3	08/15/08 16:39	erf/msh
Manganese, total (3050)	M6010B ICP	211		*	mg/Kg	0.5	3	08/20/08 0:58	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:23	jws
Molybdenum, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/20/08 0:58	aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/20/08 0:58	aeH
Selenium, total (3050)	M6020 ICP-MS	0.41			mg/Kg	0.05	0.3	08/15/08 16:39	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/15/08 16:39	erf/msh
Uranium, total (3050)	M6020 ICP-MS	13.00		*	mg/Kg	0.05	0.3	08/15/08 16:39	erf/msh
Zinc, total (3050)	M6010B ICP	178		*	mg/Kg	1	5	08/20/08 0:58	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.0		*	%	0.1	0.5	08/07/08 4:57	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:15	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 14:23	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 17:30	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-15-17

ACZ Sample ID: **L70949-05**  
 Date Sampled: 08/04/08 11:03  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 16:46	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.8		*	mg/Kg	0.3	0.5	08/15/08 16:46	erf/msh
Barium, total (3050)	M6010B ICP	95.6		*	mg/Kg	0.3	2	08/20/08 1:01	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/21/08 1:18	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:01	aeh
Chromium, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/20/08 1:01	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 1:01	aeh
Copper, total (3050)	M6010B ICP	442			mg/Kg	1	5	08/20/08 1:01	aeh
Lead, total (3050)	M6020 ICP-MS	66.60		*	mg/Kg	0.05	0.3	08/15/08 16:46	erf/msh
Manganese, total (3050)	M6010B ICP	270		*	mg/Kg	0.5	3	08/20/08 1:01	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:26	jws
Molybdenum, total (3050)	M6010B ICP	14			mg/Kg	1	5	08/20/08 1:01	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/20/08 1:01	aeh
Selenium, total (3050)	M6020 ICP-MS	0.42			mg/Kg	0.05	0.3	08/15/08 16:46	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	08/15/08 16:46	erf/msh
Uranium, total (3050)	M6020 ICP-MS	15.30		*	mg/Kg	0.05	0.3	08/15/08 16:46	erf/msh
Zinc, total (3050)	M6010B ICP	207		*	mg/Kg	1	5	08/20/08 1:01	aeh

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	81.9		*	%	0.1	0.5	08/07/08 6:21	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:20	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 14:39	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 19:20	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CS-JS-01-0-1

ACZ Sample ID: **L70949-06**  
 Date Sampled: 08/04/08 11:38  
 Date Received: 08/05/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/15/08 16:53	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	8.7		*	mg/Kg	0.3	0.5	08/15/08 16:53	erf/msh
Barium, total (3050)	M6010B ICP	82.3		*	mg/Kg	0.3	2	08/20/08 1:05	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 1:29	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:05	aeH
Chromium, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/20/08 1:05	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 1:05	aeH
Copper, total (3050)	M6010B ICP	423			mg/Kg	1	5	08/20/08 1:05	aeH
Lead, total (3050)	M6020 ICP-MS	65.10		*	mg/Kg	0.05	0.3	08/15/08 16:53	erf/msh
Manganese, total (3050)	M6010B ICP	386		*	mg/Kg	0.5	3	08/20/08 1:05	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:28	jws
Molybdenum, total (3050)	M6010B ICP	142			mg/Kg	1	5	08/20/08 1:05	aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/20/08 1:05	aeH
Selenium, total (3050)	M6020 ICP-MS	0.62			mg/Kg	0.05	0.3	08/15/08 16:53	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/15/08 16:53	erf/msh
Uranium, total (3050)	M6020 ICP-MS	3.67		*	mg/Kg	0.05	0.3	08/15/08 16:53	erf/msh
Zinc, total (3050)	M6010B ICP	124		*	mg/Kg	1	5	08/20/08 1:05	aeH

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.3		*	%	0.1	0.5	08/07/08 7:44	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:25	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 14:54	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 21:10	lwt/mjc

Arizona license number: AZ0102

Er 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CS-JS-01-1-3

ACZ Sample ID: **L70949-07**  
 Date Sampled: 08/04/08 11:38  
 Date Received: 08/05/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 17:00	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	0.5	08/15/08 17:00	erf/msh
Barium, total (3050)	M6010B ICP	121		*	mg/Kg	0.3	2	08/20/08 1:08	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 1:32	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:08	aeh
Chromium, total (3050)	M6010B ICP	37		*	mg/Kg	1	5	08/20/08 1:08	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 1:08	aeh
Copper, total (3050)	M6010B ICP	432			mg/Kg	1	5	08/20/08 1:08	aeh
Lead, total (3050)	M6020 ICP-MS	90.50		*	mg/Kg	0.05	0.3	08/15/08 17:00	erf/msh
Manganese, total (3050)	M6010B ICP	546		*	mg/Kg	0.5	3	08/20/08 1:08	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:30	jws
Molybdenum, total (3050)	M6010B ICP	54			mg/Kg	1	5	08/20/08 1:08	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/20/08 1:08	aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/15/08 17:00	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	08/15/08 17:00	erf/msh
Uranium, total (3050)	M6020 ICP-MS	4.66		*	mg/Kg	0.05	0.3	08/15/08 17:00	erf/msh
Zinc, total (3050)	M6010B ICP	172		*	mg/Kg	1	5	08/20/08 1:08	aeh

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.5		*	%	0.1	0.5	08/07/08 9:08	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:30	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 15:10	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/10/08 23:00	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-01-5-7

ACZ Sample ID: **L70949-08**  
 Date Sampled: 08/04/08 11:44  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/15/08 17:07	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.6		*	mg/Kg	0.3	0.5	08/15/08 17:07	erf/msh
Barium, total (3050)	M6010B ICP	146		*	mg/Kg	0.3	2	08/20/08 1:12	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 1:36	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:12	aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/20/08 1:12	aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/20/08 1:12	aeH
Copper, total (3050)	M6010B ICP	602			mg/Kg	1	5	08/20/08 1:12	aeH
Lead, total (3050)	M6020 ICP-MS	343		*	mg/Kg	0.1	0.5	08/22/08 10:04	erf/rac
Manganese, total (3050)	M6010B ICP	486		*	mg/Kg	0.5	3	08/20/08 1:12	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:33	jws
Molybdenum, total (3050)	M6010B ICP	134			mg/Kg	1	5	08/20/08 1:12	aeH
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/20/08 1:12	aeH
Selenium, total (3050)	M6020 ICP-MS	0.48			mg/Kg	0.05	0.3	08/15/08 17:07	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	08/15/08 17:07	erf/msh
Uranium, total (3050)	M6020 ICP-MS	6.09		*	mg/Kg	0.05	0.3	08/15/08 17:07	erf/msh
Zinc, total (3050)	M6010B ICP	302		*	mg/Kg	1	5	08/20/08 1:12	aeH

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Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.0		*	%	0.1	0.5	08/07/08 10:32	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:35	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 15:25	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 0:50	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-01-10-12

ACZ Sample ID: **L70949-09**  
 Date Sampled: 08/04/08 13:30  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.0	B	*	mg/Kg	0.2	1	08/15/08 17:15	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	5.8		*	mg/Kg	0.3	0.5	08/15/08 17:15	erf/msh
Barium, total (3050)	M6010B ICP	123		*	mg/Kg	0.3	2	08/20/08 1:22	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 1:40	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:22	aeH
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/20/08 1:22	aeH
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/20/08 1:22	aeH
Copper, total (3050)	M6010B ICP	4580			mg/Kg	1	5	08/20/08 1:22	aeH
Lead, total (3050)	M6020 ICP-MS	47.90		*	mg/Kg	0.05	0.3	08/15/08 17:15	erf/msh
Manganese, total (3050)	M6010B ICP	392		*	mg/Kg	0.5	3	08/20/08 1:22	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:35	jws
Molybdenum, total (3050)	M6010B ICP	735			mg/Kg	1	5	08/20/08 1:22	aeH
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/20/08 1:22	aeH
Selenium, total (3050)	M6020 ICP-MS	3.37			mg/Kg	0.05	0.3	08/15/08 17:15	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/15/08 17:15	erf/msh
Uranium, total (3050)	M6020 ICP-MS	6.90		*	mg/Kg	0.05	0.3	08/15/08 17:15	erf/msh
Zinc, total (3050)	M6010B ICP	150		*	mg/Kg	1	5	08/20/08 1:22	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	77.9		*	%	0.1	0.5	08/07/08 11:55	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:40	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 15:41	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 2:40	lwt/mjc

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-02-0-1

ACZ Sample ID: **L70949-10**  
 Date Sampled: 08/04/08 14:06  
 Date Received: 08/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/15/08 17:36	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	4.0		*	mg/Kg	0.3	0.5	08/15/08 17:36	erf/msh
Barium, total (3050)	M6010B ICP	157		*	mg/Kg	0.3	2	08/20/08 1:25	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 1:43	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:25	aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 1:25	aeH
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/20/08 1:25	aeH
Copper, total (3050)	M6010B ICP	640			mg/Kg	1	5	08/20/08 1:25	aeH
Lead, total (3050)	M6020 ICP-MS	126		*	mg/Kg	0.05	0.3	08/15/08 17:36	erf/msh
Manganese, total (3050)	M6010B ICP	348		*	mg/Kg	0.5	3	08/20/08 1:25	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:37	jws
Molybdenum, total (3050)	M6010B ICP	81			mg/Kg	1	5	08/20/08 1:25	aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/20/08 1:25	aeH
Selenium, total (3050)	M6020 ICP-MS	0.41			mg/Kg	0.05	0.3	08/15/08 17:36	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	08/22/08 10:10	erf/trac
Uranium, total (3050)	M6020 ICP-MS	3.77		*	mg/Kg	0.05	0.3	08/15/08 17:36	erf/msh
Zinc, total (3050)	M6010B ICP	218		*	mg/Kg	1	5	08/20/08 1:25	aeH

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Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	08/07/08 13:19	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:45	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 15:57	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 4:30	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-02-1-3

ACZ Sample ID: **L70949-11**  
 Date Sampled: 08/04/08 14:06  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/15/08 17:43	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	3.3		*	mg/Kg	0.3	0.5	08/15/08 17:43	erf/msh
Barium, total (3050)	M6010B ICP	85.6		*	mg/Kg	0.3	2	08/20/08 1:29	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/21/08 1:47	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:29	aeH
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 1:29	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 1:29	aeH
Copper, total (3050)	M6010B ICP	448			mg/Kg	1	5	08/20/08 1:29	aeH
Lead, total (3050)	M6020 ICP-MS	25.70		*	mg/Kg	0.05	0.3	08/15/08 17:43	erf/msh
Manganese, total (3050)	M6010B ICP	269		*	mg/Kg	0.5	3	08/20/08 1:29	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:40	jws
Molybdenum, total (3050)	M6010B ICP	28			mg/Kg	1	5	08/20/08 1:29	aeH
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/20/08 1:29	aeH
Selenium, total (3050)	M6020 ICP-MS	0.32			mg/Kg	0.05	0.3	08/15/08 17:43	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/22/08 10:16	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.28		*	mg/Kg	0.05	0.3	08/15/08 17:43	erf/msh
Zinc, total (3050)	M6010B ICP	269		*	mg/Kg	1	5	08/20/08 1:29	aeH

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.8		*	%	0.1	0.5	08/07/08 14:42	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:50	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 16:12	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 6:20	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-02-5-7

ACZ Sample ID: **L70949-12**  
 Date Sampled: 08/04/08 14:15  
 Date Received: 08/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/15/08 17:50	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	0.5	08/15/08 17:50	erf/msh
Barium, total (3050)	M6010B ICP	366		*	mg/Kg	0.3	2	08/20/08 1:32	aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/21/08 1:50	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 1:32	aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/20/08 1:32	aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/20/08 1:32	aeH
Copper, total (3050)	M6010B ICP	131			mg/Kg	1	5	08/20/08 1:32	aeH
Lead, total (3050)	M6020 ICP-MS	20.30		*	mg/Kg	0.05	0.3	08/15/08 17:50	erf/msh
Manganese, total (3050)	M6010B ICP	430		*	mg/Kg	0.5	3	08/20/08 1:32	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:46	jws
Molybdenum, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/20/08 1:32	aeH
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/20/08 1:32	aeH
Selenium, total (3050)	M6020 ICP-MS	0.19	B		mg/Kg	0.05	0.3	08/15/08 17:50	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.38		*	mg/Kg	0.05	0.3	08/22/08 10:29	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.00		*	mg/Kg	0.05	0.3	08/15/08 17:50	erf/msh
Zinc, total (3050)	M6010B ICP	1140		*	mg/Kg	1	5	08/20/08 1:32	aeH

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.8		*	%	0.1	0.5	08/07/08 16:06	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 22:55	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 16:28	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 8:10	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CS-JS-02-10-11

ACZ Sample ID: **L70949-13**  
 Date Sampled: 08/04/08 14:33  
 Date Received: 08/05/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.7	B	*	mg/Kg	0.2	1	08/15/08 17:57	erf/msh
Arsenic, total (3050)	M6020 ICP-MS	5.3		*	mg/Kg	0.3	0.5	08/15/08 17:57	erf/msh
Barium, total (3050)	M6010B ICP	138		*	mg/Kg	0.3	2	08/20/08 1:36	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/21/08 1:54	aeh
Cadmium, total (3050)	M6010B ICP	8.3			mg/Kg	0.5	2	08/20/08 1:36	aeh
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/20/08 1:36	aeh
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/20/08 1:36	aeh
Copper, total (3050)	M6010B ICP	448			mg/Kg	1	5	08/20/08 1:36	aeh
Lead, total (3050)	M6020 ICP-MS	376		*	mg/Kg	0.1	0.5	08/22/08 10:48	erf/rac
Manganese, total (3050)	M6010B ICP	717		*	mg/Kg	0.5	3	08/20/08 1:36	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:49	jws
Molybdenum, total (3050)	M6010B ICP	15			mg/Kg	1	5	08/20/08 1:36	aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/20/08 1:36	aeh
Selenium, total (3050)	M6020 ICP-MS	0.24	B		mg/Kg	0.05	0.3	08/15/08 17:57	erf/msh
Thallium, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.1	0.5	08/22/08 10:48	erf/rac
Uranium, total (3050)	M6020 ICP-MS	7.77		*	mg/Kg	0.05	0.3	08/15/08 17:57	erf/msh
Zinc, total (3050)	M6010B ICP	3630		*	mg/Kg	1	5	08/20/08 1:36	aeh

MZ

B4

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	08/07/08 17:29	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/06/08 23:00	brd
Digestion - Hot Plate	M3050B ICP-MS							08/11/08 16:43	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/11/08 10:00	lwt/mjc

Arizona license number: AZ0102

ER 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71009

Sampling Event: August 5<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/02/08

Peer Reviewer: Geoff Webb

Date Completed: 09/02/08

This report summarizes the verification of analytical data for 11 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
C-JS-03-0-1	SA	L71009-01	S	X
C-JS-03-1-3	SA	L71009-02	S	X
C-JS-03-5-7	SA	L71009-03	S	X
C-JS-03-10-12	SA	L71009-04	S	X
C-JS-04-0-1	SA	L71009-05	S	X
C-JS-04-1-3	SA	L71009-06	S	X
C-JS-04-5-7	SA	L71009-07	S	X
C-JS-04-10-12	SA	L71009-08	S	X
C-JS-04-15-16	SA	L71009-09	S	X
C-JS-05-0-1	SA	L71009-10	S	X
C-JS-05-1-3	SA	L71009-11	S	X

Matrix: S = Soil

QC Type: SA = Sample

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 4.7°C upon arrival at the laboratory, which met the criterion of $\leq 6^{\circ}\text{C}$ . Qualification of data was not required.  The results are reported on a dry weight basis, but the RLs and MDLs are not corrected for percent solids.
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD C-JS-05-0-1 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>C-JS-05-1-3 (Barium, Beryllium, Cadmium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>LD C-JS-03-0-1 (Percent Solids)</li> </ul>	No	With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.  The MS/MSD recoveries for samples CP-JS-05-0-1 and C-JS-05-1-3 could not be evaluated for lead and copper, respectively, because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.  The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.
Method QC <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	No	<b>Internal Standards</b>  All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Beryllium (Work Group WG250412)	MB	0.24 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
	ICB	0.0028 mg/L	
Cobalt (Work Group WG250412)	MB	1.1 mg/Kg	

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

ICB – Initial Calibration Blank

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
C-JS-05-0-1	Antimony	<b>32.7/ 38.4</b> (75-125)	As the potential bias was considered to be low, the antimony result for sample C-JS-05-0-1 was flagged with a M2.
C-JS-05-1-3	Barium	<b>138.8/ 128.1</b> (75-125)	As the potential bias was considered to be high, the listed analytical results for sample C-JS-05-1-3 were flagged with a M1.
	Manganese	<b>158/ 133.6</b> (75-125)	
	Zinc	<b>187/ 174.4</b> (75-125)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-0-1

ACZ Sample ID: **L71009-01**  
 Date Sampled: 08/05/08 08:13  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/26/08 6:46	rac
Arsenic, total (3050)	M6020 ICP-MS	3.8			mg/Kg	0.3	0.5	08/26/08 6:46	rac
Barium, total (3050)	M6010B ICP	95.4		*	mg/Kg	0.3	2	08/22/08 2:45	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/22/08 2:45	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 2:45	aeH
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/22/08 2:45	aeH
Cobalt, total (3050)	M6010B ICP	17			mg/Kg	1	5	08/22/08 2:45	aeH
Copper, total (3050)	M6010B ICP	562		*	mg/Kg	1	5	08/22/08 2:45	aeH
Lead, total (3050)	M6020 ICP-MS	57.20		*	mg/Kg	0.05	0.3	08/26/08 6:46	rac
Manganese, total (3050)	M6010B ICP	279		*	mg/Kg	0.5	3	08/22/08 2:45	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 14:52	jws
Molybdenum, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/22/08 2:45	aeH
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/22/08 2:45	aeH
Selenium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/27/08 0:16	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	08/26/08 6:46	rac
Uranium, total (3050)	M6020 ICP-MS	11.00		*	mg/Kg	0.05	0.3	08/26/08 6:46	rac
Zinc, total (3050)	M6010B ICP	129		*	mg/Kg	1	5	08/22/08 2:45	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	08/11/08 16:57	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:39	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 17:41	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:00	brd

Arizona license number: AZ0102

ER 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-1-3

ACZ Sample ID: **L71009-02**  
 Date Sampled: 08/05/08 08:13  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/26/08 6:52	rac
Arsenic, total (3050)	M6020 ICP-MS	3.5			mg/Kg	0.3	0.5	08/26/08 6:52	rac
Barium, total (3050)	M6010B ICP	123		*	mg/Kg	0.3	2	08/22/08 2:49	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/22/08 2:49	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 2:49	aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/22/08 2:49	aeh
Cobalt, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/22/08 2:49	aeh
Copper, total (3050)	M6010B ICP	802		*	mg/Kg	1	5	08/22/08 2:49	aeh
Lead, total (3050)	M6020 ICP-MS	48.80		*	mg/Kg	0.05	0.3	08/26/08 6:52	rac
Manganese, total (3050)	M6010B ICP	273		*	mg/Kg	0.5	3	08/22/08 2:49	aeh
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/16/08 14:54	jws
Molybdenum, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	08/22/08 2:49	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/22/08 2:49	aeh
Selenium, total (3050)	M6020 ICP-MS	0.37		*	mg/Kg	0.05	0.3	08/27/08 0:23	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	08/26/08 6:52	rac
Uranium, total (3050)	M6020 ICP-MS	3.24		*	mg/Kg	0.05	0.3	08/26/08 6:52	rac
Zinc, total (3050)	M6010B ICP	154		*	mg/Kg	1	5	08/22/08 2:49	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	08/11/08 20:11	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:42	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:00	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:02	brd

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-5-7

ACZ Sample ID: **L71009-03**  
 Date Sampled: 08/05/08 08:19  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/26/08 6:59	rac
Arsenic, total (3050)	M6020 ICP-MS	2.9			mg/Kg	0.3	0.5	08/26/08 6:59	rac
Barium, total (3050)	M6010B ICP	142		*	mg/Kg	0.3	2	08/22/08 2:52	aeH
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/22/08 2:52	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 2:52	aeH
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	08/22/08 2:52	aeH
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/22/08 2:52	aeH
Copper, total (3050)	M6010B ICP	770		*	mg/Kg	1	5	08/22/08 2:52	aeH
Lead, total (3050)	M6020 ICP-MS	88.70		*	mg/Kg	0.05	0.3	08/26/08 6:59	rac
Manganese, total (3050)	M6010B ICP	478		*	mg/Kg	0.5	3	08/22/08 2:52	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 14:57	jws
Molybdenum, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	08/22/08 2:52	aeH
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/22/08 2:52	aeH
Selenium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	08/27/08 0:29	rac
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	08/26/08 6:59	rac
Uranium, total (3050)	M6020 ICP-MS	3.01		*	mg/Kg	0.05	0.3	08/26/08 6:59	rac
Zinc, total (3050)	M6010B ICP	217		*	mg/Kg	1	5	08/22/08 2:52	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.0		*	%	0.1	0.5	08/11/08 21:48	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:45	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:18	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:05	brd

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-03-10-12

ACZ Sample ID: **L71009-04**  
 Date Sampled: 08/05/08 08:28  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/26/08 7:06	rac
Arsenic, total (3050)	M6020 ICP-MS	3.3			mg/Kg	0.3	0.5	08/26/08 7:06	rac
Barium, total (3050)	M6010B ICP	201		*	mg/Kg	0.3	2	08/22/08 2:56	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/22/08 2:56	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 2:56	aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/22/08 2:56	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/22/08 2:56	aeh
Copper, total (3050)	M6010B ICP	641		*	mg/Kg	1	5	08/22/08 2:56	aeh
Lead, total (3050)	M6020 ICP-MS	71.40		*	mg/Kg	0.05	0.3	08/26/08 7:06	rac
Manganese, total (3050)	M6010B ICP	371		*	mg/Kg	0.5	3	08/22/08 2:56	aeh
Mercury, total	M7471A CVA	0.04	B		mg/Kg	0.04	0.2	08/16/08 14:59	jws
Molybdenum, total (3050)	M6010B ICP	98		*	mg/Kg	1	5	08/22/08 2:56	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/22/08 2:56	aeh
Selenium, total (3050)	M6020 ICP-MS	0.34		*	mg/Kg	0.05	0.3	08/27/08 0:36	rac
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/26/08 7:06	rac
Uranium, total (3050)	M6020 ICP-MS	3.00		*	mg/Kg	0.05	0.3	08/26/08 7:06	rac
Zinc, total (3050)	M6010B ICP	456		*	mg/Kg	1	5	08/22/08 2:56	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.4		*	%	0.1	0.5	08/11/08 23:25	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:48	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:37	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:08	brd

Arizona license number: AZ0102

ER 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-04-0-1

ACZ Sample ID: **L71009-05**  
 Date Sampled: 08/05/08 09:25  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 7:12	rac
Arsenic, total (3050)	M6020 ICP-MS	8.9			mg/Kg	0.3	0.5	08/26/08 7:12	rac
Barium, total (3050)	M6010B ICP	73.0		*	mg/Kg	0.3	2	08/22/08 2:59	aeh
Beryllium, total (3050)	M6010B ICP	1.2			mg/Kg	0.2	1	08/22/08 2:59	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 2:59	aeh
Chromium, total (3050)	M6010B ICP	23			mg/Kg	1	5	08/22/08 2:59	aeh
Cobalt, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/22/08 2:59	aeh
Copper, total (3050)	M6010B ICP	671		*	mg/Kg	1	5	08/22/08 2:59	aeh
Lead, total (3050)	M6020 ICP-MS	44.40		*	mg/Kg	0.05	0.3	08/26/08 7:12	rac
Manganese, total (3050)	M6010B ICP	664		*	mg/Kg	0.5	3	08/22/08 2:59	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 15:02	jws
Molybdenum, total (3050)	M6010B ICP	98		*	mg/Kg	1	5	08/22/08 2:59	aeh
Nickel, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/22/08 2:59	aeh
Selenium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	08/27/08 0:55	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/26/08 7:12	rac
Uranium, total (3050)	M6020 ICP-MS	4.05		*	mg/Kg	0.05	0.3	08/26/08 7:12	rac
Zinc, total (3050)	M6010B ICP	245		*	mg/Kg	1	5	08/22/08 2:59	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.7		*	%	0.1	0.5	08/12/08 1:02	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:50	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:55	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:11	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-04-1-3

ACZ Sample ID: **L71009-06**

Date Sampled: 08/05/08 09:25

Date Received: 08/07/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/26/08 7:32	rac
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	08/26/08 7:32	rac
Barium, total (3050)	M6010B ICP	137		*	mg/Kg	0.3	2	08/22/08 3:02	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/22/08 3:02	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 3:02	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/22/08 3:02	aeh
Cobalt, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/22/08 3:02	aeh
Copper, total (3050)	M6010B ICP	491		*	mg/Kg	1	5	08/22/08 3:02	aeh
Lead, total (3050)	M6020 ICP-MS	15.10		*	mg/Kg	0.05	0.3	08/26/08 7:32	rac
Manganese, total (3050)	M6010B ICP	333		*	mg/Kg	0.5	3	08/22/08 3:02	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 15:05	jws
Molybdenum, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	08/22/08 3:02	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/22/08 3:02	aeh
Selenium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	08/27/08 1:02	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/26/08 7:32	rac
Uranium, total (3050)	M6020 ICP-MS	3.28		*	mg/Kg	0.05	0.3	08/26/08 7:32	rac
Zinc, total (3050)	M6010B ICP	45		*	mg/Kg	1	5	08/22/08 3:02	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.4		*	%	0.1	0.5	08/12/08 2:39	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:53	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 19:13	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:14	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-04-5-7

ACZ Sample ID: **L71009-07**  
 Date Sampled: 08/05/08 09:34  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/26/08 7:39	rac
Arsenic, total (3050)	M6020 ICP-MS	2.3			mg/Kg	0.3	0.5	08/26/08 7:39	rac
Barium, total (3050)	M6010B ICP	152		*	mg/Kg	0.3	2	08/22/08 3:06	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/22/08 3:06	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 3:06	aeh
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/22/08 3:06	aeh
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/22/08 3:06	aeh
Copper, total (3050)	M6010B ICP	420		*	mg/Kg	1	5	08/22/08 3:06	aeh
Lead, total (3050)	M6020 ICP-MS	56.10		*	mg/Kg	0.05	0.3	08/26/08 7:39	rac
Manganese, total (3050)	M6010B ICP	388		*	mg/Kg	0.5	3	08/22/08 3:06	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 15:12	jws
Molybdenum, total (3050)	M6010B ICP	38		*	mg/Kg	1	5	08/22/08 3:06	aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/22/08 3:06	aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/27/08 1:08	rac
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/26/08 7:39	rac
Uranium, total (3050)	M6020 ICP-MS	3.23		*	mg/Kg	0.05	0.3	08/26/08 7:39	rac
Zinc, total (3050)	M6010B ICP	106		*	mg/Kg	1	5	08/22/08 3:06	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.3		*	%	0.1	0.5	08/12/08 4:16	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:56	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 19:32	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:17	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-04-10-12

ACZ Sample ID: **L71009-08**  
 Date Sampled: 08/05/08 09:42  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.7	B	*	mg/Kg	0.2	1	08/26/08 7:45	rac
Arsenic, total (3050)	M6020 ICP-MS	4.7			mg/Kg	0.3	0.5	08/26/08 7:45	rac
Barium, total (3050)	M6010B ICP	88.1		*	mg/Kg	0.3	2	08/22/08 3:09	aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/22/08 3:09	aeH
Cadmium, total (3050)	M6010B ICP	2.1			mg/Kg	0.5	2	08/22/08 3:09	aeH
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/22/08 3:09	aeH
Cobalt, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/22/08 3:09	aeH
Copper, total (3050)	M6010B ICP	2780		*	mg/Kg	1	5	08/22/08 3:09	aeH
Lead, total (3050)	M6020 ICP-MS	41.40		*	mg/Kg	0.05	0.3	08/26/08 7:45	rac
Manganese, total (3050)	M6010B ICP	187		*	mg/Kg	0.5	3	08/22/08 3:09	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.05	0.2	08/16/08 15:14	jws
Molybdenum, total (3050)	M6010B ICP	537		*	mg/Kg	1	5	08/22/08 3:09	aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/22/08 3:09	aeH
Selenium, total (3050)	M6020 ICP-MS	2.39		*	mg/Kg	0.05	0.3	08/27/08 1:15	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/26/08 7:45	rac
Uranium, total (3050)	M6020 ICP-MS	7.23		*	mg/Kg	0.05	0.3	08/26/08 7:45	rac
Zinc, total (3050)	M6010B ICP	135		*	mg/Kg	1	5	08/22/08 3:09	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.4		*	%	0.1	0.5	08/12/08 5:53	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 13:59	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 19:50	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:19	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-04-15-16

ACZ Sample ID: **L71009-09**  
 Date Sampled: 08/05/08 10:33  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.7	B	*	mg/Kg	0.2	1	08/26/08 7:52	rac
Arsenic, total (3050)	M6020 ICP-MS	3.9			mg/Kg	0.3	0.5	08/26/08 7:52	rac
Barium, total (3050)	M6010B ICP	103		*	mg/Kg	0.3	2	08/22/08 3:20	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/22/08 3:20	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/22/08 3:20	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/22/08 3:20	aeh
Cobalt, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/22/08 3:20	aeh
Copper, total (3050)	M6010B ICP	1150		*	mg/Kg	1	5	08/22/08 3:20	aeh
Lead, total (3050)	M6020 ICP-MS	54.80		*	mg/Kg	0.05	0.3	08/27/08 1:22	rac
Manganese, total (3050)	M6010B ICP	155		*	mg/Kg	0.5	3	08/22/08 3:20	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 15:16	jws
Molybdenum, total (3050)	M6010B ICP	276		*	mg/Kg	1	5	08/22/08 3:20	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/22/08 3:20	aeh
Selenium, total (3050)	M6020 ICP-MS	1.02		*	mg/Kg	0.05	0.3	08/27/08 1:22	rac
Thallium, total (3050)	M6020 ICP-MS	0.12	B	*	mg/Kg	0.05	0.3	08/26/08 7:52	rac
Uranium, total (3050)	M6020 ICP-MS	4.43		*	mg/Kg	0.05	0.3	08/26/08 7:52	rac
Zinc, total (3050)	M6010B ICP	65		*	mg/Kg	1	5	08/22/08 3:20	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.0		*	%	0.1	0.5	08/12/08 7:30	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:01	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 20:09	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:22	brd

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*Ee 9/2/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-05-0-1

ACZ Sample ID: **L71009-10**  
 Date Sampled: 08/05/08 11:08  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/26/08 7:58	rac
Arsenic, total (3050)	M6020 ICP-MS	4.2			mg/Kg	0.3	0.5	08/26/08 7:58	rac
Barium, total (3050)	M6010B ICP	120		*	mg/Kg	0.3	2	08/22/08 3:23	aeH
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/22/08 3:23	aeH
Cadmium, total (3050)	M6010B ICP	1.2	B		mg/Kg	0.5	2	08/22/08 3:23	aeH
Chromium, total (3050)	M6010B ICP	16			mg/Kg	1	5	08/22/08 3:23	aeH
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/22/08 3:23	aeH
Copper, total (3050)	M6010B ICP	481		*	mg/Kg	1	5	08/22/08 3:23	aeH
Lead, total (3050)	M6020 ICP-MS	477		*	mg/Kg	0.2	1	08/27/08 1:28	rac
Manganese, total (3050)	M6010B ICP	838		*	mg/Kg	0.5	3	08/22/08 3:23	aeH
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/16/08 15:18	jws
Molybdenum, total (3050)	M6010B ICP	74		*	mg/Kg	1	5	08/22/08 3:23	aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/22/08 3:23	aeH
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/27/08 1:28	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/26/08 7:58	rac
Uranium, total (3050)	M6020 ICP-MS	5.66		*	mg/Kg	0.05	0.3	08/26/08 7:58	rac
Zinc, total (3050)	M6010B ICP	315		*	mg/Kg	1	5	08/22/08 3:23	aeH

MZ

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.7		*	%	0.1	0.5	08/12/08 9:07	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:04	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 20:27	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:25	brd

Arizona license number: AZ0102

ER 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: C-JS-05-1-3

ACZ Sample ID: **L71009-11**  
 Date Sampled: 08/05/08 11:08  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/26/08 8:18	rac
Arsenic, total (3050)	M6020 ICP-MS	11.2			mg/Kg	0.3	0.5	08/26/08 8:18	rac
Barium, total (3050)	M6010B ICP	104		*	mg/Kg	0.3	2	08/22/08 3:27	aeh MI
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/22/08 3:27	aeh
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	08/22/08 3:27	aeh
Chromium, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/22/08 3:27	aeh
Cobalt, total (3050)	M6010B ICP	1	B		mg/Kg	1	5	08/22/08 3:27	aeh
Copper, total (3050)	M6010B ICP	185		*	mg/Kg	1	5	08/22/08 3:27	aeh MI EE 9/5/08
Lead, total (3050)	M6020 ICP-MS	3740		*	mg/Kg	1	5	08/27/08 1:48	rac
Manganese, total (3050)	M6010B ICP	78.1		*	mg/Kg	0.5	3	08/22/08 3:27	aeh MI
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/16/08 15:20	jws
Molybdenum, total (3050)	M6010B ICP	18		*	mg/Kg	1	5	08/22/08 3:27	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/22/08 3:27	aeh
Selenium, total (3050)	M6020 ICP-MS		U	*	mg/Kg	1	5	08/27/08 1:48	rac
Thallium, total (3050)	M6020 ICP-MS	0.62		*	mg/Kg	0.05	0.3	08/26/08 8:18	rac
Uranium, total (3050)	M6020 ICP-MS	4.19		*	mg/Kg	0.05	0.3	08/26/08 8:18	rac
Zinc, total (3050)	M6010B ICP	156			mg/Kg	1	5	08/22/08 3:27	aeh MI

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.5		*	%	0.1	0.5	08/12/08 10:45	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:07	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 21:23	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:28	brd

Arizona license number: AZ0102

EE 9/2/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71011

Sampling Event: August 6<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/02/08

Peer Reviewer: Geoff Webb

Date Completed: 09/02/08

This report summarizes the verification of analytical data for 11 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CS-JS-04-0-1	SA	L71011-01	S	X
CS-JS-04-1-3	SA	L71011-02	S	X
CS-JS-04-5-7	SA	L71011-03	S	X
EM-X26-0-1	SA	L71011-04	S	X
EM-X26-1-3	SA	L71011-05	S	X
EM-X26-5-7	SA	L71011-06	S	X
EM-U25-0-1	SA	L71011-07	S	X
EM-U25-1-3	SA	L71011-08	S	X
EM-U25-5-5.5	SA	L71011-09	S	X
EM-N29-0-1	SA	L71011-10	S	X
EM-N29-1-3	SA	L71011-11	S	X

Matrix: S = Soil

QC Type: SA = Sample

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 3.8°C upon arrival at the laboratory, which met the criterion of $\leq 6^{\circ}\text{C}$ . Qualification of data was not required.  The results are reported on a dry weight basis, but the RLs and MDLs are not corrected for percent solids.
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD CS-JS-04-1-3 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium) CS-JS-04-0-1 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc) EM-X26-0-1 (Mercury)</li> <li>LD CP-JS-04-0-1 (Percent Solids)</li> </ul>	No	With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.  The MS/MSD recoveries for sample CP-JS-04-0-1 could not be evaluated for copper, manganese, molybdenum and zinc because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.  The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.
Method QC <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	Yes	<b>Internal Standards</b>  All internal standards were within the laboratory-determined acceptance limits, Data qualification was not required.
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/ LCSD)	Yes	All LCS/LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Total Barium	MB	0.52 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
CS-JS-04-1-3	Antimony	<b>39.4/ 39.8</b> (75-125)	As the potential bias was considered to be low, the antimony result for sample CP-JS-04-1-3 was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-04-0-1

ACZ Sample ID: **L71011-01**  
 Date Sampled: 08/06/08 09:02  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 10:23	rac
Arsenic, total (3050)	M6020 ICP-MS	3.2			mg/Kg	0.3	0.5	08/26/08 10:23	rac
Barium, total (3050)	M6010B ICP	111			mg/Kg	0.3	2	08/20/08 2:28	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/27/08 0:21	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 2:28	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 2:28	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 2:28	aeh
Copper, total (3050)	M6010B ICP	557		*	mg/Kg	1	5	08/20/08 2:28	aeh
Lead, total (3050)	M6020 ICP-MS	131			mg/Kg	0.05	0.3	08/26/08 10:23	rac
Manganese, total (3050)	M6010B ICP	375		*	mg/Kg	0.5	3	08/20/08 2:28	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:52	jws
Molybdenum, total (3050)	M6010B ICP	281		*	mg/Kg	1	5	08/20/08 2:28	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 2:28	aeh
Selenium, total (3050)	M6020 ICP-MS	0.49			mg/Kg	0.05	0.3	08/26/08 10:23	rac
Thallium, total (3050)	M6020 ICP-MS	0.31			mg/Kg	0.05	0.3	08/26/08 10:23	rac
Uranium, total (3050)	M6020 ICP-MS	2.94		*	mg/Kg	0.05	0.3	08/26/08 10:23	rac
Zinc, total (3050)	M6010B ICP	207		*	mg/Kg	1	5	08/20/08 2:28	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.7		*	%	0.1	0.5	08/11/08 17:35	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:10	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 15:24	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:31	brd

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**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: CS-JS-04-1-3

ACZ Sample ID: **L71011-02**  
 Date Sampled: 08/06/08 09:02  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/26/08 10:30	rac
Arsenic, total (3050)	M6020 ICP-MS	4.3			mg/Kg	0.3	0.5	08/26/08 10:30	rac
Barium, total (3050)	M6010B ICP	101			mg/Kg	0.3	2	08/20/08 2:41	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/27/08 0:42	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	08/20/08 2:41	aeh
Chromium, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	08/20/08 2:41	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 2:41	aeh
Copper, total (3050)	M6010B ICP	658		*	mg/Kg	1	5	08/20/08 2:41	aeh
Lead, total (3050)	M6020 ICP-MS	18.20			mg/Kg	0.05	0.3	08/26/08 10:30	rac
Manganese, total (3050)	M6010B ICP	209		*	mg/Kg	0.5	3	08/20/08 2:41	aeh
Mercury, total	M7471A CVA			U	mg/Kg	0.04	0.2	08/16/08 16:54	jws
Molybdenum, total (3050)	M6010B ICP	822		*	mg/Kg	1	5	08/20/08 2:41	aeh
Nickel, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/20/08 2:41	aeh
Selenium, total (3050)	M6020 ICP-MS	0.88			mg/Kg	0.05	0.3	08/26/08 10:30	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B		mg/Kg	0.05	0.3	08/26/08 10:30	rac
Uranium, total (3050)	M6020 ICP-MS	3.42		*	mg/Kg	0.05	0.3	08/26/08 10:30	rac
Zinc, total (3050)	M6010B ICP	76		*	mg/Kg	1	5	08/20/08 2:41	aeh

MZ

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.1		*	%	0.1	0.5	08/11/08 20:45	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:12	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 16:49	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:34	brd

Arizona license number: AZ0102

EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-04-5-7

ACZ Sample ID: **L71011-03**  
 Date Sampled: 08/06/08 09:10  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/26/08 11:03	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6			mg/Kg	0.3	0.5	08/26/08 11:03	rac
Barium, total (3050)	M6010B ICP	216			mg/Kg	0.3	2	08/20/08 2:45	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/27/08 0:46	aeh
Cadmium, total (3050)	M6010B ICP	1.4	B		mg/Kg	0.5	2	08/20/08 2:45	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 2:45	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	08/20/08 2:45	aeh
Copper, total (3050)	M6010B ICP	425		*	mg/Kg	1	5	08/20/08 2:45	aeh
Lead, total (3050)	M6020 ICP-MS	16.30			mg/Kg	0.05	0.3	08/26/08 11:03	rac
Manganese, total (3050)	M6010B ICP	495		*	mg/Kg	0.5	3	08/20/08 2:45	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 16:56	jws
Molybdenum, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 2:45	aeh
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/20/08 2:45	aeh
Selenium, total (3050)	M6020 ICP-MS	0.10	B		mg/Kg	0.05	0.3	08/26/08 11:03	rac
Thallium, total (3050)	M6020 ICP-MS	0.40			mg/Kg	0.05	0.3	08/26/08 11:03	rac
Uranium, total (3050)	M6020 ICP-MS	3.29		*	mg/Kg	0.05	0.3	08/26/08 11:03	rac
Zinc, total (3050)	M6010B ICP	451		*	mg/Kg	1	5	08/20/08 2:45	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.1		*	%	0.1	0.5	08/11/08 22:20	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:15	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:14	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:37	brd

Arizona license number: AZ0102

EL 9/2/08

**FMI Gold & Copper - Sierrita.**

Project ID: OJ07R9  
 Sample ID: EM-X26-0-1

ACZ Sample ID: **L71011-04**  
 Date Sampled: 08/06/08 10:00  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 11:09	rac
Arsenic, total (3050)	M6020 ICP-MS	3.2			mg/Kg	0.3	0.5	08/26/08 11:09	rac
Barium, total (3050)	M6010B ICP	94.8			mg/Kg	0.3	2	08/20/08 2:48	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/27/08 0:50	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 2:48	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 2:48	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/20/08 2:48	aeh
Copper, total (3050)	M6010B ICP	1390		*	mg/Kg	1	5	08/20/08 2:48	aeh
Lead, total (3050)	M6020 ICP-MS	12.80			mg/Kg	0.05	0.3	08/26/08 11:09	rac
Manganese, total (3050)	M6010B ICP	356		*	mg/Kg	0.5	3	08/20/08 2:48	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 17:49	jws
Molybdenum, total (3050)	M6010B ICP	154		*	mg/Kg	1	5	08/20/08 2:48	aeh
Nickel, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/20/08 2:48	aeh
Selenium, total (3050)	M6020 ICP-MS	0.52			mg/Kg	0.05	0.3	08/26/08 11:09	rac
Thallium, total (3050)	M6020 ICP-MS	0.30			mg/Kg	0.05	0.3	08/26/08 11:09	rac
Uranium, total (3050)	M6020 ICP-MS	3.78		*	mg/Kg	0.05	0.3	08/26/08 11:09	rac
Zinc, total (3050)	M6010B ICP	67		*	mg/Kg	1	5	08/20/08 2:48	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.5		*	%	0.1	0.5	08/11/08 23:55	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:18	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 18:42	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:39	brd

Arizona license number: AZ0102

EQ 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-X26-1-3

ACZ Sample ID: **L71011-05**  
 Date Sampled: 08/06/08 10:00  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/26/08 11:16	rac
Arsenic, total (3050)	M6020 ICP-MS	1.7			mg/Kg	0.3	0.5	08/26/08 11:16	rac
Barium, total (3050)	M6010B ICP	52.8			mg/Kg	0.3	2	08/20/08 2:59	aeH
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/27/08 0:53	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 2:59	aeH
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/20/08 2:59	aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 2:59	aeH
Copper, total (3050)	M6010B ICP	424		*	mg/Kg	1	5	08/20/08 2:59	aeH
Lead, total (3050)	M6020 ICP-MS	6.02			mg/Kg	0.05	0.3	08/26/08 11:16	rac
Manganese, total (3050)	M6010B ICP	199		*	mg/Kg	0.5	3	08/20/08 2:59	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 17:56	jws
Molybdenum, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/20/08 2:59	aeH
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/20/08 2:59	aeH
Selenium, total (3050)	M6020 ICP-MS	0.27	B		mg/Kg	0.05	0.3	08/26/08 11:16	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B		mg/Kg	0.05	0.3	08/26/08 11:16	rac
Uranium, total (3050)	M6020 ICP-MS	2.38		*	mg/Kg	0.05	0.3	08/26/08 11:16	rac
Zinc, total (3050)	M6010B ICP	37		*	mg/Kg	1	5	08/20/08 2:59	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	98.0		*	%	0.1	0.5	08/12/08 1:30	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:21	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 19:10	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:42	brd

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ER 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-X26-5-7

ACZ Sample ID: **L71011-06**  
 Date Sampled: 08/06/08 10:06  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	08/26/08 11:23	rac
Arsenic, total (3050)	M6020 ICP-MS	4.5			mg/Kg	0.3	0.5	08/26/08 11:23	rac
Barium, total (3050)	M6010B ICP	101			mg/Kg	0.3	2	08/20/08 3:02	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/27/08 0:57	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 3:02	aeh
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/20/08 3:02	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 3:02	aeh
Copper, total (3050)	M6010B ICP	1030		*	mg/Kg	1	5	08/20/08 3:02	aeh
Lead, total (3050)	M6020 ICP-MS	75.20			mg/Kg	0.05	0.3	08/26/08 11:23	rac
Manganese, total (3050)	M6010B ICP	232		*	mg/Kg	0.5	3	08/20/08 3:02	aeh
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.04	0.2	08/16/08 17:58	jws
Molybdenum, total (3050)	M6010B ICP	307		*	mg/Kg	1	5	08/20/08 3:02	aeh
Nickel, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/20/08 3:02	aeh
Selenium, total (3050)	M6020 ICP-MS	0.63			mg/Kg	0.05	0.3	08/26/08 11:23	rac
Thallium, total (3050)	M6020 ICP-MS	0.24	B		mg/Kg	0.05	0.3	08/26/08 11:23	rac
Uranium, total (3050)	M6020 ICP-MS	5.86		*	mg/Kg	0.05	0.3	08/26/08 11:23	rac
Zinc, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	08/20/08 3:02	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.3		*	%	0.1	0.5	08/12/08 3:05	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:23	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 19:38	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:45	brd

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EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-U25-0-1

ACZ Sample ID: **L71011-07**  
 Date Sampled: 08/06/08 10:59  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 11:29	rac
Arsenic, total (3050)	M6020 ICP-MS	3.2			mg/Kg	0.3	0.5	08/26/08 11:29	rac
Barium, total (3050)	M6010B ICP	265			mg/Kg	0.3	2	08/20/08 3:06	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/27/08 1:01	aeh
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	08/20/08 3:06	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 3:06	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/20/08 3:06	aeh
Copper, total (3050)	M6010B ICP	728		*	mg/Kg	1	5	08/20/08 3:06	aeh
Lead, total (3050)	M6020 ICP-MS	100			mg/Kg	0.05	0.3	08/26/08 11:29	rac
Manganese, total (3050)	M6010B ICP	398		*	mg/Kg	0.5	3	08/20/08 3:06	aeh
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/16/08 18:01	jws
Molybdenum, total (3050)	M6010B ICP	113		*	mg/Kg	1	5	08/20/08 3:06	aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 3:06	aeh
Selenium, total (3050)	M6020 ICP-MS	0.32			mg/Kg	0.05	0.3	08/26/08 11:29	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B		mg/Kg	0.05	0.3	08/26/08 11:29	rac
Uranium, total (3050)	M6020 ICP-MS	3.65		*	mg/Kg	0.05	0.3	08/26/08 11:29	rac
Zinc, total (3050)	M6010B ICP	234		*	mg/Kg	1	5	08/20/08 3:06	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	08/12/08 4:40	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:26	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 20:07	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:48	brd

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EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-U25-1-3

ACZ Sample ID: **L71011-08**  
 Date Sampled: 08/06/08 10:59  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 11:36	rac
Arsenic, total (3050)	M6020 ICP-MS	4.6			mg/Kg	0.3	0.5	08/26/08 11:36	rac
Barium, total (3050)	M6010B ICP	156			mg/Kg	0.3	2	08/20/08 3:09	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/27/08 1:04	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 3:09	aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/20/08 3:09	aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/20/08 3:09	aeH
Copper, total (3050)	M6010B ICP	1210		*	mg/Kg	1	5	08/20/08 3:09	aeH
Lead, total (3050)	M6020 ICP-MS	136			mg/Kg	0.05	0.3	08/26/08 11:36	rac
Manganese, total (3050)	M6010B ICP	366		*	mg/Kg	0.5	3	08/20/08 3:09	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:03	jws
Molybdenum, total (3050)	M6010B ICP	292		*	mg/Kg	1	5	08/20/08 3:09	aeH
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 3:09	aeH
Selenium, total (3050)	M6020 ICP-MS	0.72			mg/Kg	0.05	0.3	08/26/08 11:36	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B		mg/Kg	0.05	0.3	08/26/08 11:36	rac
Uranium, total (3050)	M6020 ICP-MS	3.89		*	mg/Kg	0.05	0.3	08/26/08 11:36	rac
Zinc, total (3050)	M6010B ICP	233		*	mg/Kg	1	5	08/20/08 3:09	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.5		*	%	0.1	0.5	08/12/08 6:15	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:29	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 20:35	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:51	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-U25-5-5.5

ACZ Sample ID: **L71011-09**  
 Date Sampled: 08/06/08 11:03  
 Date Received: 08/07/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/26/08 11:42	rac
Arsenic, total (3050)	M6020 ICP-MS	8.6			mg/Kg	0.3	0.5	08/26/08 11:42	rac
Barium, total (3050)	M6010B ICP	88.7			mg/Kg	0.3	2	08/20/08 3:12	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/27/08 1:08	aeh
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	08/20/08 3:12	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/20/08 3:12	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/20/08 3:12	aeh
Copper, total (3050)	M6010B ICP	204		*	mg/Kg	1	5	08/20/08 3:12	aeh
Lead, total (3050)	M6020 ICP-MS	433		*	mg/Kg	0.1	0.5	08/27/08 2:27	rac
Manganese, total (3050)	M6010B ICP	693		*	mg/Kg	0.5	3	08/20/08 3:12	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/16/08 18:12	jws
Molybdenum, total (3050)	M6010B ICP	57		*	mg/Kg	1	5	08/20/08 3:12	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 3:12	aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	08/26/08 11:42	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	08/26/08 11:42	rac
Uranium, total (3050)	M6020 ICP-MS	14.10		*	mg/Kg	0.05	0.3	08/26/08 11:42	rac
Zinc, total (3050)	M6010B ICP	971		*	mg/Kg	1	5	08/20/08 3:12	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.8		*	%	0.1	0.5	08/12/08 7:50	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:32	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 21:03	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:54	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-N29-0-1

ACZ Sample ID: **L71011-10**  
 Date Sampled: 08/06/08 13:09  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/26/08 11:49	rac
Arsenic, total (3050)	M6020 ICP-MS	5.2			mg/Kg	0.3	0.5	08/26/08 11:49	rac
Barium, total (3050)	M6010B ICP	56.0			mg/Kg	0.3	2	08/20/08 3:16	aeh
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/27/08 1:12	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 3:16	aeh
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/20/08 3:16	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 3:16	aeh
Copper, total (3050)	M6010B ICP	495		*	mg/Kg	1	5	08/20/08 3:16	aeh
Lead, total (3050)	M6020 ICP-MS	25.80			mg/Kg	0.05	0.3	08/26/08 11:49	rac
Manganese, total (3050)	M6010B ICP	194		*	mg/Kg	0.5	3	08/20/08 3:16	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:14	jws
Molybdenum, total (3050)	M6010B ICP	124		*	mg/Kg	1	5	08/20/08 3:16	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/20/08 3:16	aeh
Selenium, total (3050)	M6020 ICP-MS	0.50			mg/Kg	0.05	0.3	08/26/08 11:49	rac
Thallium, total (3050)	M6020 ICP-MS	0.13	B		mg/Kg	0.05	0.3	08/26/08 11:49	rac
Uranium, total (3050)	M6020 ICP-MS	1.96		*	mg/Kg	0.05	0.3	08/26/08 11:49	rac
Zinc, total (3050)	M6010B ICP	78		*	mg/Kg	1	5	08/20/08 3:16	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.8		*	%	0.1	0.5	08/12/08 9:25	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:34	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 21:31	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:57	brd

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EE 9/2/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-N29-1-3

ACZ Sample ID: L71011-11  
 Date Sampled: 08/06/08 13:09  
 Date Received: 08/07/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/26/08 11:56	rac
Arsenic, total (3050)	M6020 ICP-MS	7.5			mg/Kg	0.3	0.5	08/26/08 11:56	rac
Barium, total (3050)	M6010B ICP	65.9			mg/Kg	0.3	2	08/20/08 3:19	aeh
Beryllium, total (3050)	M6010B ICP	1.1			mg/Kg	0.2	1	08/27/08 1:15	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/20/08 3:19	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/20/08 3:19	aeh
Cobalt, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	08/20/08 3:19	aeh
Copper, total (3050)	M6010B ICP	805		*	mg/Kg	1	5	08/20/08 3:19	aeh
Lead, total (3050)	M6020 ICP-MS	41.80			mg/Kg	0.05	0.3	08/26/08 11:56	rac
Manganese, total (3050)	M6010B ICP	429		*	mg/Kg	0.5	3	08/20/08 3:19	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:17	jws
Molybdenum, total (3050)	M6010B ICP	94		*	mg/Kg	1	5	08/20/08 3:19	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/20/08 3:19	aeh
Selenium, total (3050)	M6020 ICP-MS	0.79			mg/Kg	0.05	0.3	08/26/08 11:56	rac
Thallium, total (3050)	M6020 ICP-MS	0.13	B		mg/Kg	0.05	0.3	08/26/08 11:56	rac
Uranium, total (3050)	M6020 ICP-MS	2.70		*	mg/Kg	0.05	0.3	08/26/08 11:56	rac
Zinc, total (3050)	M6010B ICP	59		*	mg/Kg	1	5	08/20/08 3:19	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.3		*	%	0.1	0.5	08/12/08 11:00	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/11/08 14:37	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/14/08 21:59	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/13/08 21:59	brd

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ER 9/2/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71041

Sampling Event: August 7<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/17/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 15 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EM-G27-0-1	SA	L71041-01	S	X <sup>m</sup>
EM-G27-1-3	SA	L71041-02	S	X <sup>m</sup>
RA-JS-04-0-1	SA	L71041-03	S	X
RA-JS-04-1-2.5	SA	L71041-04	S	X
RA-JS-03-0-1	SA	L71041-05	S	X
RA-JS-03-1-3	SA	L71041-06	S	X <sup>m</sup>
RA-JS-05-0-1	SA	L71041-07	S	X
RA-JS-05-1-3	SA	L71041-08	S	X
EM-P24-0-1	SA	L71041-09	S	X
EM-P24-1-3	SA	L71041-10	S	X
EM-P24-10-11	SA	L71041-11	S	X
RA-JS-01-0-1	SA	L71041-12	S	X
RA-JS-01-1-3	SA	L71041-13	S	X
RA-JS-01-5-7	SA	L71041-14	S	X
EM-P24-5-7	SA	L71041-15	S	X

Matrix: S = Soil      QC Type: SA = Sample      m = Matrix spike and/or matrix spike duplicate.

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 2.9°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Data qualification was not required.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD EM-G27-1-3 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>EM-G27-0-1 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>RA-IS-03-1-3 (Mercury)</li> <li>• LD EM-G27-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample EM-G27-0-1 could not be evaluated for copper, manganese, and molybdenum because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	N/A	
<ul style="list-style-type: none"> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A	N/A	
<ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	

Review Parameter	Criteria Met?	Comments
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
EM-G27-1-3	Antimony	<b>36.8/ 36.4</b> (75-125)	As the potential bias was considered to be low, the listed analytical results were flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-G27-0-1

ACZ Sample ID: **L71041-01**  
 Date Sampled: 08/07/08 08:18  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/29/08 2:10	msh
Arsenic, total (3050)	M6020 ICP-MS	3.5		*	mg/Kg	0.3	0.5	08/29/08 2:10	msh
Barium, total (3050)	M6010B ICP	81.2			mg/Kg	0.3	2	08/27/08 4:09	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/27/08 4:09	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:09	ear/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 4:09	ear/aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/27/08 4:09	ear/aeH
Copper, total (3050)	M6010B ICP	2750		*	mg/Kg	1	5	08/27/08 4:09	ear/aeH
Lead, total (3050)	M6020 ICP-MS	30.90		*	mg/Kg	0.05	0.3	08/29/08 2:10	msh
Manganese, total (3050)	M6010B ICP	233		*	mg/Kg	0.5	3	08/27/08 4:09	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:39	jws
Molybdenum, total (3050)	M6010B ICP	403		*	mg/Kg	1	5	08/27/08 4:09	ear/aeH
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/27/08 4:09	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.80		*	mg/Kg	0.05	0.3	08/29/08 2:10	msh
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	08/29/08 2:10	msh
Uranium, total (3050)	M6020 ICP-MS	2.80		*	mg/Kg	0.05	0.3	08/29/08 2:10	msh
Zinc, total (3050)	M6010B ICP	90		*	mg/Kg	1	5	08/27/08 4:09	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.4		*	%	0.1	0.5	08/12/08 19:44	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 18:51	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/21/08 23:34	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/20/08 23:00	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-G27-1-3

ACZ Sample ID: **L71041-02**  
 Date Sampled: 08/07/08 08:18  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 2:23	msh <b>MZ</b>
Arsenic, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.3	0.5	08/29/08 2:23	msh
Barium, total (3050)	M6010B ICP	126			mg/Kg	0.3	2	08/27/08 4:31	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/27/08 4:31	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:31	ear/aeH
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/27/08 4:31	ear/aeH
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	08/27/08 4:31	ear/aeH
Copper, total (3050)	M6010B ICP	933		*	mg/Kg	1	5	08/27/08 4:31	ear/aeH
Lead, total (3050)	M6020 ICP-MS	3.92			mg/Kg	0.05	0.3	09/02/08 19:32	msh
Manganese, total (3050)	M6010B ICP	399		*	mg/Kg	0.5	3	08/27/08 4:31	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:41	jws
Molybdenum, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/27/08 4:31	ear/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/27/08 4:31	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.07	B	*	mg/Kg	0.05	0.3	08/29/08 2:23	msh
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	08/29/08 2:23	msh
Uranium, total (3050)	M6020 ICP-MS	3.70		*	mg/Kg	0.05	0.3	08/29/08 2:23	msh
Zinc, total (3050)	M6010B ICP	57		*	mg/Kg	1	5	08/27/08 4:31	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.1		*	%	0.1	0.5	08/12/08 21:42	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 18:57	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 2:08	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/20/08 23:57	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-04-0-1

ACZ Sample ID: **L71041-03**  
 Date Sampled: 08/07/08 08:40  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 2:55	msh
Arsenic, total (3050)	M6020 ICP-MS	1.4		*	mg/Kg	0.3	0.5	08/29/08 2:55	msh
Barium, total (3050)	M6010B ICP	121			mg/Kg	0.3	2	08/27/08 4:35	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/27/08 4:35	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:35	ear/aeH
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/27/08 4:35	ear/aeH
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 4:35	ear/aeH
Copper, total (3050)	M6010B ICP	201		*	mg/Kg	1	5	08/27/08 4:35	ear/aeH
Lead, total (3050)	M6020 ICP-MS	10.80		*	mg/Kg	0.05	0.3	08/29/08 2:55	msh
Manganese, total (3050)	M6010B ICP	232		*	mg/Kg	0.5	3	08/27/08 4:35	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:43	jws
Molybdenum, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/27/08 4:35	ear/aeH
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/27/08 4:35	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.09	B	*	mg/Kg	0.05	0.3	08/29/08 2:55	msh
Thallium, total (3050)	M6020 ICP-MS	0.34		*	mg/Kg	0.05	0.3	08/29/08 2:55	msh
Uranium, total (3050)	M6020 ICP-MS	2.75		*	mg/Kg	0.05	0.3	08/29/08 2:55	msh
Zinc, total (3050)	M6010B ICP	60		*	mg/Kg	1	5	08/27/08 4:35	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.0		*	%	0.1	0.5	08/12/08 22:41	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:03	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 4:42	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 0:55	brd

Arizona license number: AZ0102

Er 9/17/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: RA-JS-04-1-2.5

ACZ Sample ID: **L71041-04**  
Date Sampled: 08/07/08 08:40  
Date Received: 08/08/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:01	msh
Arsenic, total (3050)	M6020 ICP-MS	1.0		*	mg/Kg	0.3	0.5	08/29/08 3:01	msh
Barium, total (3050)	M6010B ICP	98.9			mg/Kg	0.3	2	08/27/08 4:38	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/27/08 4:38	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:38	ear/aeH
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/27/08 4:38	ear/aeH
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/27/08 4:38	ear/aeH
Copper, total (3050)	M6010B ICP	136		*	mg/Kg	1	5	08/27/08 4:38	ear/aeH
Lead, total (3050)	M6020 ICP-MS	3.00			mg/Kg	0.05	0.3	09/02/08 19:40	msh
Manganese, total (3050)	M6010B ICP	220		*	mg/Kg	0.5	3	08/27/08 4:38	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:45	jws
Molybdenum, total (3050)	M6010B ICP		U	*	mg/Kg	1	5	08/27/08 4:38	ear/aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/27/08 4:38	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.06	B	*	mg/Kg	0.05	0.3	08/29/08 3:01	msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/29/08 3:01	msh
Uranium, total (3050)	M6020 ICP-MS	3.40		*	mg/Kg	0.05	0.3	08/29/08 3:01	msh
Zinc, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/27/08 4:38	ear/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.5		*	%	0.1	0.5	08/12/08 23:40	mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:09	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 5:34	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 1:53	brd

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**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-JS-03-0-1

ACZ Sample ID: **L71041-05**  
 Date Sampled: 08/07/08 09:17  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:07	msh
Arsenic, total (3050)	M6020 ICP-MS	1.7		*	mg/Kg	0.3	0.5	08/29/08 3:07	msh
Barium, total (3050)	M6010B ICP	163			mg/Kg	0.3	2	08/27/08 4:42	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/27/08 4:42	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:42	ear/aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/27/08 4:42	ear/aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/27/08 4:42	ear/aeH
Copper, total (3050)	M6010B ICP	113		*	mg/Kg	1	5	08/27/08 4:42	ear/aeH
Lead, total (3050)	M6020 ICP-MS	4.99		*	mg/Kg	0.05	0.3	08/29/08 3:07	msh
Manganese, total (3050)	M6010B ICP	239		*	mg/Kg	0.5	3	08/27/08 4:42	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 18:48	jws
Molybdenum, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	08/27/08 4:42	ear/aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/27/08 4:42	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	08/29/08 3:07	msh
Thallium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	08/29/08 3:07	msh
Uranium, total (3050)	M6020 ICP-MS	3.70		*	mg/Kg	0.05	0.3	08/29/08 3:07	msh
Zinc, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	08/27/08 4:42	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.6		*	%	0.1	0.5	08/13/08 0:39	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:15	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 6:25	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 2:51	brd

Arizona license number: AZ0102

ER 9/17/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-03-1-3

ACZ Sample ID: **L71041-06**  
 Date Sampled: 08/07/08 09:17  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:14	msh
Arsenic, total (3050)	M6020 ICP-MS	1.1		*	mg/Kg	0.3	0.5	08/29/08 3:14	msh
Barium, total (3050)	M6010B ICP	127			mg/Kg	0.3	2	08/27/08 4:46	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/27/08 4:46	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:46	ear/aeH
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/27/08 4:46	ear/aeH
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 4:46	ear/aeH
Copper, total (3050)	M6010B ICP	62		*	mg/Kg	1	5	08/27/08 4:46	ear/aeH
Lead, total (3050)	M6020 ICP-MS	2.81			mg/Kg	0.05	0.3	09/02/08 19:41	msh
Manganese, total (3050)	M6010B ICP	228		*	mg/Kg	0.5	3	08/27/08 4:46	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:23	jws
Molybdenum, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	08/27/08 4:46	ear/aeH
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/27/08 4:46	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.05	B	*	mg/Kg	0.05	0.3	08/29/08 3:14	msh
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/29/08 3:14	msh
Uranium, total (3050)	M6020 ICP-MS	3.33		*	mg/Kg	0.05	0.3	08/29/08 3:14	msh
Zinc, total (3050)	M6010B ICP	63		*	mg/Kg	1	5	08/27/08 4:46	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.4		*	%	0.1	0.5	08/13/08 1:38	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:21	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 7:17	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 3:49	brd

Arizona license number: AZ0102

ER 9/17/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-JS-05-0-1

ACZ Sample ID: **L71041-07**  
 Date Sampled: 08/07/08 09:46  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/29/08 3:20	msh
Arsenic, total (3050)	M6020 ICP-MS	5.2		*	mg/Kg	0.3	0.5	08/29/08 3:20	msh
Barium, total (3050)	M6010B ICP	52.2			mg/Kg	0.3	2	08/27/08 4:49	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/27/08 4:49	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:49	ear/aeH
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/27/08 4:49	ear/aeH
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/27/08 4:49	ear/aeH
Copper, total (3050)	M6010B ICP	380		*	mg/Kg	1	5	08/27/08 4:49	ear/aeH
Lead, total (3050)	M6020 ICP-MS	24.50		*	mg/Kg	0.05	0.3	08/29/08 3:20	msh
Manganese, total (3050)	M6010B ICP	169		*	mg/Kg	0.5	3	08/27/08 4:49	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:30	jws
Molybdenum, total (3050)	M6010B ICP	157		*	mg/Kg	1	5	08/27/08 4:49	ear/aeH
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/27/08 4:49	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.33		*	mg/Kg	0.05	0.3	08/29/08 3:20	msh
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	08/29/08 3:20	msh
Uranium, total (3050)	M6020 ICP-MS	6.88		*	mg/Kg	0.05	0.3	08/29/08 3:20	msh
Zinc, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	08/27/08 4:49	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	88.2		*	%	0.1	0.5	08/13/08 2:37	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:27	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 8:08	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 4:47	brd

Arizona license number: AZ0102

EQ 9/17/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-JS-05-1-3

ACZ Sample ID: **L71041-08**  
 Date Sampled: 08/07/08 09:46  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/29/08 3:26	msh
Arsenic, total (3050)	M6020 ICP-MS	3.1		*	mg/Kg	0.3	0.5	08/29/08 3:26	msh
Barium, total (3050)	M6010B ICP	53.5			mg/Kg	0.3	2	08/27/08 4:53	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/27/08 4:53	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:53	ear/aeH
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/27/08 4:53	ear/aeH
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/27/08 4:53	ear/aeH
Copper, total (3050)	M6010B ICP	284		*	mg/Kg	1	5	08/27/08 4:53	ear/aeH
Lead, total (3050)	M6020 ICP-MS	8.63		*	mg/Kg	0.05	0.3	08/29/08 3:26	msh
Manganese, total (3050)	M6010B ICP	210		*	mg/Kg	0.5	3	08/27/08 4:53	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:32	jws
Molybdenum, total (3050)	M6010B ICP	25		*	mg/Kg	1	5	08/27/08 4:53	ear/aeH
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	08/27/08 4:53	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	08/29/08 3:26	msh
Thallium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	08/29/08 3:26	msh
Uranium, total (3050)	M6020 ICP-MS	8.31		*	mg/Kg	0.05	0.3	08/29/08 3:26	msh
Zinc, total (3050)	M6010B ICP	87		*	mg/Kg	1	5	08/27/08 4:53	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.2		*	%	0.1	0.5	08/13/08 3:36	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:33	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 9:00	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 5:44	brd

Arizona license number: AZ0102

ER 9/17/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-P24-0-1

ACZ Sample ID: **L71041-09**  
 Date Sampled: 08/07/08 10:30  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:33	msh
Arsenic, total (3050)	M6020 ICP-MS	2.3		*	mg/Kg	0.3	0.5	08/29/08 3:33	msh
Barium, total (3050)	M6010B ICP	104			mg/Kg	0.3	2	08/27/08 4:57	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/27/08 4:57	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 4:57	ear/aeH
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/27/08 4:57	ear/aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/27/08 4:57	ear/aeH
Copper, total (3050)	M6010B ICP	719		*	mg/Kg	1	5	08/27/08 4:57	ear/aeH
Lead, total (3050)	M6020 ICP-MS	15.00		*	mg/Kg	0.05	0.3	08/29/08 3:33	msh
Manganese, total (3050)	M6010B ICP	379		*	mg/Kg	0.5	3	08/27/08 4:57	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:34	jws
Molybdenum, total (3050)	M6010B ICP	60		*	mg/Kg	1	5	08/27/08 4:57	ear/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/27/08 4:57	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	08/29/08 3:33	msh
Thallium, total (3050)	M6020 ICP-MS	0.24	B	*	mg/Kg	0.05	0.3	08/29/08 3:33	msh
Uranium, total (3050)	M6020 ICP-MS	4.54		*	mg/Kg	0.05	0.3	08/29/08 3:33	msh
Zinc, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	08/27/08 4:57	ear/aeH

**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	08/13/08 4:35	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:39	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 9:51	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 6:42	brd

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ER 9/17/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-P24-1-3

ACZ Sample ID: **L71041-10**  
 Date Sampled: 08/07/08 10:30  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:39	msh
Arsenic, total (3050)	M6020 ICP-MS	2.6		*	mg/Kg	0.3	0.5	08/29/08 3:39	msh
Barium, total (3050)	M6010B ICP	79.9			mg/Kg	0.3	2	08/27/08 5:00	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/27/08 5:00	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:00	ear/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 5:00	ear/aeH
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/27/08 5:00	ear/aeH
Copper, total (3050)	M6010B ICP	483		*	mg/Kg	1	5	08/27/08 5:00	ear/aeH
Lead, total (3050)	M6020 ICP-MS	14.60		*	mg/Kg	0.05	0.3	08/29/08 3:39	msh
Manganese, total (3050)	M6010B ICP	146		*	mg/Kg	0.5	3	08/27/08 5:00	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:37	jws
Molybdenum, total (3050)	M6010B ICP	260		*	mg/Kg	1	5	08/27/08 5:00	ear/aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/27/08 5:00	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.48		*	mg/Kg	0.05	0.3	08/29/08 3:39	msh
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	08/29/08 3:39	msh
Uranium, total (3050)	M6020 ICP-MS	5.44		*	mg/Kg	0.05	0.3	08/29/08 3:39	msh
Zinc, total (3050)	M6010B ICP	64		*	mg/Kg	1	5	08/27/08 5:00	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.5		*	%	0.1	0.5	08/13/08 5:34	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:45	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 10:42	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 7:40	brd

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EB 9/17/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-P24-10-11

ACZ Sample ID: **L71041-11**  
 Date Sampled: 08/07/08 10:56  
 Date Received: 08/08/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 3:45	msh
Arsenic, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.3	0.5	08/29/08 3:45	msh
Barium, total (3050)	M6010B ICP	132			mg/Kg	0.3	2	08/27/08 5:04	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/27/08 5:04	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:04	ear/aeH
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/27/08 5:04	ear/aeH
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/27/08 5:04	ear/aeH
Copper, total (3050)	M6010B ICP	348		*	mg/Kg	1	5	08/27/08 5:04	ear/aeH
Lead, total (3050)	M6020 ICP-MS	104		*	mg/Kg	0.05	0.3	08/29/08 3:45	msh
Manganese, total (3050)	M6010B ICP	293		*	mg/Kg	0.5	3	08/27/08 5:04	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:44	jws
Molybdenum, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	08/27/08 5:04	ear/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/27/08 5:04	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	08/29/08 3:45	msh
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/29/08 3:45	msh
Uranium, total (3050)	M6020 ICP-MS	6.46		*	mg/Kg	0.05	0.3	08/29/08 3:45	msh
Zinc, total (3050)	M6010B ICP	550		*	mg/Kg	1	5	08/27/08 5:04	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.1		*	%	0.1	0.5	08/13/08 6:33	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:51	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 11:34	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 8:38	brd

Arizona license number: AZ0102

EQ 9/17/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-JS-01-0-1

ACZ Sample ID: **L71041-12**  
 Date Sampled: 08/07/08 12:39  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/29/08 3:52	msh
Arsenic, total (3050)	M6020 ICP-MS	9.7		*	mg/Kg	0.3	0.5	08/29/08 3:52	msh
Barium, total (3050)	M6010B ICP	67.3			mg/Kg	0.3	2	08/27/08 5:15	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/27/08 5:15	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:15	ear/aeH
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/27/08 5:15	ear/aeH
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/27/08 5:15	ear/aeH
Copper, total (3050)	M6010B ICP	3550		*	mg/Kg	1	5	08/27/08 5:15	ear/aeH
Lead, total (3050)	M6020 ICP-MS	64.70		*	mg/Kg	0.05	0.3	08/29/08 3:52	msh
Manganese, total (3050)	M6010B ICP	401		*	mg/Kg	0.5	3	08/27/08 5:15	ear/aeH
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.05	0.2	08/16/08 19:46	jws
Molybdenum, total (3050)	M6010B ICP	955		*	mg/Kg	1	5	08/27/08 5:15	ear/aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/27/08 5:15	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	1.90		*	mg/Kg	0.05	0.3	08/29/08 3:52	msh
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	08/29/08 3:52	msh
Uranium, total (3050)	M6020 ICP-MS	4.42		*	mg/Kg	0.05	0.3	08/29/08 3:52	msh
Zinc, total (3050)	M6010B ICP	133		*	mg/Kg	1	5	08/27/08 5:15	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.1		*	%	0.1	0.5	08/13/08 7:32	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 19:57	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 12:25	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 9:36	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-01-1-3

ACZ Sample ID: **L71041-13**  
 Date Sampled: 08/07/08 12:39  
 Date Received: 08/08/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.8	B	*	mg/Kg	0.2	1	08/29/08 4:11	msh
Arsenic, total (3050)	M6020 ICP-MS	16.8		*	mg/Kg	0.3	0.5	08/29/08 4:11	msh
Barium, total (3050)	M6010B ICP	99.1			mg/Kg	0.3	2	08/27/08 5:19	ear/aeH
Beryllium, total (3050)	M6010B ICP	2.1			mg/Kg	0.2	1	08/27/08 5:19	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:19	ear/aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/27/08 5:19	ear/aeH
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	08/27/08 5:19	ear/aeH
Copper, total (3050)	M6010B ICP	4020		*	mg/Kg	1	5	08/27/08 5:19	ear/aeH
Lead, total (3050)	M6020 ICP-MS	120		*	mg/Kg	0.05	0.3	08/29/08 4:11	msh
Manganese, total (3050)	M6010B ICP	566		*	mg/Kg	0.5	3	08/27/08 5:19	ear/aeH
Mercury, total	M7471A CVAA	0.08	B		mg/Kg	0.05	0.2	08/16/08 19:48	jws
Molybdenum, total (3050)	M6010B ICP	767		*	mg/Kg	1	5	08/27/08 5:19	ear/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/27/08 5:19	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.17		*	mg/Kg	0.05	0.3	08/29/08 4:11	msh
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	08/29/08 4:11	msh
Uranium, total (3050)	M6020 ICP-MS	13.40		*	mg/Kg	0.05	0.3	08/29/08 4:11	msh
Zinc, total (3050)	M6010B ICP	173		*	mg/Kg	1	5	08/27/08 5:19	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	76.9		*	%	0.1	0.5	08/13/08 8:31	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 20:03	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 13:17	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 10:34	brd

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-01-5-7

ACZ Sample ID: **L71041-14**  
 Date Sampled: 08/07/08 12:42  
 Date Received: 08/08/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.9	B	*	mg/Kg	0.2	1	08/29/08 4:17	msh
Arsenic, total (3050)	M6020 ICP-MS	13.5		*	mg/Kg	0.3	0.5	08/29/08 4:17	msh
Barium, total (3050)	M6010B ICP	83.7			mg/Kg	0.3	2	08/27/08 5:22	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/27/08 5:22	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:22	ear/aeH
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 5:22	ear/aeH
Cobalt, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	08/27/08 5:22	ear/aeH
Copper, total (3050)	M6010B ICP	7520		*	mg/Kg	1	5	08/27/08 5:22	ear/aeH
Lead, total (3050)	M6020 ICP-MS	78.60		*	mg/Kg	0.05	0.3	08/29/08 4:17	msh
Manganese, total (3050)	M6010B ICP	276		*	mg/Kg	0.5	3	08/27/08 5:22	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:51	jws
Molybdenum, total (3050)	M6010B ICP	525		*	mg/Kg	1	5	08/27/08 5:22	ear/aeH
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/27/08 5:22	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.43		*	mg/Kg	0.05	0.3	08/29/08 4:17	msh
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/29/08 4:17	msh
Uranium, total (3050)	M6020 ICP-MS	6.59		*	mg/Kg	0.05	0.3	08/29/08 4:17	msh
Zinc, total (3050)	M6010B ICP	125		*	mg/Kg	1	5	08/27/08 5:22	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.8		*	%	0.1	0.5	08/13/08 9:31	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 20:09	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 14:08	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 11:32	brd

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ER 9/17/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-P24-5-7

ACZ Sample ID: **L71041-15**  
 Date Sampled: 08/07/08 10:45  
 Date Received: 08/08/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 4:23	msh
Arsenic, total (3050)	M6020 ICP-MS	2.3		*	mg/Kg	0.3	0.5	08/29/08 4:23	msh
Barium, total (3050)	M6010B ICP	86.5			mg/Kg	0.3	2	08/27/08 5:26	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/27/08 5:26	ear/aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/27/08 5:26	ear/aeH
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	08/27/08 5:26	ear/aeH
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/27/08 5:26	ear/aeH
Copper, total (3050)	M6010B ICP	540		*	mg/Kg	1	5	08/27/08 5:26	ear/aeH
Lead, total (3050)	M6020 ICP-MS	24.60		*	mg/Kg	0.05	0.3	08/29/08 4:23	msh
Manganese, total (3050)	M6010B ICP	230		*	mg/Kg	0.5	3	08/27/08 5:26	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/16/08 19:54	jws
Molybdenum, total (3050)	M6010B ICP	106		*	mg/Kg	1	5	08/27/08 5:26	ear/aeH
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/27/08 5:26	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/29/08 4:23	msh
Thallium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	08/29/08 4:23	msh
Uranium, total (3050)	M6020 ICP-MS	3.97		*	mg/Kg	0.05	0.3	08/29/08 4:23	msh
Zinc, total (3050)	M6010B ICP	89		*	mg/Kg	1	5	08/27/08 5:26	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	08/13/08 10:30	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/12/08 20:15	mjc
Digestion - Hot Plate	M3050B ICP-MS							08/22/08 15:00	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/21/08 12:29	brd

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## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71083

Sampling Event: August 11<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 3 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
RA-SD-02-0-1.5/D/MS/	SA	L71083-01	S	X <sup>m</sup>
RA-SD-02-1.5-3.0/D/M	SA	L71083-02	S	X <sup>m</sup>
RA-SD-01-0-1.5/D/MS/	SA	L71083-03	S	X <sup>m</sup>

Matrix: S = Soil                      QC Type: SA = Sample                      m = Matrix spike and/or matrix spike duplicate.  
Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 2.3°C upon arrival at the laboratory, which met the criterion of ≤6°C. Data qualification was not required.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions summarized in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD RA-SD-02-0-1.5/D/MS/ (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc)</li> <li>RA-SD-02-1.5-3.0/D/M (Mercury)</li> <li>RA-SD-01-0-1.5/D/MS/ (Mercury)</li> <li>• LD</li> </ul> N/A	Yes	<p>The recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample RA-SD-02-0-1.5/D/MS/ could not be evaluated for copper and molybdenum because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
<ul style="list-style-type: none"> <li>• Internal Standards</li> </ul>		
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Method Blank Outliers and Resultant Data Qualification**

<b>Analyte</b>	<b>Blank</b>	<b>Concentration</b>	<b>Qualification</b>
Antimony (Batch WG250512)	MB	0.28 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Arsenic (Batch WG250512)	MB	1.45 mg/Kg	As the blank contamination was reported at a concentration >2.2x the analyte MDL, the associated arsenic results were flagged with B4.
Selenium (Batch WG250512)	MB	0.06 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

B4 = Target analyte detected in the blank at or above the method acceptance criteria.

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## Inorganic Analytical Results

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-SD-02-0-1.5/D/MS/

ACZ Sample ID: **L71083-01**  
 Date Sampled: 08/11/08 09:10  
 Date Received: 08/12/08  
 Sample Matrix: Soil

### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	5.8		*	mg/Kg	0.2	1	08/28/08 8:25	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	32.4		*	mg/Kg	0.3	0.5	08/28/08 8:25	erf/rac
Barium, total (3050)	M6010B ICP	52.4			mg/Kg	0.3	2	08/28/08 1:02	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/29/08 21:42	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:02	ear/aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	08/28/08 1:02	ear/aeH
Cobalt, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/28/08 1:02	ear/aeH
Copper, total (3050)	M6010B ICP	4210		*	mg/Kg	1	5	08/28/08 1:02	ear/aeH
Lead, total (3050)	M6020 ICP-MS	106		*	mg/Kg	0.05	0.3	08/28/08 8:25	erf/rac
Manganese, total (3050)	M6010B ICP	108			mg/Kg	0.5	3	08/28/08 1:02	ear/aeH
Mercury, total	M7471A CVAA	0.13	B		mg/Kg	0.04	0.2	08/23/08 16:50	jws/pmc
Molybdenum, total (3050)	M6010B ICP	530		*	mg/Kg	1	5	08/28/08 1:02	ear/aeH
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 1:02	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.13		*	mg/Kg	0.05	0.3	08/29/08 6:22	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	08/28/08 8:25	erf/rac
Uranium, total (3050)	M6020 ICP-MS	2.12		*	mg/Kg	0.05	0.3	08/28/08 8:25	erf/rac
Zinc, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/28/08 1:02	ear/aeH

B4

### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.3		*	%	0.1	0.5	08/16/08 20:23	brd

### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 21:54	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 8:40	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 17:00	lwt/bjl

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: RA-SD-02-1.5-3.0/D/M

ACZ Sample ID: **L71083-02**  
 Date Sampled: 08/11/08 09:30  
 Date Received: 08/12/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	7.4		*	mg/Kg	0.2	1	08/28/08 8:29	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	39.1		*	mg/Kg	0.3	0.5	08/28/08 8:29	erf/rac
Barium, total (3050)	M6010B ICP	57.4			mg/Kg	0.3	2	08/28/08 1:16	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/29/08 22:04	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:16	ear/aeH
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/28/08 1:16	ear/aeH
Cobalt, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	08/28/08 1:16	ear/aeH
Copper, total (3050)	M6010B ICP	4180		*	mg/Kg	1	5	08/28/08 1:16	ear/aeH
Lead, total (3050)	M6020 ICP-MS	91.30		*	mg/Kg	0.05	0.3	08/28/08 8:29	erf/rac
Manganese, total (3050)	M6010B ICP	181			mg/Kg	0.5	3	08/28/08 1:16	ear/aeH
Mercury, total	M7471A CVAA	0.13	B		mg/Kg	0.04	0.2	08/23/08 16:57	jws/pmc
Molybdenum, total (3050)	M6010B ICP	1000		*	mg/Kg	1	5	08/28/08 1:16	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:16	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.02		*	mg/Kg	0.05	0.3	08/29/08 6:26	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	08/28/08 8:29	erf/rac
Uranium, total (3050)	M6020 ICP-MS	3.98		*	mg/Kg	0.05	0.3	08/28/08 8:29	erf/rac
Zinc, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	08/28/08 1:16	ear/aeH

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	80.9		*	%	0.1	0.5	08/17/08 5:27	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:03	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 9:50	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 18:07	lwt/bjl

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: RA-SD-01-0-1.5/D/MS/

ACZ Sample ID: **L71083-03**  
Date Sampled: 08/11/08 09:50  
Date Received: 08/12/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.3		*	mg/Kg	0.2	1	08/28/08 8:33	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	10.1			mg/Kg	0.3	0.5	08/29/08 6:30	erf/rac
Barium, total (3050)	M6010B ICP	73.1			mg/Kg	0.3	2	08/28/08 1:19	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/29/08 22:08	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:19	ear/aeH
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/28/08 1:19	ear/aeH
Cobalt, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/28/08 1:19	ear/aeH
Copper, total (3050)	M6010B ICP	7630		*	mg/Kg	1	5	08/28/08 1:19	ear/aeH
Lead, total (3050)	M6020 ICP-MS	86.90		*	mg/Kg	0.05	0.3	08/28/08 8:33	erf/rac
Manganese, total (3050)	M6010B ICP	277			mg/Kg	0.5	3	08/28/08 1:19	ear/aeH
Mercury, total	M7471A CVAA	0.09	B		mg/Kg	0.05	0.3	08/23/08 17:03	jws/pmc
Molybdenum, total (3050)	M6010B ICP	998		*	mg/Kg	1	5	08/28/08 1:19	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:19	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.61		*	mg/Kg	0.05	0.3	08/29/08 6:30	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	08/28/08 8:33	erf/rac
Uranium, total (3050)	M6020 ICP-MS	7.72		*	mg/Kg	0.05	0.3	08/28/08 8:33	erf/rac
Zinc, total (3050)	M6010B ICP	91		*	mg/Kg	1	5	08/28/08 1:19	ear/aeH

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	72.8		*	%	0.1	0.5	08/17/08 14:32	brd

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:13	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 10:14	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 19:15	lwt/bjl

Arizona license number: AZ0102

EQ 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71084

Sampling Event: August 11<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/17/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 5 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
RA-SD-01-1.5-3.0/D/M	SA	L71084-01	S	X <sup>m</sup>
RA-JS-02-0-1/D/MS/MS	SA	L71084-02	S	X <sup>m</sup>
RA-JS-02-1-3/D/MS/MS	SA	L71084-03	S	X <sup>m</sup>
RA-JS-02-5-7	SA	L71084-04	S	X
RA-JS-02-5-7D	SA	L71084-05	S	X

Matrix: S = Soil

QC Type: SA = Sample

m = Matrix spike and/or matrix spike duplicate.

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 3.7°C and 2.3°C upon arrival at the laboratory, which met the criterion of ≤6°C. Data qualification was not required.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exception summarized in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD RA-SD-01-1.5-3.0/D/M (Mercury)</li> <li>RA-JS-02-0-1/D/MS/MS (Mercury)</li> <li>RA-JS-02-1-3/D/MS/MS (Mercury)</li> <li>• LD RA-JS-02-1-3/D/MS/MS (Percent Solids)</li> </ul>	Yes	<p>The recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range. Data qualification was not required.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	N/A	
	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Outliers and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Antimony (Batch WG250512)	MB	0.28 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Arsenic (Batch WG250512)	MB	1.45 mg/Kg	As the blank contamination was reported at a concentration >2.2x the analyte MDL, the associated arsenic and selenium results were flagged with B4.
Selenium (Batch WG250786 –Samples analyzed on 08/28/08)	MB	0.301 mg/Kg	
Selenium (Batch WG250852-Samples analyzed on 08/29/08)	MB	0.06 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.

MB – Method Blank

mg/Kg – Milligrams per Kilogram

MDL – Method Detection Limit

B4 = Target analyte detected in the blank at or above the method acceptance criteria.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-SD-01-1.5-3.0/D/M

ACZ Sample ID: **L71084-01**  
 Date Sampled: 08/11/08 10:05  
 Date Received: 08/12/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	4.0		*	mg/Kg	0.2	1	08/28/08 8:41	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	24.7		*	mg/Kg	0.3	0.5	08/28/08 8:41	erf/rac
Barium, total (3050)	M6010B ICP	81.7			mg/Kg	0.3	2	08/28/08 1:22	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/29/08 22:12	aeH
Cadmium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.5	2	08/28/08 1:22	ear/aeH
Chromium, total (3050)	M6010B ICP	14			mg/Kg	1	5	08/28/08 1:22	ear/aeH
Cobalt, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/28/08 1:22	ear/aeH
Copper, total (3050)	M6010B ICP	6960		*	mg/Kg	1	5	08/28/08 1:22	ear/aeH
Lead, total (3050)	M6020 ICP-MS	114		*	mg/Kg	0.05	0.3	08/28/08 8:41	erf/rac
Manganese, total (3050)	M6010B ICP	226			mg/Kg	0.5	3	08/28/08 1:22	ear/aeH
Mercury, total	M7471A CVAA	0.11	B		mg/Kg	0.05	0.3	08/29/08 21:57	pmc
Molybdenum, total (3050)	M6010B ICP	1590		*	mg/Kg	1	5	08/28/08 1:22	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:22	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.46		*	mg/Kg	0.05	0.3	08/29/08 6:38	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	08/28/08 8:41	erf/rac
Uranium, total (3050)	M6020 ICP-MS	10.90		*	mg/Kg	0.05	0.3	08/28/08 8:41	erf/rac
Zinc, total (3050)	M6010B ICP	186		*	mg/Kg	1	5	08/28/08 1:22	ear/aeH

B4

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	68.5		*	%	0.1	0.5	08/17/08 23:36	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:22	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 10:37	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 20:23	lwt/bjl

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**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-JS-02-0-1/D/MS/MS

ACZ Sample ID: **L71084-02**  
 Date Sampled: 08/11/08 10:28  
 Date Received: 08/12/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	8.0		*	mg/Kg	0.2	1	08/28/08 8:45	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	35.4		*	mg/Kg	0.3	0.5	08/28/08 8:45	erf/rac <b>B4</b>
Barium, total (3050)	M6010B ICP	74.1			mg/Kg	0.3	2	08/28/08 1:26	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/29/08 22:15	aeH
Cadmium, total (3050)	M6010B ICP	1.5	B		mg/Kg	0.5	2	08/28/08 1:26	ear/aeH
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/28/08 1:26	ear/aeH
Cobalt, total (3050)	M6010B ICP	17			mg/Kg	1	5	08/28/08 1:26	ear/aeH
Copper, total (3050)	M6010B ICP	30200		*	mg/Kg	5	30	08/29/08 22:15	aeH
Lead, total (3050)	M6020 ICP-MS	137		*	mg/Kg	0.05	0.3	08/28/08 8:45	erf/rac
Manganese, total (3050)	M6010B ICP	384			mg/Kg	0.5	3	08/28/08 1:26	ear/aeH
Mercury, total	M7471A CVAA	0.36			mg/Kg	0.06	0.3	08/29/08 22:05	pmc
Molybdenum, total (3050)	M6010B ICP	1430		*	mg/Kg	1	5	08/28/08 1:26	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:26	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	11.10		*	mg/Kg	0.05	0.3	08/28/08 8:45	erf/rac <b>B4</b>
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/28/08 8:45	erf/rac
Uranium, total (3050)	M6020 ICP-MS	5.63		*	mg/Kg	0.05	0.3	08/28/08 8:45	erf/rac
Zinc, total (3050)	M6010B ICP	281		*	mg/Kg	1	5	08/28/08 1:26	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	69.5		*	%	0.1	0.5	08/18/08 8:41	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:31	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 11:01	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 21:31	lw/bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-02-1-3/D/MS/MS

ACZ Sample ID: **L71084-03**  
 Date Sampled: 08/11/08 10:45  
 Date Received: 08/12/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	17.4		*	mg/Kg	0.4	2	08/30/08 1:03	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	89.7		*	mg/Kg	0.3	0.5	08/28/08 8:57	erf/rac
Barium, total (3050)	M6010B ICP	68.9			mg/Kg	0.3	2	08/28/08 1:29	ear/aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/29/08 22:19	aeH
Cadmium, total (3050)	M6010B ICP	2.5			mg/Kg	0.5	2	08/28/08 1:29	ear/aeH
Chromium, total (3050)	M6010B ICP	18			mg/Kg	1	5	08/28/08 1:29	ear/aeH
Cobalt, total (3050)	M6010B ICP	22			mg/Kg	1	5	08/28/08 1:29	ear/aeH
Copper, total (3050)	M6010B ICP	27800		*	mg/Kg	5	30	08/29/08 22:19	aeH
Lead, total (3050)	M6020 ICP-MS	349			mg/Kg	0.1	0.5	08/30/08 1:03	erf/rac
Manganese, total (3050)	M6010B ICP	327			mg/Kg	0.5	3	08/28/08 1:29	ear/aeH
Mercury, total	M7471A CVAA	0.28	B		mg/Kg	0.06	0.3	08/29/08 22:13	pmc
Molybdenum, total (3050)	M6010B ICP	3430		*	mg/Kg	1	5	08/28/08 1:29	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:29	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	9.76		*	mg/Kg	0.05	0.3	08/28/08 8:57	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	08/28/08 8:57	erf/rac
Uranium, total (3050)	M6020 ICP-MS	8.62		*	mg/Kg	0.05	0.3	08/28/08 8:57	erf/rac
Zinc, total (3050)	M6010B ICP	466		*	mg/Kg	1	5	08/28/08 1:29	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	65.9		*	%	0.1	0.5	08/18/08 17:46	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:41	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 11:24	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 22:39	lwt/bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-02-5-7

ACZ Sample ID: **L71084-04**  
 Date Sampled: 08/11/08 12:50  
 Date Received: 08/12/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	9.6		*	mg/Kg	0.2	1	08/28/08 9:01	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	60.0		*	mg/Kg	0.3	0.5	08/28/08 9:01	erf/rac
Barium, total (3050)	M6010B ICP	78.1			mg/Kg	0.3	2	08/28/08 1:33	ear/aeH
Beryllium, total (3050)	M6010B ICP	6.2			mg/Kg	0.4	2	08/29/08 22:23	aeH
Cadmium, total (3050)	M6010B ICP	1.8	B		mg/Kg	0.5	2	08/28/08 1:33	ear/aeH
Chromium, total (3050)	M6010B ICP	35			mg/Kg	1	5	08/28/08 1:33	ear/aeH
Cobalt, total (3050)	M6010B ICP	26			mg/Kg	1	5	08/28/08 1:33	ear/aeH
Copper, total (3050)	M6010B ICP	19600		*	mg/Kg	2	10	08/29/08 22:23	aeH
Lead, total (3050)	M6020 ICP-MS	199		*	mg/Kg	0.05	0.3	08/28/08 9:01	erf/rac
Manganese, total (3050)	M6010B ICP	382			mg/Kg	0.5	3	08/28/08 1:33	ear/aeH
Mercury, total	M7471A CVAA	0.32			mg/Kg	0.06	0.3	08/29/08 22:24	pmc
Molybdenum, total (3050)	M6010B ICP	1950		*	mg/Kg	1	5	08/28/08 1:33	ear/aeH
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	08/28/08 1:33	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	6.25		*	mg/Kg	0.05	0.3	08/28/08 9:01	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	08/28/08 9:01	erf/rac
Uranium, total (3050)	M6020 ICP-MS	29.90		*	mg/Kg	0.05	0.3	08/28/08 9:01	erf/rac
Zinc, total (3050)	M6010B ICP	629		*	mg/Kg	1	5	08/28/08 1:33	ear/aeH

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**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	53.0		*	%	0.1	0.5	08/19/08 11:55	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:50	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 11:48	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/22/08 23:47	lwt/bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-02-5-7D

ACZ Sample ID: **L71084-05**  
 Date Sampled: 08/11/08 12:50  
 Date Received: 08/12/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	9.2		*	mg/Kg	0.2	1	08/29/08 6:55	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	76.0		*	mg/Kg	0.3	0.5	08/28/08 9:05	erf/rac <b>B4</b>
Barium, total (3050)	M6010B ICP	81.1			mg/Kg	0.3	2	08/28/08 1:43	ear/aeH
Beryllium, total (3050)	M6010B ICP	5.0			mg/Kg	0.4	2	08/29/08 22:26	aeH
Cadmium, total (3050)	M6010B ICP	2.0			mg/Kg	0.5	2	08/28/08 1:43	ear/aeH
Chromium, total (3050)	M6010B ICP	32			mg/Kg	1	5	08/28/08 1:43	ear/aeH
Cobalt, total (3050)	M6010B ICP	25			mg/Kg	1	5	08/28/08 1:43	ear/aeH
Copper, total (3050)	M6010B ICP	18000		*	mg/Kg	5	30	09/03/08 1:43	ear/aeH
Lead, total (3050)	M6020 ICP-MS	185		*	mg/Kg	0.05	0.3	08/29/08 6:55	erf/rac
Manganese, total (3050)	M6010B ICP	415			mg/Kg	0.5	3	08/28/08 1:43	ear/aeH
Mercury, total	M7471A CVAA	0.57			mg/Kg	0.06	0.3	08/29/08 22:27	pmc
Molybdenum, total (3050)	M6010B ICP	1960		*	mg/Kg	1	5	08/28/08 1:43	ear/aeH
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/28/08 1:43	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	7.83		*	mg/Kg	0.05	0.3	08/28/08 9:05	erf/rac <b>B4</b>
Thallium, total (3050)	M6020 ICP-MS	0.52		*	mg/Kg	0.05	0.3	08/28/08 9:05	erf/rac
Uranium, total (3050)	M6020 ICP-MS	32.20		*	mg/Kg	0.05	0.3	08/28/08 9:05	erf/rac
Zinc, total (3050)	M6010B ICP	589		*	mg/Kg	1	5	08/28/08 1:43	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	60.0		*	%	0.1	0.5	08/19/08 21:00	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/14/08 22:59	brd
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:11	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 0:55	lwt/bjl

Arizona license number: AZ0102

EE 9/17/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71134                      Sampling Event: August 12<sup>th</sup>, 2008  
 Sample-specific Parameter Review? **Yes**                      Laboratory Performance Parameters? **No**  
 Data Reviewer: Liz Kraak                      Date Completed: 09/16/08  
 Peer Reviewer: Geoff Webb                      Date Completed: 09/17/08

This report summarizes the verification of analytical data for 17 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
RP-JS-02-0-1	SA	L71134-01	S	X
RP-JS-02-1-3	SA	L71134-02	S	X
RP-JS-02-1-3D	SA	L71134-03	S	X
RP-JS-02-5-7	SA	L71134-04	S	X
RP-JS-02-10-12	SA	L71134-05	S	X
RP-JS-02-15-17	SA	L71134-06	S	X
RP-JS-01-0-1	SA	L71134-07	S	X
RP-JS-01-1-3	SA	L71134-08	S	X
RP-JS-01-1-3D	SA	L71134-09	S	X
RP-JS-01-5-7	SA	L71134-10	S	X
RP-JS-01-10-12	SA	L71134-11	S	X
RP-JS-01-15-17	SA	L71134-12	S	X
EM-JS-08-0-1	SA	L71134-13	S	X
EM-JS-08-1-3	SA	L71134-14	S	X
EM-JS-08-1-3D	SA	L71134-15	S	X
EM-JS-08-5-7	SA	L71134-16	S	X <sup>m</sup>
EM-JS-08-10-12	SA	L71134-17	S	X <sup>m</sup>

Matrix: S = Soil                      QC Type: SA = Sample                      m = Matrix spike and/or matrix spike duplicate.

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.  
 Data are usable with qualification (noted below).  
 Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 1.7°C and 3.9°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not required.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD EM-JS-08-10-12 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium) EM-JS-08-5-7 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>• LD RP-JS-02-1-3 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample EM-JS-08-5-7 could not be evaluated for copper, manganese, molybdenum, and zinc because the results in the native sample were greater than four times the concentration of the spike added during digestion. The MS/MSD recoveries for sample EM-JS-08-10-12 could not be evaluated for lead because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	N/A	
	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	No	With the exception noted in Table 2, all LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits.
Elevated RLs without associated non-detect results	Yes	

Review Parameter	Criteria Met?	Comments
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	Qualification
EM-JS-08-10-12	Antimony	<b>57.2/ 62.8</b> (75-125)	As the potential bias was considered to be low, the listed analytical results were flagged with a M2.
EM-JS-08-5-7	Chromium	96.2/ <b>126.5</b> (75-125)	As the potential bias was considered to be high, the chromium result for sample EM-JS-08-5-7 was flagged with a M1.

%R = Percent Recovery      M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

**Table 2: LCS/LCSD Recovery Outliers and Resultant Data Qualification**

Associated Sample	Analyte	%R (%)	Qualification
Batch WG250513 (All Samples)	Arsenic	<b>271.1/ 263.2</b> (181-270)	As the potential bias was high, all detected arsenic results were flagged with a L1.

%R – Percent Recovery      L1 – The associated blank spike recovery was above the laboratory acceptance limits.

FMI Gold & Copper - Sierrita

Project ID:

Sample ID: RP-JS-02-0-1

ACZ Sample ID: **L71134-01**

Date Sampled: 08/12/08 08:11

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/29/08 6:40	rac
Arsenic, total (3050)	M6020 ICP-MS	3.5		*	mg/Kg	0.3	0.5	08/29/08 6:40	rac LI
Barium, total (3050)	M6010B ICP	303			mg/Kg	0.3	2	08/28/08 3:09	aeh
Beryllium, total (3050)	M6010B ICP	1.6			mg/Kg	0.2	1	08/28/08 3:09	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:09	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/28/08 3:09	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/28/08 3:09	aeh
Copper, total (3050)	M6010B ICP	63		*	mg/Kg	1	5	08/28/08 3:09	aeh
Lead, total (3050)	M6020 ICP-MS	10.80		*	mg/Kg	0.05	0.3	08/29/08 6:40	rac
Manganese, total (3050)	M6010B ICP	975		*	mg/Kg	0.5	3	08/28/08 3:09	aeh
Mercury, total	M7471A CVAA	0.04	B		mg/Kg	0.04	0.2	08/23/08 17:15	jws/pmc
Molybdenum, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/28/08 3:09	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/28/08 3:09	aeh
Selenium, total (3050)	M6020 ICP-MS	0.34			mg/Kg	0.05	0.3	08/29/08 6:40	rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B		mg/Kg	0.05	0.3	08/29/08 6:40	rac
Uranium, total (3050)	M6020 ICP-MS	2.11		*	mg/Kg	0.05	0.3	08/29/08 6:40	rac
Zinc, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/28/08 3:09	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.3		*	%	0.1	0.5	08/18/08 19:10	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 17:00	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 9:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 3:11	lwt/bjl

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**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-02-1-3

ACZ Sample ID: **L71134-02**

Date Sampled: 08/12/08 08:11

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 6:53	rac
Arsenic, total (3050)	M6020 ICP-MS	3.5		*	mg/Kg	0.3	0.5	08/29/08 6:53	rac LI
Barium, total (3050)	M6010B ICP	47.3			mg/Kg	0.3	2	08/28/08 3:13	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 3:13	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:13	aeh
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/28/08 3:13	aeh
Cobalt, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:13	aeh
Copper, total (3050)	M6010B ICP	74		*	mg/Kg	1	5	08/28/08 3:13	aeh
Lead, total (3050)	M6020 ICP-MS	8.50		*	mg/Kg	0.05	0.3	08/29/08 6:53	rac
Manganese, total (3050)	M6010B ICP	160		*	mg/Kg	0.5	3	08/28/08 3:13	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:17	jws/pmc
Molybdenum, total (3050)	M6010B ICP	121		*	mg/Kg	1	5	08/28/08 3:13	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 3:13	aeh
Selenium, total (3050)	M6020 ICP-MS	0.74			mg/Kg	0.05	0.3	08/29/08 6:53	rac
Thallium, total (3050)	M6020 ICP-MS	0.11	B		mg/Kg	0.05	0.3	08/29/08 6:53	rac
Uranium, total (3050)	M6020 ICP-MS	1.07		*	mg/Kg	0.05	0.3	08/29/08 6:53	rac
Zinc, total (3050)	M6010B ICP	23		*	mg/Kg	1	5	08/28/08 3:13	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.8		*	%	0.1	0.5	08/18/08 21:21	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 17:31	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 9:22	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 4:19	lwt/bjl

Arizona license number: AZ0102

EQ 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-02-1-3D

ACZ Sample ID: **L71134-03**

Date Sampled: 08/12/08 08:11

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 7:00	rac
Arsenic, total (3050)	M6020 ICP-MS	3.7		*	mg/Kg	0.3	0.5	08/29/08 7:00	rac LI
Barium, total (3050)	M6010B ICP	49.3			mg/Kg	0.3	2	08/28/08 3:16	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 3:16	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:16	aeh
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/28/08 3:16	aeh
Cobalt, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:16	aeh
Copper, total (3050)	M6010B ICP	81		*	mg/Kg	1	5	08/28/08 3:16	aeh
Lead, total (3050)	M6020 ICP-MS	9.53		*	mg/Kg	0.05	0.3	08/29/08 7:00	rac
Manganese, total (3050)	M6010B ICP	169		*	mg/Kg	0.5	3	08/28/08 3:16	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/23/08 17:19	jws/pmc
Molybdenum, total (3050)	M6010B ICP	109		*	mg/Kg	1	5	08/28/08 3:16	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 3:16	aeh
Selenium, total (3050)	M6020 ICP-MS	0.89			mg/Kg	0.05	0.3	08/29/08 7:00	rac
Thallium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	08/29/08 7:00	rac
Uranium, total (3050)	M6020 ICP-MS	1.25		*	mg/Kg	0.05	0.3	08/29/08 7:00	rac
Zinc, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	08/28/08 3:16	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.7		*	%	0.1	0.5	08/19/08 1:43	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 18:03	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 9:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 5:27	lwt/bjl

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EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-02-5-7

ACZ Sample ID: **L71134-04**

Date Sampled: 08/12/08 08:21

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 7:20	rac
Arsenic, total (3050)	M6020 ICP-MS	5.2		*	mg/Kg	0.3	0.5	08/29/08 7:20	rac LI
Barium, total (3050)	M6010B ICP	188			mg/Kg	0.3	2	08/28/08 3:20	aeH
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	08/28/08 3:20	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:20	aeH
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/28/08 3:20	aeH
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	08/28/08 3:20	aeH
Copper, total (3050)	M6010B ICP	123		*	mg/Kg	1	5	08/28/08 3:20	aeH
Lead, total (3050)	M6020 ICP-MS	7.69		*	mg/Kg	0.05	0.3	08/29/08 7:20	rac
Manganese, total (3050)	M6010B ICP	1250		*	mg/Kg	0.5	3	08/28/08 3:20	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:21	jws/pmc
Molybdenum, total (3050)	M6010B ICP	32		*	mg/Kg	1	5	08/28/08 3:20	aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/28/08 3:20	aeH
Selenium, total (3050)	M6020 ICP-MS	0.70			mg/Kg	0.05	0.3	08/29/08 7:20	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B		mg/Kg	0.05	0.3	08/29/08 7:20	rac
Uranium, total (3050)	M6020 ICP-MS	2.12		*	mg/Kg	0.05	0.3	08/29/08 7:20	rac
Zinc, total (3050)	M6010B ICP	71		*	mg/Kg	1	5	08/28/08 3:20	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.3		*	%	0.1	0.5	08/19/08 3:54	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 18:34	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 10:07	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 6:35	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

FMI Gold & Copper - Sierrita

Project ID:

Sample ID: RP-JS-02-10-12

ACZ Sample ID: L71134-05

Date Sampled: 08/12/08 08:37

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/29/08 7:27	rac
Arsenic, total (3050)	M6020 ICP-MS	3.3		*	mg/Kg	0.3	0.5	08/29/08 7:27	rac LI
Barium, total (3050)	M6010B ICP	50.9			mg/Kg	0.3	2	08/28/08 3:23	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/28/08 3:23	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:23	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:23	aeh
Cobalt, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	08/28/08 3:23	aeh
Copper, total (3050)	M6010B ICP	323		*	mg/Kg	1	5	08/28/08 3:23	aeh
Lead, total (3050)	M6020 ICP-MS	14.50		*	mg/Kg	0.05	0.3	08/29/08 7:27	rac
Manganese, total (3050)	M6010B ICP	713		*	mg/Kg	0.5	3	08/28/08 3:23	aeh
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.04	0.2	08/23/08 17:23	jws/pmc
Molybdenum, total (3050)	M6010B ICP	93		*	mg/Kg	1	5	08/28/08 3:23	aeh
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	08/28/08 3:23	aeh
Selenium, total (3050)	M6020 ICP-MS	0.93			mg/Kg	0.05	0.3	08/29/08 7:27	rac
Thallium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	08/29/08 7:27	rac
Uranium, total (3050)	M6020 ICP-MS	9.12		*	mg/Kg	0.05	0.3	08/29/08 7:27	rac
Zinc, total (3050)	M6010B ICP	139		*	mg/Kg	1	5	08/28/08 3:23	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	88.4		*	%	0.1	0.5	08/19/08 6:05	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 19:06	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 10:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 7:43	lwt/bjl

Arizona license number: AZ0102

Er 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-02-15-17

ACZ Sample ID: **L71134-06**

Date Sampled: 08/12/08 08:51

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	08/29/08 7:33	rac
Arsenic, total (3050)	M6020 ICP-MS	3.1		*	mg/Kg	0.3	0.5	08/29/08 7:33	rac LI
Barium, total (3050)	M6010B ICP	47.5			mg/Kg	0.3	2	08/28/08 3:27	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/28/08 3:27	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:27	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:27	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	08/28/08 3:27	aeh
Copper, total (3050)	M6010B ICP	289		*	mg/Kg	1	5	08/28/08 3:27	aeh
Lead, total (3050)	M6020 ICP-MS	14.70		*	mg/Kg	0.05	0.3	08/29/08 7:33	rac
Manganese, total (3050)	M6010B ICP	386		*	mg/Kg	0.5	3	08/28/08 3:27	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:25	jws/pmc
Molybdenum, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/28/08 3:27	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:27	aeh
Selenium, total (3050)	M6020 ICP-MS	0.84			mg/Kg	0.05	0.3	08/29/08 7:33	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	08/29/08 7:33	rac
Uranium, total (3050)	M6020 ICP-MS	4.35		*	mg/Kg	0.05	0.3	08/29/08 7:33	rac
Zinc, total (3050)	M6010B ICP	64		*	mg/Kg	1	5	08/28/08 3:27	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.2		*	%	0.1	0.5	08/19/08 8:15	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 19:37	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 10:52	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 8:51	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-01-0-1

ACZ Sample ID: **L71134-07**

Date Sampled: 08/12/08 09:21

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 7:40	rac
Arsenic, total (3050)	M6020 ICP-MS	3.5		*	mg/Kg	0.3	0.5	08/29/08 7:40	rac
Barium, total (3050)	M6010B ICP	127			mg/Kg	0.3	2	08/28/08 3:37	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	08/28/08 3:37	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:37	aeh
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/28/08 3:37	aeh
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/28/08 3:37	aeh
Copper, total (3050)	M6010B ICP	124		*	mg/Kg	1	5	08/28/08 3:37	aeh
Lead, total (3050)	M6020 ICP-MS	11.40		*	mg/Kg	0.05	0.3	08/29/08 7:40	rac
Manganese, total (3050)	M6010B ICP	271		*	mg/Kg	0.5	3	08/28/08 3:37	aeh
Mercury, total	M7471A CVA	0.07	B		mg/Kg	0.04	0.2	08/23/08 17:28	jws/pmc
Molybdenum, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	08/28/08 3:37	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:37	aeh
Selenium, total (3050)	M6020 ICP-MS	0.91			mg/Kg	0.05	0.3	08/29/08 7:40	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	08/29/08 7:40	rac
Uranium, total (3050)	M6020 ICP-MS	2.64		*	mg/Kg	0.05	0.3	08/29/08 7:40	rac
Zinc, total (3050)	M6010B ICP	40		*	mg/Kg	1	5	08/28/08 3:37	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.2		*	%	0.1	0.5	08/19/08 10:26	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 20:09	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 11:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 9:59	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

FMI Gold & Copper - Sierrita  
 Project ID:  
 Sample ID: RP-JS-01-1-3

ACZ Sample ID: **L71134-08**  
 Date Sampled: 08/12/08 09:21  
 Date Received: 08/13/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 7:47	rac
Arsenic, total (3050)	M6020 ICP-MS	3.1		*	mg/Kg	0.3	0.5	08/29/08 7:47	rac
Barium, total (3050)	M6010B ICP	46.1			mg/Kg	0.3	2	08/28/08 3:40	aeh
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/28/08 3:40	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:40	aeh
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/28/08 3:40	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/28/08 3:40	aeh
Copper, total (3050)	M6010B ICP	183		*	mg/Kg	1	5	08/28/08 3:40	aeh
Lead, total (3050)	M6020 ICP-MS	12.70		*	mg/Kg	0.05	0.3	08/29/08 7:47	rac
Manganese, total (3050)	M6010B ICP	244		*	mg/Kg	0.5	3	08/28/08 3:40	aeh
Mercury, total	M7471A CVA		U		mg/Kg	0.04	0.2	08/23/08 17:30	jws/pmc
Molybdenum, total (3050)	M6010B ICP	86		*	mg/Kg	1	5	08/28/08 3:40	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:40	aeh
Selenium, total (3050)	M6020 ICP-MS	0.80			mg/Kg	0.05	0.3	08/29/08 7:47	rac
Thallium, total (3050)	M6020 ICP-MS	0.13	B		mg/Kg	0.05	0.3	08/29/08 7:47	rac
Uranium, total (3050)	M6020 ICP-MS	2.44		*	mg/Kg	0.05	0.3	08/29/08 7:47	rac
Zinc, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	08/28/08 3:40	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.8		*	%	0.1	0.5	08/19/08 12:37	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 20:41	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 11:37	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 11:06	lwt/bjl

Arizona license number: AZ0102

EQ 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-01-1-3D

ACZ Sample ID: **L71134-09**

Date Sampled: 08/12/08 09:21

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 7:53	rac
Arsenic, total (3050)	M6020 ICP-MS	3.1		*	mg/Kg	0.3	0.5	08/29/08 7:53	rac LI
Barium, total (3050)	M6010B ICP	41.8			mg/Kg	0.3	2	08/28/08 3:44	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 3:44	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:44	aeh
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/28/08 3:44	aeh
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/28/08 3:44	aeh
Copper, total (3050)	M6010B ICP	181		*	mg/Kg	1	5	08/28/08 3:44	aeh
Lead, total (3050)	M6020 ICP-MS	13.40		*	mg/Kg	0.05	0.3	08/29/08 7:53	rac
Manganese, total (3050)	M6010B ICP	239		*	mg/Kg	0.5	3	08/28/08 3:44	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:37	jws/pmc
Molybdenum, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	08/28/08 3:44	aeh
Nickel, total (3050)	M6010B ICP	1	B		mg/Kg	1	5	08/28/08 3:44	aeh
Selenium, total (3050)	M6020 ICP-MS	0.80			mg/Kg	0.05	0.3	08/29/08 7:53	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B		mg/Kg	0.05	0.3	08/29/08 7:53	rac
Uranium, total (3050)	M6020 ICP-MS	2.35		*	mg/Kg	0.05	0.3	08/29/08 7:53	rac
Zinc, total (3050)	M6010B ICP	42		*	mg/Kg	1	5	08/28/08 3:44	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.2		*	%	0.1	0.5	08/19/08 14:48	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 21:12	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 12:14	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-01-5-7

ACZ Sample ID: **L71134-10**

Date Sampled: 08/12/08 09:40

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 8:00	rac
Arsenic, total (3050)	M6020 ICP-MS	1.9		*	mg/Kg	0.3	0.5	08/29/08 8:00	rac LI
Barium, total (3050)	M6010B ICP	49.0			mg/Kg	0.3	2	08/28/08 3:47	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 3:47	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:47	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:47	aeh
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/28/08 3:47	aeh
Copper, total (3050)	M6010B ICP	137		*	mg/Kg	1	5	08/28/08 3:47	aeh
Lead, total (3050)	M6020 ICP-MS	6.43		*	mg/Kg	0.05	0.3	08/29/08 8:00	rac
Manganese, total (3050)	M6010B ICP	231		*	mg/Kg	0.5	3	08/28/08 3:47	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:39	jws/pmc
Molybdenum, total (3050)	M6010B ICP	33		*	mg/Kg	1	5	08/28/08 3:47	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:47	aeh
Selenium, total (3050)	M6020 ICP-MS	0.60			mg/Kg	0.05	0.3	08/29/08 8:00	rac
Thallium, total (3050)	M6020 ICP-MS	0.08	B		mg/Kg	0.05	0.3	08/29/08 8:00	rac
Uranium, total (3050)	M6020 ICP-MS	1.26		*	mg/Kg	0.05	0.3	08/29/08 8:00	rac
Zinc, total (3050)	M6010B ICP	36		*	mg/Kg	1	5	08/28/08 3:47	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.9		*	%	0.1	0.5	08/19/08 16:59	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 21:44	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:22	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 13:22	lwt/bjl

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-01-10-12

ACZ Sample ID: **L71134-11**

Date Sampled: 08/12/08 09:53

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	08/29/08 8:07	rac
Arsenic, total (3050)	M6020 ICP-MS	2.6		*	mg/Kg	0.3	0.5	08/29/08 8:07	rac
Barium, total (3050)	M6010B ICP	50.8			mg/Kg	0.3	2	08/28/08 3:51	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/28/08 3:51	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:51	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:51	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/28/08 3:51	aeh
Copper, total (3050)	M6010B ICP	466		*	mg/Kg	1	5	08/28/08 3:51	aeh
Lead, total (3050)	M6020 ICP-MS	9.69		*	mg/Kg	0.05	0.3	08/29/08 8:07	rac
Manganese, total (3050)	M6010B ICP	207		*	mg/Kg	0.5	3	08/28/08 3:51	aeh
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.04	0.2	08/23/08 17:41	jws/pmc
Molybdenum, total (3050)	M6010B ICP	126		*	mg/Kg	1	5	08/28/08 3:51	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:51	aeh
Selenium, total (3050)	M6020 ICP-MS	1.04			mg/Kg	0.05	0.3	08/29/08 8:07	rac
Thallium, total (3050)	M6020 ICP-MS	0.09	B		mg/Kg	0.05	0.3	08/29/08 8:07	rac
Uranium, total (3050)	M6020 ICP-MS	2.25		*	mg/Kg	0.05	0.3	08/29/08 8:07	rac
Zinc, total (3050)	M6010B ICP	48		*	mg/Kg	1	5	08/28/08 3:51	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.8		*	%	0.1	0.5	08/19/08 19:10	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 22:15	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 14:30	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: RP-JS-01-15-17

ACZ Sample ID: **L71134-12**

Date Sampled: 08/12/08 10:05

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	08/29/08 8:13	rac
Arsenic, total (3050)	M6020 ICP-MS	3.6		*	mg/Kg	0.3	0.5	08/29/08 8:13	rac LI
Barium, total (3050)	M6010B ICP	56.8			mg/Kg	0.3	2	08/28/08 3:54	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	08/28/08 3:54	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:54	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 3:54	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	08/28/08 3:54	aeh
Copper, total (3050)	M6010B ICP	254		*	mg/Kg	1	5	08/28/08 3:54	aeh
Lead, total (3050)	M6020 ICP-MS	11.30		*	mg/Kg	0.05	0.3	08/29/08 8:13	rac
Manganese, total (3050)	M6010B ICP	368		*	mg/Kg	0.5	3	08/28/08 3:54	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/23/08 17:44	jws/pmc
Molybdenum, total (3050)	M6010B ICP	67		*	mg/Kg	1	5	08/28/08 3:54	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 3:54	aeh
Selenium, total (3050)	M6020 ICP-MS	0.93			mg/Kg	0.05	0.3	08/29/08 8:13	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	08/29/08 8:13	rac
Uranium, total (3050)	M6020 ICP-MS	4.60		*	mg/Kg	0.05	0.3	08/29/08 8:13	rac
Zinc, total (3050)	M6010B ICP	84		*	mg/Kg	1	5	08/28/08 3:54	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.4		*	%	0.1	0.5	08/19/08 21:20	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 22:47	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 13:07	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 15:38	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

### FMI Gold & Copper - Sierrita

Project ID:

Sample ID: EM-JS-08-0-1

ACZ Sample ID: **L71134-13**

Date Sampled: 08/12/08 13:28

Date Received: 08/13/08

Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.1		*	mg/Kg	0.2	1	08/29/08 8:20	rac
Arsenic, total (3050)	M6020 ICP-MS	11.9			mg/Kg	0.3	0.5	08/29/08 8:20	rac LI
Barium, total (3050)	M6010B ICP	55.7			mg/Kg	0.3	2	08/28/08 3:58	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 3:58	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 3:58	aeh
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/28/08 3:58	aeh
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	08/28/08 3:58	aeh
Copper, total (3050)	M6010B ICP	2040		*	mg/Kg	1	5	08/28/08 3:58	aeh
Lead, total (3050)	M6020 ICP-MS	57.00		*	mg/Kg	0.05	0.3	08/29/08 8:20	rac
Manganese, total (3050)	M6010B ICP	166		*	mg/Kg	0.5	3	08/28/08 3:58	aeh
Mercury, total	M7471A CVAA	0.08	B		mg/Kg	0.04	0.2	08/23/08 17:46	jws/pmc
Molybdenum, total (3050)	M6010B ICP	1240		*	mg/Kg	1	5	08/28/08 3:58	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 3:58	aeh
Selenium, total (3050)	M6020 ICP-MS	3.24			mg/Kg	0.05	0.3	08/29/08 8:20	rac
Thallium, total (3050)	M6020 ICP-MS	0.12	B		mg/Kg	0.05	0.3	08/29/08 8:20	rac
Uranium, total (3050)	M6020 ICP-MS	2.41		*	mg/Kg	0.05	0.3	08/29/08 8:20	rac
Zinc, total (3050)	M6010B ICP	39		*	mg/Kg	1	5	08/28/08 3:58	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	08/19/08 23:31	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 23:19	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 13:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 16:46	lwt/bjl

Arizona license number: AZ0102

EQ 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: EM-JS-08-1-3

ACZ Sample ID: **L71134-14**

Date Sampled: 08/12/08 13:28

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	08/29/08 8:40	rac
Arsenic, total (3050)	M6020 ICP-MS	7.7		*	mg/Kg	0.3	0.5	08/29/08 8:40	rac LI
Barium, total (3050)	M6010B ICP	47.3			mg/Kg	0.3	2	08/28/08 4:01	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 4:01	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 4:01	aeh
Chromium, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	08/28/08 4:01	aeh
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	08/28/08 4:01	aeh
Copper, total (3050)	M6010B ICP	1800		*	mg/Kg	1	5	08/28/08 4:01	aeh
Lead, total (3050)	M6020 ICP-MS	152		*	mg/Kg	0.05	0.3	08/29/08 8:40	rac
Manganese, total (3050)	M6010B ICP	190		*	mg/Kg	0.5	3	08/28/08 4:01	aeh
Mercury, total	M7471A CVAA	0.09	B		mg/Kg	0.04	0.2	08/23/08 17:48	jws/pmc
Molybdenum, total (3050)	M6010B ICP	315		*	mg/Kg	1	5	08/28/08 4:01	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 4:01	aeh
Selenium, total (3050)	M6020 ICP-MS	3.38			mg/Kg	0.05	0.3	08/29/08 8:40	rac
Thallium, total (3050)	M6020 ICP-MS	0.20	B		mg/Kg	0.05	0.3	08/29/08 8:40	rac
Uranium, total (3050)	M6020 ICP-MS	1.17		*	mg/Kg	0.05	0.3	08/29/08 8:40	rac
Zinc, total (3050)	M6010B ICP	39		*	mg/Kg	1	5	08/28/08 4:01	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.5		*	%	0.1	0.5	08/20/08 1:42	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/18/08 23:50	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 13:52	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 17:54	lwt/bjl

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: EM-JS-08-1-3D

ACZ Sample ID: **L71134-15**

Date Sampled: 08/12/08 13:28

Date Received: 08/13/08

Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	08/29/08 8:47	rac
Arsenic, total (3050)	M6020 ICP-MS	8.2		*	mg/Kg	0.3	0.5	08/29/08 8:47	rac LI
Barium, total (3050)	M6010B ICP	69.5			mg/Kg	0.3	2	08/28/08 4:04	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 4:04	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 4:04	aeh
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	08/28/08 4:04	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	08/28/08 4:04	aeh
Copper, total (3050)	M6010B ICP	1430		*	mg/Kg	1	5	08/28/08 4:04	aeh
Lead, total (3050)	M6020 ICP-MS	51.90		*	mg/Kg	0.05	0.3	08/29/08 8:47	rac
Manganese, total (3050)	M6010B ICP	193		*	mg/Kg	0.5	3	08/28/08 4:04	aeh
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.04	0.2	08/23/08 17:50	jws/pmc
Molybdenum, total (3050)	M6010B ICP	342		*	mg/Kg	1	5	08/28/08 4:04	aeh
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 4:04	aeh
Selenium, total (3050)	M6020 ICP-MS	2.85			mg/Kg	0.05	0.3	08/29/08 8:47	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B		mg/Kg	0.05	0.3	08/29/08 8:47	rac
Uranium, total (3050)	M6020 ICP-MS	1.29		*	mg/Kg	0.05	0.3	08/29/08 8:47	rac
Zinc, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	08/28/08 4:04	aeh

**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	08/20/08 3:53	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 0:22	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 14:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 19:02	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: EM-JS-08-5-7

ACZ Sample ID: **L71134-16**

Date Sampled: 08/12/08 13:33

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	13.6		*	mg/Kg	0.2	1	08/29/08 8:53	rac
Arsenic, total (3050)	M6020 ICP-MS	64.8		*	mg/Kg	0.3	0.5	08/29/08 8:53	rac <b>L1</b>
Barium, total (3050)	M6010B ICP	150			mg/Kg	0.3	2	08/28/08 4:08	aeH
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	08/28/08 4:08	aeH
Cadmium, total (3050)	M6010B ICP	5.0			mg/Kg	0.5	2	08/28/08 4:08	aeH
Chromium, total (3050)	M6010B ICP	36		*	mg/Kg	1	5	08/28/08 4:08	aeH <b>M1</b>
Cobalt, total (3050)	M6010B ICP	42		*	mg/Kg	1	5	08/28/08 4:08	aeH
Copper, total (3050)	M6010B ICP	26800		*	mg/Kg	5	30	08/29/08 23:34	aeH
Lead, total (3050)	M6020 ICP-MS	999		*	mg/Kg	0.2	1	09/02/08 20:02	msh
Manganese, total (3050)	M6010B ICP	932		*	mg/Kg	0.5	3	08/28/08 4:08	aeH
Mercury, total	M7471A CVAA	0.60			mg/Kg	0.04	0.2	08/23/08 17:52	jws/pmc
Molybdenum, total (3050)	M6010B ICP	6470		*	mg/Kg	1	5	08/28/08 4:08	aeH
Nickel, total (3050)	M6010B ICP	33			mg/Kg	1	5	08/28/08 4:08	aeH
Selenium, total (3050)	M6020 ICP-MS	7.85			mg/Kg	0.05	0.3	08/29/08 8:53	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B		mg/Kg	0.05	0.3	08/29/08 8:53	rac
Uranium, total (3050)	M6020 ICP-MS	5.20		*	mg/Kg	0.05	0.3	08/29/08 8:53	rac
Zinc, total (3050)	M6010B ICP	1550		*	mg/Kg	1	5	08/28/08 4:08	aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	88.9		*	%	0.1	0.5	08/20/08 6:04	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 0:53	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 14:37	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 20:10	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID:

Sample ID: EM-JS-08-10-12

ACZ Sample ID: **L71134-17**

Date Sampled: 08/12/08 13:56

Date Received: 08/13/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.0		*	mg/Kg	0.2	1	08/29/08 9:00	rac <b>MZ</b>
Arsenic, total (3050)	M6020 ICP-MS	16.0		*	mg/Kg	0.3	0.5	08/29/08 9:00	rac
Barium, total (3050)	M6010B ICP	77.6			mg/Kg	0.3	2	08/28/08 4:29	aeh
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/28/08 4:29	aeh
Cadmium, total (3050)	M6010B ICP	5.3			mg/Kg	0.5	2	08/28/08 4:29	aeh
Chromium, total (3050)	M6010B ICP	193		*	mg/Kg	1	5	08/28/08 4:29	aeh
Cobalt, total (3050)	M6010B ICP	23		*	mg/Kg	1	5	08/28/08 4:29	aeh
Copper, total (3050)	M6010B ICP	4120		*	mg/Kg	1	5	08/28/08 4:29	aeh
Lead, total (3050)	M6020 ICP-MS	303		*	mg/Kg	0.1	0.5	09/02/08 20:06	msh
Manganese, total (3050)	M6010B ICP	683		*	mg/Kg	0.5	3	08/28/08 4:29	aeh
Mercury, total	M7471A CVAA	0.40			mg/Kg	0.04	0.2	08/23/08 17:55	jws/pmc
Molybdenum, total (3050)	M6010B ICP	2220		*	mg/Kg	1	5	08/28/08 4:29	aeh
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	08/28/08 4:29	aeh
Selenium, total (3050)	M6020 ICP-MS	2.86			mg/Kg	0.05	0.3	08/29/08 9:00	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B		mg/Kg	0.05	0.3	08/29/08 9:00	rac
Uranium, total (3050)	M6020 ICP-MS	7.78		*	mg/Kg	0.05	0.3	08/29/08 9:00	rac
Zinc, total (3050)	M6010B ICP	741		*	mg/Kg	1	5	08/28/08 4:29	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.1		*	%	0.1	0.5	08/20/08 8:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 1:25	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 15:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 21:18	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71174

Sampling Event: August 13<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 1 soil sample. The soil sample was analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EQUIP-1	SA	L71174-01	W	X

Matrix: W = Water      QC Type: SA = Sample

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	Samples were received intact and the cooler temperature was 5.5°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.
Holding Times	Yes	
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC • MS/MSD N/A • LD N/A	Yes	Since sample EQUIP-1 was not the selected quality control sample, quality control results were not included in this report.
Method QC • Serial Dilution N/A • Internal Standards	N/A	
	Yes	<b>Internal Standards</b> All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.
Field QC • Rinsate Blank N/A • Field Duplicate N/A • Field Blank N/A	N/A	
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**FMI Gold & Copper - Sierrita**

Project ID:  
Sample ID: EQUIP-1

ACZ Sample ID: **L71174-01**  
Date Sampled: 08/13/08 13:35  
Date Received: 08/14/08  
Sample Matrix: Ground Water

Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M200.2 ICP							08/24/08 23:48	jws
Total Hot Plate Digestion	M200.2 ICP-MS							08/19/08 13:58	jws

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total	M200.8 ICP-MS		U		mg/L	0.0004	0.002	08/22/08 1:59	rac
Barium, total	M200.7 ICP		U		mg/L	0.003	0.02	08/26/08 21:01	ear/aeH
Beryllium, total	M200.7 ICP		U		mg/L	0.002	0.01	08/26/08 21:01	ear/aeH
Cadmium, total	M200.7 ICP		U		mg/L	0.005	0.02	08/26/08 21:01	ear/aeH
Chromium, total	M200.7 ICP		U		mg/L	0.01	0.05	08/26/08 21:01	ear/aeH
Cobalt, total	M200.7 ICP		U		mg/L	0.01	0.05	08/26/08 21:01	ear/aeH
Copper, total	M200.7 ICP		U		mg/L	0.01	0.05	08/26/08 21:01	ear/aeH
Lead, total	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	08/22/08 1:59	rac
Manganese, total	M200.7 ICP		U		mg/L	0.005	0.03	08/26/08 21:01	ear/aeH
Mercury, total	M245.1 CVAA		U		mg/L	0.0002	0.001	08/20/08 18:54	pmc
Molybdenum, total	M200.7 ICP		U		mg/L	0.01	0.05	08/26/08 21:01	ear/aeH
Nickel, total	M200.7 ICP		U		mg/L	0.01	0.05	08/27/08 14:41	ear/aeH
Selenium, total	M200.8 ICP-MS		U	*	mg/L	0.0001	0.0005	08/22/08 1:59	rac
Thallium, total	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	08/22/08 1:59	rac
Uranium, total	M200.8 ICP-MS		U		mg/L	0.0001	0.0005	08/26/08 6:50	msh
Zinc, total	M200.7 ICP		U		mg/L	0.01	0.05	08/26/08 21:01	ear/aeH

Arizona license number: AZ0102

ER 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71176

Sampling Event: August 13<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 09/16/08

Peer Reviewer: Geoff Webb

Date Completed: 09/17/08

This report summarizes the verification of analytical data for 9 soil samples. The soil samples were analyzed for total metals by Method 6020, Method 6010, and Method 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
EM-JS-06-0-1	SA	L71176-01	S	X
EM-JS-06-1-3	SA	L71176-02	S	X
EM-JS-06-5-7	SA	L71176-03	S	X
EM-JS-06-10-11	SA	L71176-04	S	X
EM-JS-07-0-1	SA	L71176-05	S	X
EM-JS-07-1-3	SA	L71176-06	S	X
EM-JS-07-5-7	SA	L71176-07	S	X
EM-JS-07-10-12	SA	L71176-08	S	X
EM-JS-07-15-16	SA	L71176-09	S	X <sup>m</sup>

Matrix: S = Soil      QC Type: SA = Sample      m = Matrix spike and/ or matrix spike duplicate.

--- = Not sampled for this parameter

Total Metals = Antimony, Arsenic, Lead, Selenium, Thallium, and Uranium (6020); Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, and Zinc (6010); Mercury (7471A)

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 5.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	
Method Blanks Calibration Blanks	No	With the exceptions noted in Table 1, target analytes were not detected in the method blanks or continuing calibration blanks.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD EM-JS-07-15-16 (Antimony, Arsenic, Lead, Mercury, Selenium, Thallium, Uranium)</li> <li>• LD EM-JS-06-0-1 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 2 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample EM-JS-07-15-16 could not be evaluated for lead because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC	N/A	
<ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: Blank Contamination and Resultant Data Qualification**

Analyte	Blank	Concentration	Qualification
Antimony	MB	0.28 mg/Kg	None. Blank contamination was less than the method reporting limit. Therefore, as the blank contamination was reported at a concentration <2.2x the analyte MDL, no qualification of data was required.
Selenium	MB	0.06 mg/Kg	

MB = Method Blank

mg/Kg = Milligrams per Kilogram

MDL = Method Detection Limit

**Table 2: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
EM-JS-07-15-16	Thallium	113.4/ <b>127.4</b> (75-125)	11.48 (20)	As the potential bias was considered to be high, the thallium and uranium result for sample EM-JS-07-15-16 was flagged with a M1.  As the uranium RPD was not within acceptance limits for sample EM-JS-07-15-16, the uranium result was also flagged with an R8.
	Uranium	85.1/ <b>240.6</b> (75-125)	<b>34.37</b> (20)	

%R = Percent Recovery

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-06-0-1

ACZ Sample ID: **L71176-01**  
 Date Sampled: 08/13/08 08:40  
 Date Received: 08/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.5		*	mg/Kg	0.2	1	08/28/08 9:09	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	10.3			mg/Kg	0.3	0.5	08/29/08 6:59	erf/rac
Barium, total (3050)	M6010B ICP	45.0			mg/Kg	0.3	2	08/28/08 1:47	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/29/08 22:30	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:47	ear/aeH
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	08/28/08 1:47	ear/aeH
Cobalt, total (3050)	M6010B ICP	18			mg/Kg	1	5	08/28/08 1:47	ear/aeH
Copper, total (3050)	M6010B ICP	4090		*	mg/Kg	1	5	08/28/08 1:47	ear/aeH
Lead, total (3050)	M6020 ICP-MS	86.10		*	mg/Kg	0.05	0.3	08/28/08 9:09	erf/rac
Manganese, total (3050)	M6010B ICP	448			mg/Kg	0.5	3	08/28/08 1:47	ear/aeH
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.04	0.2	08/30/08 22:30	jws/pmc
Molybdenum, total (3050)	M6010B ICP	1180		*	mg/Kg	1	5	08/28/08 1:47	ear/aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/28/08 1:47	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.01		*	mg/Kg	0.05	0.3	08/29/08 6:59	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	08/28/08 9:09	erf/rac
Uranium, total (3050)	M6020 ICP-MS	6.63		*	mg/Kg	0.05	0.3	08/28/08 9:09	erf/rac
Zinc, total (3050)	M6010B ICP	161		*	mg/Kg	1	5	08/28/08 1:47	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.6		*	%	0.1	0.5	08/19/08 12:40	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 1:56	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:35	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 22:26	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-06-1-3

ACZ Sample ID: **L71176-02**  
 Date Sampled: 08/13/08 08:40  
 Date Received: 08/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.0	B	*	mg/Kg	0.2	1	08/28/08 9:13	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	6.5			mg/Kg	0.3	0.5	08/29/08 7:03	erf/rac
Barium, total (3050)	M6010B ICP	40.2			mg/Kg	0.3	2	08/28/08 1:50	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	08/29/08 22:34	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:50	ear/aeH
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	08/28/08 1:50	ear/aeH
Cobalt, total (3050)	M6010B ICP	14			mg/Kg	1	5	08/28/08 1:50	ear/aeH
Copper, total (3050)	M6010B ICP	1900		*	mg/Kg	1	5	08/28/08 1:50	ear/aeH
Lead, total (3050)	M6020 ICP-MS	33.50		*	mg/Kg	0.05	0.3	08/28/08 9:13	erf/rac
Manganese, total (3050)	M6010B ICP	288			mg/Kg	0.5	3	08/28/08 1:50	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/30/08 22:38	jws/pmc
Molybdenum, total (3050)	M6010B ICP	472		*	mg/Kg	1	5	08/28/08 1:50	ear/aeH
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	08/28/08 1:50	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.58		*	mg/Kg	0.05	0.3	08/29/08 7:03	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	08/28/08 9:13	erf/rac
Uranium, total (3050)	M6020 ICP-MS	4.13		*	mg/Kg	0.05	0.3	08/28/08 9:13	erf/rac
Zinc, total (3050)	M6010B ICP	53		*	mg/Kg	1	5	08/28/08 1:50	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	08/19/08 17:01	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 2:28	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 12:58	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/23/08 23:34	lwt/bjl

Arizona license number: AZ0102

EE 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-06-5-7

ACZ Sample ID: **L71176-03**  
 Date Sampled: 08/13/08 08:45  
 Date Received: 08/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.9	B	*	mg/Kg	0.2	1	08/28/08 9:17	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	8.1			mg/Kg	0.3	0.5	08/29/08 7:08	erf/rac
Barium, total (3050)	M6010B ICP	39.2			mg/Kg	0.3	2	08/28/08 1:53	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/29/08 22:38	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	08/28/08 1:53	ear/aeH
Chromium, total (3050)	M6010B ICP	14			mg/Kg	1	5	08/28/08 1:53	ear/aeH
Cobalt, total (3050)	M6010B ICP	17			mg/Kg	1	5	08/28/08 1:53	ear/aeH
Copper, total (3050)	M6010B ICP	2650		*	mg/Kg	1	5	08/28/08 1:53	ear/aeH
Lead, total (3050)	M6020 ICP-MS	157		*	mg/Kg	0.05	0.3	08/28/08 9:17	erf/rac
Manganese, total (3050)	M6010B ICP	371			mg/Kg	0.5	3	08/28/08 1:53	ear/aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	08/30/08 22:40	jws/pmc
Molybdenum, total (3050)	M6010B ICP	309		*	mg/Kg	1	5	08/28/08 1:53	ear/aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	08/28/08 1:53	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.53		*	mg/Kg	0.05	0.3	08/29/08 7:08	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	08/28/08 9:17	erf/rac
Uranium, total (3050)	M6020 ICP-MS	5.12		*	mg/Kg	0.05	0.3	08/28/08 9:17	erf/rac
Zinc, total (3050)	M6010B ICP	110		*	mg/Kg	1	5	08/28/08 1:53	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.9		*	%	0.1	0.5	08/19/08 19:12	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 3:00	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 13:22	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 0:42	lwt/bjl

Arizona license number: AZ0102

EQ 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-06-10-11

ACZ Sample ID: **L71176-04**  
 Date Sampled: 08/13/08 08:50  
 Date Received: 08/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.2	1	08/28/08 9:21	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	15.8		*	mg/Kg	0.3	0.5	08/28/08 9:21	erf/rac
Barium, total (3050)	M6010B ICP	142			mg/Kg	0.3	2	08/28/08 1:57	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.2	1	08/29/08 22:49	aeH
Cadmium, total (3050)	M6010B ICP	1.0	B		mg/Kg	0.5	2	08/28/08 1:57	ear/aeH
Chromium, total (3050)	M6010B ICP	22			mg/Kg	1	5	08/28/08 1:57	ear/aeH
Cobalt, total (3050)	M6010B ICP	16			mg/Kg	1	5	08/28/08 1:57	ear/aeH
Copper, total (3050)	M6010B ICP	5870		*	mg/Kg	1	5	08/28/08 1:57	ear/aeH
Lead, total (3050)	M6020 ICP-MS	93.30		*	mg/Kg	0.05	0.3	08/28/08 9:21	erf/rac
Manganese, total (3050)	M6010B ICP	579			mg/Kg	0.5	3	08/28/08 1:57	ear/aeH
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/30/08 22:42	jws/pmc
Molybdenum, total (3050)	M6010B ICP	481		*	mg/Kg	1	5	08/28/08 1:57	ear/aeH
Nickel, total (3050)	M6010B ICP	19			mg/Kg	1	5	08/28/08 1:57	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	1.85		*	mg/Kg	0.05	0.3	08/29/08 7:12	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.25	B	*	mg/Kg	0.05	0.3	08/28/08 9:21	erf/rac
Uranium, total (3050)	M6020 ICP-MS	18.10		*	mg/Kg	0.05	0.3	08/28/08 9:21	erf/rac
Zinc, total (3050)	M6010B ICP	283		*	mg/Kg	1	5	08/28/08 1:57	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.1		*	%	0.1	0.5	08/19/08 21:22	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 3:31	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 13:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 1:50	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-07-0-1

ACZ Sample ID: **L71176-05**  
 Date Sampled: 08/13/08 09:14  
 Date Received: 08/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.4		*	mg/Kg	0.2	1	08/28/08 9:25	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	11.7			mg/Kg	0.3	0.5	08/29/08 7:16	erf/rac
Barium, total (3050)	M6010B ICP	96.2			mg/Kg	0.3	2	08/28/08 2:00	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.2	B		mg/Kg	0.2	1	08/29/08 22:53	aeH
Cadmium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.5	2	08/28/08 2:00	ear/aeH
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/28/08 2:00	ear/aeH
Cobalt, total (3050)	M6010B ICP	19			mg/Kg	1	5	08/28/08 2:00	ear/aeH
Copper, total (3050)	M6010B ICP	3770		*	mg/Kg	1	5	08/28/08 2:00	ear/aeH
Lead, total (3050)	M6020 ICP-MS	96.40		*	mg/Kg	0.05	0.3	08/28/08 9:25	erf/rac
Manganese, total (3050)	M6010B ICP	382			mg/Kg	0.5	3	08/28/08 2:00	ear/aeH
Mercury, total	M7471A CVAA	0.09	B		mg/Kg	0.04	0.2	08/30/08 22:44	jws/pmc
Molybdenum, total (3050)	M6010B ICP	6830		*	mg/Kg	1	5	08/28/08 2:00	ear/aeH
Nickel, total (3050)	M6010B ICP		U		mg/Kg	1	5	08/28/08 2:00	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.68		*	mg/Kg	0.05	0.3	08/29/08 7:16	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	08/28/08 9:25	erf/rac
Uranium, total (3050)	M6020 ICP-MS	6.01		*	mg/Kg	0.05	0.3	08/28/08 9:25	erf/rac
Zinc, total (3050)	M6010B ICP	122		*	mg/Kg	1	5	08/28/08 2:00	ear/aeH

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.2		*	%	0.1	0.5	08/19/08 23:33	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 4:03	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 14:09	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 2:58	lwt/bjl

Arizona license number: AZ0102

Er 9/16/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: EM-JS-07-1-3

ACZ Sample ID: **L71176-06**  
 Date Sampled: 08/13/08 09:14  
 Date Received: 08/14/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.3		*	mg/Kg	0.2	1	08/28/08 9:29	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	10.7			mg/Kg	0.3	0.5	08/29/08 7:20	erf/rac
Barium, total (3050)	M6010B ICP	77.8			mg/Kg	0.3	2	08/28/08 2:04	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/29/08 22:56	aeH
Cadmium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.5	2	08/28/08 2:04	ear/aeH
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	08/28/08 2:04	ear/aeH
Cobalt, total (3050)	M6010B ICP	17			mg/Kg	1	5	08/28/08 2:04	ear/aeH
Copper, total (3050)	M6010B ICP	4840		*	mg/Kg	1	5	08/28/08 2:04	ear/aeH
Lead, total (3050)	M6020 ICP-MS	151		*	mg/Kg	0.05	0.3	08/28/08 9:29	erf/rac
Manganese, total (3050)	M6010B ICP	556			mg/Kg	0.5	3	08/28/08 2:04	ear/aeH
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	08/30/08 22:51	jws/pmc
Molybdenum, total (3050)	M6010B ICP	1000		*	mg/Kg	1	5	08/28/08 2:04	ear/aeH
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/28/08 2:04	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.77		*	mg/Kg	0.05	0.3	08/29/08 7:20	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	08/28/08 9:29	erf/rac
Uranium, total (3050)	M6020 ICP-MS	8.97		*	mg/Kg	0.05	0.3	08/28/08 9:29	erf/rac
Zinc, total (3050)	M6010B ICP	238		*	mg/Kg	1	5	08/28/08 2:04	ear/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.3		*	%	0.1	0.5	08/20/08 1:43	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 4:34	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 14:32	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 4:05	lwt/bjl

Arizona license number: AZ0102

ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-07-5-7

ACZ Sample ID: **L71176-07**  
 Date Sampled: 08/13/08 09:19  
 Date Received: 08/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.2	1	08/28/08 9:33	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	9.1			mg/Kg	0.3	0.5	08/29/08 7:24	erf/rac
Barium, total (3050)	M6010B ICP	75.8			mg/Kg	0.3	2	08/28/08 2:07	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	08/29/08 23:00	aeH
Cadmium, total (3050)	M6010B ICP	0.9	B		mg/Kg	0.5	2	08/28/08 2:07	ear/aeH
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	08/28/08 2:07	ear/aeH
Cobalt, total (3050)	M6010B ICP	17			mg/Kg	1	5	08/28/08 2:07	ear/aeH
Copper, total (3050)	M6010B ICP	3840		*	mg/Kg	1	5	08/28/08 2:07	ear/aeH
Lead, total (3050)	M6020 ICP-MS	144		*	mg/Kg	0.05	0.3	08/28/08 9:33	erf/rac
Manganese, total (3050)	M6010B ICP	590			mg/Kg	0.5	3	08/28/08 2:07	ear/aeH
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.04	0.2	08/30/08 22:54	jws/pmc
Molybdenum, total (3050)	M6010B ICP	343		*	mg/Kg	1	5	08/28/08 2:07	ear/aeH
Nickel, total (3050)	M6010B ICP	11			mg/Kg	1	5	08/28/08 2:07	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.13		*	mg/Kg	0.05	0.3	08/29/08 7:24	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/28/08 9:33	erf/rac
Uranium, total (3050)	M6020 ICP-MS	6.49		*	mg/Kg	0.05	0.3	08/28/08 9:33	erf/rac
Zinc, total (3050)	M6010B ICP	274		*	mg/Kg	1	5	08/28/08 2:07	ear/aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.9		*	%	0.1	0.5	08/20/08 3:54	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 5:06	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 14:56	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 5:13	lwt/bjl

Arizona license number: AZ0102

*EE 9/16/08*

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: EM-JS-07-10-12

ACZ Sample ID: **L71176-08**  
 Date Sampled: 08/13/08 09:45  
 Date Received: 08/14/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.6		*	mg/Kg	0.2	1	08/28/08 9:45	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	16.1		*	mg/Kg	0.3	0.5	08/28/08 9:45	erf/rac
Barium, total (3050)	M6010B ICP	62.6			mg/Kg	0.3	2	08/28/08 2:11	ear/aeH
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	08/29/08 23:04	aeH
Cadmium, total (3050)	M6010B ICP	2.0	B		mg/Kg	0.5	2	08/28/08 2:11	ear/aeH
Chromium, total (3050)	M6010B ICP	36			mg/Kg	1	5	08/28/08 2:11	ear/aeH
Cobalt, total (3050)	M6010B ICP	25			mg/Kg	1	5	08/28/08 2:11	ear/aeH
Copper, total (3050)	M6010B ICP	5150		*	mg/Kg	1	5	08/28/08 2:11	ear/aeH
Lead, total (3050)	M6020 ICP-MS	147		*	mg/Kg	0.05	0.3	08/28/08 9:45	erf/rac
Manganese, total (3050)	M6010B ICP	645			mg/Kg	0.5	3	08/28/08 2:11	ear/aeH
Mercury, total	M7471A CVA	0.23			mg/Kg	0.04	0.2	08/30/08 22:56	jws/pmc
Molybdenum, total (3050)	M6010B ICP	5610		*	mg/Kg	1	5	08/28/08 2:11	ear/aeH
Nickel, total (3050)	M6010B ICP	16			mg/Kg	1	5	08/28/08 2:11	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	3.96		*	mg/Kg	0.05	0.3	08/29/08 7:28	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	08/28/08 9:45	erf/rac
Uranium, total (3050)	M6020 ICP-MS	9.21		*	mg/Kg	0.05	0.3	08/28/08 9:45	erf/rac
Zinc, total (3050)	M6010B ICP	393		*	mg/Kg	1	5	08/28/08 2:11	ear/aeH

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.6		*	%	0.1	0.5	08/20/08 6:04	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 5:38	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 15:19	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 6:21	lwt/bjl

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ER 9/16/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: EM-JS-07-15-16

ACZ Sample ID: **L71176-09**  
 Date Sampled: 08/13/08 09:45  
 Date Received: 08/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.8		*	mg/Kg	0.2	1	08/28/08 9:49	erf/rac
Arsenic, total (3050)	M6020 ICP-MS	17.8		*	mg/Kg	0.3	0.5	08/28/08 9:49	erf/rac
Barium, total (3050)	M6010B ICP	118			mg/Kg	0.3	2	08/28/08 2:14	ear/aeH
Beryllium, total (3050)	M6010B ICP	2.1			mg/Kg	0.2	1	08/29/08 23:08	aeH
Cadmium, total (3050)	M6010B ICP	6.0			mg/Kg	0.5	2	08/28/08 2:14	ear/aeH
Chromium, total (3050)	M6010B ICP	45			mg/Kg	1	5	08/28/08 2:14	ear/aeH
Cobalt, total (3050)	M6010B ICP	19			mg/Kg	1	5	08/28/08 2:14	ear/aeH
Copper, total (3050)	M6010B ICP	6910		*	mg/Kg	1	5	08/28/08 2:14	ear/aeH
Lead, total (3050)	M6020 ICP-MS	120		*	mg/Kg	0.05	0.3	08/28/08 9:49	erf/rac
Manganese, total (3050)	M6010B ICP	475			mg/Kg	0.5	3	08/28/08 2:14	ear/aeH
Mercury, total	M7471A CVAA	0.13	B		mg/Kg	0.04	0.2	08/30/08 22:58	jws/pmc
Molybdenum, total (3050)	M6010B ICP	1050		*	mg/Kg	1	5	08/28/08 2:14	ear/aeH
Nickel, total (3050)	M6010B ICP	12			mg/Kg	1	5	08/28/08 2:14	ear/aeH
Selenium, total (3050)	M6020 ICP-MS	2.45		*	mg/Kg	0.05	0.3	08/29/08 7:32	erf/rac
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	08/28/08 9:49	erf/rac
Uranium, total (3050)	M6020 ICP-MS	36.90		*	mg/Kg	0.05	0.3	08/28/08 9:49	erf/rac
Zinc, total (3050)	M6010B ICP	386		*	mg/Kg	1	5	08/28/08 2:14	ear/aeH

M1  
M1, R8

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	79.6		*	%	0.1	0.5	08/20/08 8:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/19/08 6:09	bjl
Digestion - Hot Plate	M3050B ICP-MS							08/24/08 15:43	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				08/24/08 7:29	lwt/bjl

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EQ 9/16/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71473                      Sampling Event: August 27<sup>th</sup>, 2008  
 Sample-specific Parameter Review? **Yes**                      Laboratory Performance Parameters? **No**  
 Data Reviewer: Liz Kraak                      Date Completed: 10/06/08  
 Peer Reviewer: Geoff Webb                      Date Completed: 10/07/08

This report summarizes the verification of analytical data for 14 soil samples. The soil samples were analyzed for total metals by methods 6020, 6010B, and 7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
CP-JS-04-0-1	SA	L71473-01	S	X <sup>m</sup>
CP-JS-04-1-3	SA	L71473-02	S	X
CP-JS-04-5-7	SA	L71473-03	S	X
CP-JS-04-10-12	SA	L71473-04	S	X
CP-JS-04-15-17	SA	L71473-05	S	X
CP-JS-04-20	SA	L71473-06	S	X
OD-JS-03-0-1	SA	L71473-07	S	X
OD-JS-03-1-3	SA	L71473-08	S	X
OD-JS-03-1-3D	FD	L71473-09	S	X
CS-JS-05-0-1	SA	L71473-10	S	X
CS-JS-05-1-3	SA	L71473-11	S	X
CS-JS-05-1-3D	FD	L71473-12	S	X
CS-JS-06-0-1	SA	L71473-13	S	X
CS-JS-06-1-3	SA	L71473-14	S	X <sup>m</sup>

Matrix: S = Soil                      QC Type: SA = Sample                      m = Matrix spike and/ or matrix spike duplicate.

--- = Not analyzed for this parameter

Total Metals = Antimony, Arsenic, Barium, Beryllium, cadmium, Chromium, Cobalt, Copper, Lead, manganese, Mercury, Molybdenum, Nickel, Selenium, Thallium, Uranium, and Zinc

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.  
  X   Data are usable with qualification (noted below).  
 \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 2.7°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
<b>Matrix QC</b> <ul style="list-style-type: none"> <li>MS/MSD CS-JS-06-1-3 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium) CP-JS-04-01 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Manganese, Mercury, Molybdenum, Nickel)</li> <li>LD CP-JS-04-1-3 (Antimony, Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Lead, Manganese, Molybdenum, Nickel, Selenium, Thallium, Uranium) CS-JS-06-1-3 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The MS/MSD recoveries for sample CP-JS-04-01 could not be evaluated for total manganese and total molybdenum because the results in the native sample were greater than four times the concentration of the spike added during digestion. Since the sample concentrations are so much greater than the spike added, the MS/MSD recoveries are not considered to be a representative measure of accuracy. Further action or qualification was not necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for total metals and percent solids. With the exceptions noted in Table 2, all of the results met the evaluation criteria.</p>
<b>Method QC</b> <ul style="list-style-type: none"> <li>Serial Dilution N/A</li> <li>Internal Standards</li> </ul>	N/A	
	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
<b>Field QC</b> <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate OD-JS-03-1-3D CS-JS-05-1-3D</li> <li>Field Blank N/A</li> </ul>	Yes	The field duplicate pairs OD-JS-03-1-3/ OD-JS-03-1-3D and CS-JS-05-1-3/ OD-JS-05-1-3D met the applicable evaluation criteria. Data qualification was not required.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.

Review Parameter	Criteria Met?	Comments
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery and RPD Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
CS-JS-06-1-3 WG251542	Total Antimony	<b>27.3/ 29.1</b> (75-125)	5.54 (20)	As the potential bias was considered to be low, the total antimony and total barium result was flagged with a M2.
CS-JS-06-1-3 WG251755		<b>30.3/ 30.1</b> (75-125)	0.66 (20)	
CP-JS-04-01	Total Barium	<b>54.7/ 45.2</b> (75-125)	2.52 (20)	
	Total Chromium	11.3/ 88.7 (75-125)	<b>20.54</b> (20)	As the total chromium RPD was not within acceptance limits, the total chromium result was flagged with an R8.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

**Table 2: Laboratory Duplicate RPD Outliers and Resultant Data Qualification**

Sample	Analyte	RPD (Limit)	Qualification
CP-JS-04-1-3	Total Chromium	<b>38.7</b> (20)	As the listed analytical results RPDs were not within acceptance limits, the total chromium, total selenium, total thallium, and total uranium results for sample CP-JS-04-1-3 were flagged with an R8.
CP-JS-04-1-3 WG251542	Total Selenium	<b>47.7</b> (20)	
CP-JS-04-1-3 WG251755		<b>46.4</b> (20)	
CP-JS-04-1-3 WG251755	Total Thallium	<b>24</b> (20)	
CP-JS-04-1-3 WG251542	Total Uranium	<b>22.1</b> (20)	
CP-JS-04-1-3 WG251755		<b>23.2</b> (20)	

RPD – relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-JS-04-0-1

ACZ Sample ID: L71473-01  
Date Sampled: 08/27/08 10:25  
Date Received: 08/28/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	09/11/08 19:04	rac
Arsenic, total (3050)	M6020 ICP-MS	4.5		*	mg/Kg	0.3	0.5	09/11/08 19:04	rac
Barium, total (3050)	M6010B ICP	165		*	mg/Kg	0.3	2	09/05/08 21:14	ear MZ
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	09/05/08 21:14	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:14	ear
Chromium, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	09/05/08 21:14	ear R8
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	09/05/08 21:14	ear
Copper, total (3050)	M6010B ICP	1710			mg/Kg	1	5	09/17/08 10:15	aeh
Lead, total (3050)	M6020 ICP-MS	14.30			mg/Kg	0.05	0.3	09/11/08 19:04	rac
Manganese, total (3050)	M6010B ICP	396		*	mg/Kg	0.5	3	09/05/08 21:14	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 14:23	jws/nek
Molybdenum, total (3050)	M6010B ICP	223		*	mg/Kg	1	5	09/05/08 21:14	ear
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:14	ear
Selenium, total (3050)	M6020 ICP-MS	1.26		*	mg/Kg	0.05	0.3	09/11/08 19:04	rac
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	09/11/08 19:04	rac ER 10/06/08
Uranium, total (3050)	M6020 ICP-MS	4.96		*	mg/Kg	0.05	0.3	09/11/08 19:04	rac
Zinc, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	09/17/08 10:15	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	08/29/08 20:08	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 11:35	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 6:54	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:27	lwt

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-04-1-3

ACZ Sample ID: **L71473-02**  
 Date Sampled: 08/27/08 10:25  
 Date Received: 08/28/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	09/11/08 19:18	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	0.5	09/11/08 19:18	rac
Barium, total (3050)	M6010B ICP	172		*	mg/Kg	0.3	2	09/05/08 21:36	ear
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	09/05/08 21:36	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:36	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 21:36	ear R8
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	09/05/08 21:36	ear
Copper, total (3050)	M6010B ICP	684			mg/Kg	1	5	09/17/08 10:18	aeh
Lead, total (3050)	M6020 ICP-MS	4.55			mg/Kg	0.05	0.3	09/11/08 19:18	rac
Manganese, total (3050)	M6010B ICP	469		*	mg/Kg	0.5	3	09/05/08 21:36	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 14:30	jws/nek
Molybdenum, total (3050)	M6010B ICP	24		*	mg/Kg	1	5	09/05/08 21:36	ear
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:36	ear
Selenium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	09/11/08 19:18	rac R8
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	09/11/08 19:18	rac R8
Uranium, total (3050)	M6020 ICP-MS	5.03		*	mg/Kg	0.05	0.3	09/11/08 19:18	rac R8
Zinc, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	09/17/08 10:18	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	08/30/08 2:16	brd/lwt

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 11:44	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 7:12	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:32	lwt

Arizona license number: AZ0102

EQ 10/06/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CP-JS-04-5-7

ACZ Sample ID: L71473-03  
Date Sampled: 08/27/08 10:33  
Date Received: 08/28/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	09/11/08 19:44	rac
Arsenic, total (3050)	M6020 ICP-MS	8.7		*	mg/Kg	0.3	0.5	09/11/08 19:44	rac
Barium, total (3050)	M6010B ICP	183		*	mg/Kg	0.3	2	09/05/08 21:43	ear
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	09/05/08 21:43	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:43	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 21:43	ear
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	09/05/08 21:43	ear
Copper, total (3050)	M6010B ICP	1400			mg/Kg	1	5	09/17/08 10:21	aeh
Lead, total (3050)	M6020 ICP-MS	10.90			mg/Kg	0.05	0.3	09/11/08 19:44	rac
Manganese, total (3050)	M6010B ICP	343		*	mg/Kg	0.5	3	09/05/08 21:43	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 14:32	jws/nek
Molybdenum, total (3050)	M6010B ICP	202		*	mg/Kg	1	5	09/05/08 21:43	ear
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 21:43	ear
Selenium, total (3050)	M6020 ICP-MS	0.76		*	mg/Kg	0.05	0.3	09/11/08 19:44	rac
Thallium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	09/11/08 19:44	rac
Uranium, total (3050)	M6020 ICP-MS	16.00		*	mg/Kg	0.05	0.3	09/11/08 19:44	rac
Zinc, total (3050)	M6010B ICP	63		*	mg/Kg	1	5	09/17/08 10:21	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	08/30/08 8:24	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 11:53	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 7:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:38	lwt

Arizona license number: AZ0102

ER 10/06/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-04-10-12

ACZ Sample ID: **L71473-04**  
 Date Sampled: 08/27/08 10:40  
 Date Received: 08/28/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	09/11/08 19:51	rac
Arsenic, total (3050)	M6020 ICP-MS	2.3		*	mg/Kg	0.3	0.5	09/11/08 19:51	rac
Barium, total (3050)	M6010B ICP	106		*	mg/Kg	0.3	2	09/05/08 21:47	ear
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	.1	09/05/08 21:47	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:47	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 21:47	ear
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	09/05/08 21:47	ear
Copper, total (3050)	M6010B ICP	1080			mg/Kg	1	5	09/17/08 10:24	aeh
Lead, total (3050)	M6020 ICP-MS	5.36			mg/Kg	0.05	0.3	09/11/08 19:51	rac
Manganese, total (3050)	M6010B ICP	347		*	mg/Kg	0.5	3	09/05/08 21:47	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 14:34	jws/nek
Molybdenum, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	09/05/08 21:47	ear
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 21:47	ear
Selenium, total (3050)	M6020 ICP-MS	0.56		*	mg/Kg	0.05	0.3	09/11/08 19:51	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	09/11/08 19:51	rac
Uranium, total (3050)	M6020 ICP-MS	8.72		*	mg/Kg	0.05	0.3	09/11/08 19:51	rac
Zinc, total (3050)	M6010B ICP	71		*	mg/Kg	1	5	09/17/08 10:24	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.4		*	%	0.1	0.5	08/30/08 14:32	brd/lwt

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:02	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 7:48	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:43	lwt

Arizona license number: AZ0102

ER 10/06/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CP-JS-04-15-17

ACZ Sample ID: L71473-05  
 Date Sampled: 08/27/08 10:52  
 Date Received: 08/28/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	09/11/08 19:57	rac
Arsenic, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.3	0.5	09/11/08 19:57	rac
Barium, total (3050)	M6010B ICP	108		*	mg/Kg	0.3	2	09/05/08 21:51	ear
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	09/05/08 21:51	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:51	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 21:51	ear
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:51	ear
Copper, total (3050)	M6010B ICP	1760			mg/Kg	1	5	09/17/08 10:34	aeh
Lead, total (3050)	M6020 ICP-MS	7.04			mg/Kg	0.05	0.3	09/11/08 19:57	rac
Manganese, total (3050)	M6010B ICP	374		*	mg/Kg	0.5	3	09/05/08 21:51	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 14:36	jws/nek
Molybdenum, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	09/05/08 21:51	ear
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 21:51	ear
Selenium, total (3050)	M6020 ICP-MS	0.48		*	mg/Kg	0.05	0.3	09/11/08 19:57	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	09/11/08 19:57	rac
Uranium, total (3050)	M6020 ICP-MS	7.39		*	mg/Kg	0.05	0.3	09/11/08 19:57	rac
Zinc, total (3050)	M6010B ICP	59		*	mg/Kg	1	5	09/17/08 10:34	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.2		*	%	0.1	0.5	08/30/08 20:40	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:11	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 8:06	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:48	lwt

Arizona license number: AZ0102

ER 10/06/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CP-JS-04-20

ACZ Sample ID: **L71473-06**  
 Date Sampled: 08/27/08 11:02  
 Date Received: 08/28/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	09/11/08 20:04	rac
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	0.5	09/11/08 20:04	rac
Barium, total (3050)	M6010B ICP	169		*	mg/Kg	0.3	2	09/05/08 21:55	ear
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	09/05/08 21:55	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:55	ear
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 21:55	ear
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	09/05/08 21:55	ear
Copper, total (3050)	M6010B ICP	582			mg/Kg	1	5	09/17/08 10:38	aeh
Lead, total (3050)	M6020 ICP-MS	4.12			mg/Kg	0.05	0.3	09/11/08 20:04	rac
Manganese, total (3050)	M6010B ICP	350		*	mg/Kg	0.5	3	09/05/08 21:55	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:31	jws/nek
Molybdenum, total (3050)	M6010B ICP	24		*	mg/Kg	1	5	09/05/08 21:55	ear
Nickel, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:55	ear
Selenium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	09/11/08 20:04	rac
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	09/11/08 20:04	rac
Uranium, total (3050)	M6020 ICP-MS	6.96		*	mg/Kg	0.05	0.3	09/11/08 20:04	rac
Zinc, total (3050)	M6010B ICP	29		*	mg/Kg	1	5	09/17/08 10:38	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.5		*	%	0.1	0.5	08/31/08 2:48	brd/lwt

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:20	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 8:24	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:53	lwt

Arizona license number: **AZ0102**

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# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: OD-JS-03-0-1

ACZ Sample ID: L71473-07  
Date Sampled: 08/27/08 11:30  
Date Received: 08/28/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	09/14/08 8:36	erf
Arsenic, total (3050)	M6020 ICP-MS	10.6		*	mg/Kg	0.3	0.5	09/14/08 8:36	erf
Barium, total (3050)	M6010B ICP	118		*	mg/Kg	0.3	2	09/05/08 21:58	ear
Beryllium, total (3050)	M6010B ICP	0.3	B	*	mg/Kg	0.2	1	09/05/08 21:58	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 21:58	ear
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:58	ear
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	09/05/08 21:58	ear
Copper, total (3050)	M6010B ICP	1470			mg/Kg	1	5	09/17/08 10:41	aeh
Lead, total (3050)	M6020 ICP-MS	19.30		*	mg/Kg	0.05	0.3	09/14/08 8:36	erf
Manganese, total (3050)	M6010B ICP	236		*	mg/Kg	0.5	3	09/05/08 21:58	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:34	jws/nek
Molybdenum, total (3050)	M6010B ICP	97		*	mg/Kg	1	5	09/05/08 21:58	ear
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 21:58	ear
Selenium, total (3050)	M6020 ICP-MS	0.85		*	mg/Kg	0.05	0.3	09/14/08 8:36	erf
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	09/14/08 8:36	erf
Uranium, total (3050)	M6020 ICP-MS	4.32		*	mg/Kg	0.05	0.3	09/14/08 8:36	erf
Zinc, total (3050)	M6010B ICP	111		*	mg/Kg	1	5	09/17/08 10:41	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.4		*	%	0.1	0.5	08/31/08 8:56	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:30	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 8:42	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 14:59	lwt

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# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: OD-JS-03-1-3

ACZ Sample ID: L71473-08  
Date Sampled: 08/27/08 11:30  
Date Received: 08/28/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	09/11/08 20:17	rac
Arsenic, total (3050)	M6020 ICP-MS	6.4		*	mg/Kg	0.3	0.5	09/11/08 20:17	rac
Barium, total (3050)	M6010B ICP	114		*	mg/Kg	0.3	2	09/05/08 22:02	ear
Beryllium, total (3050)	M6010B ICP		U	*	mg/Kg	0.2	1	09/05/08 22:02	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 22:02	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 22:02	ear
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	09/05/08 22:02	ear
Copper, total (3050)	M6010B ICP	1510			mg/Kg	1	5	09/17/08 10:44	aeh
Lead, total (3050)	M6020 ICP-MS	10.60			mg/Kg	0.05	0.3	09/11/08 20:17	rac
Manganese, total (3050)	M6010B ICP	203		*	mg/Kg	0.5	3	09/05/08 22:02	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.05	0.2	09/17/08 15:36	jws/nek
Molybdenum, total (3050)	M6010B ICP	74		*	mg/Kg	1	5	09/05/08 22:02	ear
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	09/05/08 22:02	ear
Selenium, total (3050)	M6020 ICP-MS	0.72		*	mg/Kg	0.05	0.3	09/11/08 20:17	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	09/11/08 20:17	rac
Uranium, total (3050)	M6020 ICP-MS	3.31		*	mg/Kg	0.05	0.3	09/11/08 20:17	rac
Zinc, total (3050)	M6010B ICP	71		*	mg/Kg	1	5	09/17/08 10:44	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.1		*	%	0.1	0.5	08/31/08 15:04	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:39	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 9:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:04	lwt

Arizona license number: AZ0102

EQ 10/06/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: OD-JS-03-1-3D

ACZ Sample ID: L71473-09  
 Date Sampled: 08/27/08 11:30  
 Date Received: 08/28/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	09/11/08 20:24	rac
Arsenic, total (3050)	M6020 ICP-MS	2.9		*	mg/Kg	0.3	0.5	09/11/08 20:24	rac
Barium, total (3050)	M6010B ICP	87.4		*	mg/Kg	0.3	2	09/05/08 22:06	ear
Beryllium, total (3050)	M6010B ICP		U	*	mg/Kg	0.2	1	09/05/08 22:06	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 22:06	ear
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 22:06	ear
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	09/05/08 22:06	ear
Copper, total (3050)	M6010B ICP	1800			mg/Kg	1	5	09/17/08 10:47	aeh
Lead, total (3050)	M6020 ICP-MS	14.90			mg/Kg	0.05	0.3	09/11/08 20:24	rac
Manganese, total (3050)	M6010B ICP	186		*	mg/Kg	0.5	3	09/05/08 22:06	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:38	jws/nek
Molybdenum, total (3050)	M6010B ICP	74		*	mg/Kg	1	5	09/05/08 22:06	ear
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	09/05/08 22:06	ear
Selenium, total (3050)	M6020 ICP-MS	0.78		*	mg/Kg	0.05	0.3	09/11/08 20:24	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	09/11/08 20:24	rac
Uranium, total (3050)	M6020 ICP-MS	3.89		*	mg/Kg	0.05	0.3	09/11/08 20:24	rac
Zinc, total (3050)	M6010B ICP	76		*	mg/Kg	1	5	09/17/08 10:47	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.9		*	%	0.1	0.5	08/31/08 21:12	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:48	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 9:18	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:09	lwt

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EQ 10/06/08

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CS-JS-05-0-1

ACZ Sample ID: L71473-10  
Date Sampled: 08/27/08 13:28  
Date Received: 08/28/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	09/11/08 20:30	rac
Arsenic, total (3050)	M6020 ICP-MS	3.9		*	mg/Kg	0.3	0.5	09/11/08 20:30	rac
Barium, total (3050)	M6010B ICP	294		*	mg/Kg	0.3	2	09/05/08 22:10	ear
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	09/05/08 22:10	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 22:10	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 22:10	ear
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	09/05/08 22:10	ear
Copper, total (3050)	M6010B ICP	116			mg/Kg	1	5	09/17/08 10:51	aeh
Lead, total (3050)	M6020 ICP-MS	38.10			mg/Kg	0.05	0.3	09/11/08 20:30	rac
Manganese, total (3050)	M6010B ICP	515		*	mg/Kg	0.5	3	09/05/08 22:10	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:40	jws/nek
Molybdenum, total (3050)	M6010B ICP	19		*	mg/Kg	1	5	09/05/08 22:10	ear
Nickel, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	09/05/08 22:10	ear
Selenium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	09/11/08 20:30	rac
Thallium, total (3050)	M6020 ICP-MS	0.36		*	mg/Kg	0.05	0.3	09/11/08 20:30	rac
Uranium, total (3050)	M6020 ICP-MS	5.08		*	mg/Kg	0.05	0.3	09/11/08 20:30	rac
Zinc, total (3050)	M6010B ICP	134		*	mg/Kg	1	5	09/17/08 10:51	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.8		*	%	0.1	0.5	09/01/08 3:20	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 12:57	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 9:36	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:14	lwt

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ER 10/06/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: CS-JS-05-1-3

ACZ Sample ID: L71473-11  
 Date Sampled: 08/27/08 13:28  
 Date Received: 08/28/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	09/11/08 20:37	rac
Arsenic, total (3050)	M6020 ICP-MS	14.6		*	mg/Kg	0.3	0.5	09/11/08 20:37	rac
Barium, total (3050)	M6010B ICP	103		*	mg/Kg	0.3	2	09/05/08 22:21	ear
Beryllium, total (3050)	M6010B ICP	0.6	B	*	mg/Kg	0.2	1	09/05/08 22:21	ear
Cadmium, total (3050)	M6010B ICP	1.7	B	*	mg/Kg	0.5	2	09/05/08 22:21	ear
Chromium, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	09/05/08 22:21	ear
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	09/05/08 22:21	ear
Copper, total (3050)	M6010B ICP	148			mg/Kg	1	5	09/17/08 10:54	aeh
Lead, total (3050)	M6020 ICP-MS	280		*	mg/Kg	0.1	0.5	09/14/08 8:43	erf
Manganese, total (3050)	M6010B ICP	538		*	mg/Kg	0.5	3	09/05/08 22:21	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:43	jws/nek
Molybdenum, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	09/05/08 22:21	ear
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	09/05/08 22:21	ear
Selenium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	09/11/08 20:37	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B	*	mg/Kg	0.05	0.3	09/11/08 20:37	rac
Uranium, total (3050)	M6020 ICP-MS	8.01		*	mg/Kg	0.05	0.3	09/11/08 20:37	rac
Zinc, total (3050)	M6010B ICP	502		*	mg/Kg	1	5	09/17/08 10:54	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.9		*	%	0.1	0.5	09/01/08 9:28	brd/lwt

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 13:06	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 9:54	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:20	lwt

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### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CS-JS-05-1-3D

ACZ Sample ID: L71473-12  
 Date Sampled: 08/27/08 13:28  
 Date Received: 08/28/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	09/11/08 20:43	rac
Arsenic, total (3050)	M6020 ICP-MS	14.5		*	mg/Kg	0.3	0.5	09/11/08 20:43	rac
Barium, total (3050)	M6010B ICP	147		*	mg/Kg	0.3	2	09/05/08 22:25	ear
Beryllium, total (3050)	M6010B ICP	0.6	B	*	mg/Kg	0.2	1	09/05/08 22:25	ear
Cadmium, total (3050)	M6010B ICP	1.7	B	*	mg/Kg	0.5	2	09/05/08 22:25	ear
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	09/05/08 22:25	ear
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 22:25	ear
Copper, total (3050)	M6010B ICP	120			mg/Kg	1	5	09/17/08 10:57	aeh
Lead, total (3050)	M6020 ICP-MS	212			mg/Kg	0.05	0.3	09/11/08 20:43	rac
Manganese, total (3050)	M6010B ICP	495		*	mg/Kg	0.5	3	09/05/08 22:25	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:45	jws/nek
Molybdenum, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	09/05/08 22:25	ear
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 22:25	ear
Selenium, total (3050)	M6020 ICP-MS	0.37		*	mg/Kg	0.05	0.3	09/11/08 20:43	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	09/11/08 20:43	rac
Uranium, total (3050)	M6020 ICP-MS	8.81		*	mg/Kg	0.05	0.3	09/11/08 20:43	rac
Zinc, total (3050)	M6010B ICP	417		*	mg/Kg	1	5	09/17/08 10:57	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.9		*	%	0.1	0.5	09/01/08 15:36	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 13:15	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 10:12	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:25	lwt

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**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: CS-JS-06-0-1

ACZ Sample ID: **L71473-13**  
 Date Sampled: 08/27/08 13:48  
 Date Received: 08/28/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	09/11/08 21:03	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	0.5	09/11/08 21:03	rac
Barium, total (3050)	M6010B ICP	213		*	mg/Kg	0.3	2	09/05/08 22:28	ear
Beryllium, total (3050)	M6010B ICP	0.4	B	*	mg/Kg	0.2	1	09/05/08 22:28	ear
Cadmium, total (3050)	M6010B ICP		U	*	mg/Kg	0.5	2	09/05/08 22:28	ear
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	09/05/08 22:28	ear
Cobalt, total (3050)	M6010B ICP	16		*	mg/Kg	1	5	09/05/08 22:28	ear
Copper, total (3050)	M6010B ICP	175			mg/Kg	1	5	09/17/08 11:01	aeh
Lead, total (3050)	M6020 ICP-MS	30.50			mg/Kg	0.05	0.3	09/11/08 21:03	rac
Manganese, total (3050)	M6010B ICP	501		*	mg/Kg	0.5	3	09/05/08 22:28	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:48	jws/nek
Molybdenum, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	09/05/08 22:28	ear
Nickel, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	09/05/08 22:28	ear
Selenium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	09/11/08 21:03	rac
Thallium, total (3050)	M6020 ICP-MS	0.49		*	mg/Kg	0.05	0.3	09/11/08 21:03	rac
Uranium, total (3050)	M6020 ICP-MS	3.15		*	mg/Kg	0.05	0.3	09/11/08 21:03	rac
Zinc, total (3050)	M6010B ICP	168		*	mg/Kg	1	5	09/17/08 11:01	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.4		*	%	0.1	0.5	09/01/08 21:44	brd/lwt

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 13:24	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 10:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:30	lwt

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### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: CS-JS-06-1-3

ACZ Sample ID: L71473-14  
 Date Sampled: 08/27/08 13:53  
 Date Received: 08/28/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	09/11/08 21:10	rac
Arsenic, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.3	0.5	09/11/08 21:10	rac
Barium, total (3050)	M6010B ICP	168		*	mg/Kg	0.3	2	09/05/08 22:32	ear
Beryllium, total (3050)	M6010B ICP	0.5	B	*	mg/Kg	0.2	1	09/05/08 22:32	ear
Cadmium, total (3050)	M6010B ICP	1.0	B	*	mg/Kg	0.5	2	09/05/08 22:32	ear
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	09/05/08 22:32	ear
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	09/05/08 22:32	ear
Copper, total (3050)	M6010B ICP	149			mg/Kg	1	5	09/17/08 11:04	aeh
Lead, total (3050)	M6020 ICP-MS	3.50			mg/Kg	0.05	0.3	09/11/08 21:10	rac
Manganese, total (3050)	M6010B ICP	373		*	mg/Kg	0.5	3	09/05/08 22:32	ear
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	09/17/08 15:50	jws/nek
Molybdenum, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	09/05/08 22:32	ear
Nickel, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	09/05/08 22:32	ear
Selenium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	09/11/08 21:10	rac
Thallium, total (3050)	M6020 ICP-MS	0.50		*	mg/Kg	0.05	0.3	09/11/08 21:10	rac
Uranium, total (3050)	M6020 ICP-MS	2.88		*	mg/Kg	0.05	0.3	09/11/08 21:10	rac
Zinc, total (3050)	M6010B ICP	257		*	mg/Kg	1	5	09/17/08 11:04	aeh

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#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.9		*	%	0.1	0.5	09/02/08 3:52	brd/lwt

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				08/29/08 13:34	brd
Digestion - Hot Plate	M3050B ICP-MS							09/15/08 10:48	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				09/02/08 15:35	lwt

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## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L71687

Sampling Event: August 5<sup>th</sup>, 12<sup>th</sup>, & 13<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 10/06/08

Peer Reviewer: Geoff Webb

Date Completed: 10/07/08

This report summarizes the verification of analytical data for 6 soil samples. The soil samples were analyzed for total lead and hexavalent chromium by methods 6010B and M7196A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses	
				Total Lead	Hexavalent Chromium
C-JS-05-0-1	SA	L71687-01	S	X	---
C-JS-05-1-3	SA	L71687-02	S	X	---
EM-JS-07-10-12	SA	L71687-03	S	---	X
EM-JS-07-15-16	SA	L71687-04	S	---	X
EM-JS-08-5-7	SA	L71687-05	S	X <sup>m</sup>	---
EM-JS-08-10-12	SA	L71687-06	S	X	X <sup>m</sup>

Matrix: S = Soil

QC Type: SA = Sample

FD = Field Duplicate

m = Matrix spike and/ or matrix spike duplicate.

--- = Not analyzed for this parameter

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.
- X   Data are usable with qualification (noted below).
- \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 5.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p> <p>The laboratory noted that this report is for additional analysis of the samples previously reported in data packages L71009, L71176 and L71134.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD EM-JS-08-5-7 (Total Lead) EM-JS-08-10-12 (Hexavalent Chromium)</li> <li>LD EM-JS-07-10-12 (Hexavalent Chromium)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for hexavalent. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>Field Duplicate</li> </ul>		
<ul style="list-style-type: none"> <li>Field Blank</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
EM-JS-08-10-12	Hexavalent Chromium	0 (75-125)	NA	As the potential bias was considered to be low, the hexavalent chromium result was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

**FMI Gold & Copper - Sierrita**Project ID: OJO7R9  
Sample ID: C-JS-05-0-1ACZ Sample ID: **L71687-01**  
Date Sampled: 08/05/08 11:08  
Date Received: 09/09/08  
Sample Matrix: Soil

## Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6020 ICP-MS		U		mg/L	0.0001	0.0005	09/23/08 18:56	rac

## Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							09/16/08 6:07	lwt/bji

**Note: This report is for additional analysis of the sample previously reported as ACZ project L71009-10.**

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# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJO7R9  
Sample ID: C-JS-05-1-3

ACZ Sample ID: L71687-02  
Date Sampled: 08/05/08 11:08  
Date Received: 09/09/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6020 ICP-MS	0.0010			mg/L	0.0001	0.0005	09/23/08 19:05	rac

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							09/16/08 7:15	lwt/bjl

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71009-11.

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**FMI Gold & Copper - Sierrita**

Project ID: OJO7R9  
Sample ID: EM-JS-07-10-12

ACZ Sample ID: **L71687-03**  
Date Sampled: 08/13/08 09:45  
Date Received: 09/09/08  
Sample Matrix: Soil

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A							09/10/08 8:00	lwt

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		U	*	mg/Kg	1	4	09/11/08 17:01	kah

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71176-08.

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### FMI Gold & Copper - Sierrita

Project ID: OJO7R9  
Sample ID: EM-JS-07-15-16

ACZ Sample ID: **L71687-04**  
Date Sampled: 08/13/08 09:45  
Date Received: 09/09/08  
Sample Matrix: Soil

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A							09/10/08 10:00	lwt

#### Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		U	*	mg/Kg	1	5	09/11/08 17:09	kah

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71176-09.

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**FMI Gold & Copper - Sierrita**

Project ID: OJO7R9  
Sample ID: EM-JS-08-5-7

ACZ Sample ID: **L71687-05**  
Date Sampled: 08/12/08 13:33  
Date Received: 09/09/08  
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6020 ICP-MS		U		mg/L	0.0001	0.0005	09/23/08 19:10	rac

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							09/16/08 8:22	lwt/bjl

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71134-16.

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**FMI Gold & Copper - Sierrita**

Project ID: OJO7R9  
Sample ID: EM-JS-08-10-12

ACZ Sample ID: **L71687-06**  
Date Sampled: 08/12/08 13:56  
Date Received: 09/09/08  
Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6020 ICP-MS	0.0002	B		mg/L	0.0001	0.0005	09/23/08 19:32	rac

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A							09/10/08 11:00	lwt
Synthetic Precip. Leaching Procedure	M1312							09/16/08 11:45	lwt/bjl

Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		U	*	mg/Kg	1	4	09/11/08 17:12	kah

MZ

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71134-17.

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Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 5.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p> <p>The laboratory noted that this report is for additional analysis of the samples previously reported in data package L71084.</p>
Holding Times	No	The laboratory noted that the hexavalent chromium analysis for samples RA-JS-02-5-7 and RA-JS-02-5-7D was performed past holding time. Therefore, the hexavalent chromium results for samples RA-JS-02-5-7 and RA-JS-02-5-7D were flagged with H1.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD RA-JS-02-5-7 (Hexavalent Chromium)</li> <li>LD RA-JS-02-5-7D (Hexavalent Chromium) RA-JS-02-1-3 (Total Lead)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for hexavalent chromium and total lead. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution</li> </ul> N/A	N/A	
<ul style="list-style-type: none"> <li>Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank</li> </ul> N/A <ul style="list-style-type: none"> <li>Field Duplicate RA-JS-02-5-7D</li> <li>Field Blank</li> </ul> N/A	Yes	The field duplicate pair RA-JS-02-5-7/ RA-JS-02-5-7D met the applicable evaluation criteria. Data qualification was not required.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	N/A	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

<b>Sample</b>	<b>Analyte</b>	<b>%Rs (Limits)</b>	<b>RPD (Limit)</b>	<b>Qualification</b>
RA-JS-02-5-7	Hexavalent Chromium	37.5 (75-125)	NA	As the potential bias was considered to be low, the hexavalent chromium result was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: RA-JS-02-1-3

ACZ Sample ID: L71753-01  
Date Sampled: 08/11/08 10:45  
Date Received: 09/11/08  
Sample Matrix: Soil

#### Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M3010A ICP							09/20/08 0:25	jws

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6010B ICP		U	*	mg/L	0.04	0.2	09/22/08 23:10	ear

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							09/16/08 12:52	lwt/bjl

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71084-03.

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ER 10/06/08

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: RA-JS-02-5-7

ACZ Sample ID: L71753-02  
Date Sampled: 08/11/08 12:50  
Date Received: 09/11/08  
Sample Matrix: Soil

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A			*				09/24/08 7:00	bjl

#### Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		UH	*	mg/Kg	2	8	09/26/08 12:20	kah

MZ, HI

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71084-04.

Arizona license number: AZ0102

EL 10/06/08

# ACZ Laboratories, Inc.

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: RA-JS-02-5-7D

ACZ Sample ID: L71753-03  
Date Sampled: 08/11/08 12:50  
Date Received: 09/11/08  
Sample Matrix: Soil

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A			*				09/24/08 10:00	bjl

#### Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		UH	*	mg/Kg	2	7	09/26/08 12:42	kah

HI

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71084-05.

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ER 10/06/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L72198	Sampling Event: September 17 <sup>th</sup> -19 <sup>th</sup> & 26 <sup>th</sup> , 2008
Sample-specific Parameter Review? <b>Yes</b>	Laboratory Performance Parameters? <b>No</b>
Data Reviewer: Liz Kraak	Date Completed: 11/19/08
Peer Reviewer: Geoff Webb	Date Completed: 11/20/08

This report summarizes the verification of analytical data for 14 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
ET-SB01-0-20	SA	L72198-01	S	X <sup>m</sup>
ET-SB01-20-40	SA	L72198-02	S	X <sup>m</sup>
ET-SB01-40-60	SA	L72198-03	S	X
ET-SB01-60-80	SA	L72198-04	S	X
ET-SB01-80-100	SA	L72198-05	S	X
ET-SB02-0-20	SA	L72198-06	S	X
ET-SB02-20-40	SA	L72198-07	S	X
ET-SB02-40-50	SA	L72198-08	S	X
ET-SB02-50-60	SA	L72198-09	S	X
ET-SB02-60-80	SA	L72198-10	S	X
ET-SB02-80-100	SA	L72198-11	S	X
ST-SB01-200-220	SA	L72198-12	S	X
ST-SB01-220-235.5	SA	L72198-13	S	X
ST-SB01-237-255.5	SA	L72198-14	S	X

Matrix: S = Soil                      QC Type: SA = Sample  
X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.
- X   Data are usable with qualification (noted below).
- \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 4.5°C and 3.5°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD ET-SB01-0-20 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc)</li> <li>ET-SB01-20-40 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>• LD ET-SB01-0-20 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate N/A</li> <li>• Field Blank N/A</li> </ul>	N/A	A field duplicate sample was not collected with this sampling event.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	

Review Parameter	Criteria Met?	Comments
Other Parameters	Yes	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
ET-SB01-20-40	Total Antimony	<b>53.1/ 58.6</b> (75-125)	8.43 (20)	As the potential bias was considered to be low, the total antimony and total molybdenum results for the associated parent samples were flagged with a M2.
ET-SB01-0-20	Total Molybdenum	<b>64.6/ 92.5</b> (75-125)	14.29 (20)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ET-SB01-0-20

ACZ Sample ID: **L72198-01**  
 Date Sampled: 09/17/08 16:03  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/15/08 23:32	erf
Arsenic, total (3050)	M6020 ICP-MS	4.6			mg/Kg	0.3	0.5	10/15/08 23:32	erf
Barium, total (3050)	M6010B ICP	46.2		*	mg/Kg	0.3	2	10/17/08 20:15	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/17/08 20:15	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 20:15	aeh
Chromium, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/17/08 20:15	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/17/08 20:15	aeh
Copper, total (3050)	M6010B ICP	307		*	mg/Kg	1	5	10/17/08 20:15	aeh
Lead, total (3050)	M6020 ICP-MS	44.30			mg/Kg	0.05	0.3	10/15/08 23:32	erf
Manganese, total (3050)	M6010B ICP	366			mg/Kg	0.5	3	10/17/08 20:15	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/15/08 11:34	pmc/jws
Molybdenum, total (3050)	M6010B ICP	59		*	mg/Kg	1	5	10/17/08 20:15	aeh <b>mz</b>
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 20:15	aeh
Selenium, total (3050)	M6020 ICP-MS	1.08			mg/Kg	0.05	0.3	10/15/08 23:32	erf
Thallium, total (3050)	M6020 ICP-MS	0.30	B	*	mg/Kg	0.05	0.3	10/15/08 23:32	erf
Uranium, total (3050)	M6020 ICP-MS	4.68		*	mg/Kg	0.05	0.3	10/15/08 23:32	erf
Zinc, total (3050)	M6010B ICP	56		*	mg/Kg	1	5	10/17/08 20:15	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.1		*	%	0.1	0.5	10/07/08 11:45	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:03	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 11:02	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 11:30	brd

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*ER 11/19/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB01-20-40

ACZ Sample ID: **L72198-02**

Date Sampled: 09/18/08 11:35  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	10/15/08 23:38	erf
Arsenic, total (3050)	M6020 ICP-MS	6.3			mg/Kg	0.3	0.5	10/15/08 23:38	erf
Barium, total (3050)	M6010B ICP	53.5		*	mg/Kg	0.3	2	10/17/08 20:37	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/17/08 20:37	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 20:37	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 20:37	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/17/08 20:37	aeh
Copper, total (3050)	M6010B ICP	647		*	mg/Kg	1	5	10/17/08 20:37	aeh
Lead, total (3050)	M6020 ICP-MS	15.20			mg/Kg	0.05	0.3	10/15/08 23:38	erf
Manganese, total (3050)	M6010B ICP	367			mg/Kg	0.5	3	10/17/08 20:37	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 11:41	pmc/jws
Molybdenum, total (3050)	M6010B ICP	54		*	mg/Kg	1	5	10/17/08 20:37	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/17/08 20:37	aeh
Selenium, total (3050)	M6020 ICP-MS	1.24			mg/Kg	0.05	0.3	10/15/08 23:38	erf
Thallium, total (3050)	M6020 ICP-MS	0.26	B	*	mg/Kg	0.05	0.3	10/15/08 23:38	erf
Uranium, total (3050)	M6020 ICP-MS	5.28		*	mg/Kg	0.05	0.3	10/15/08 23:38	erf
Zinc, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	10/17/08 20:37	aeh

M2

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.0		*	%	0.1	0.5	10/07/08 14:30	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:07	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 11:50	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 13:46	brd

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EE 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB01-40-60

ACZ Sample ID: **L72198-03**  
 Date Sampled: 09/18/08 12:10  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	10/16/08 0:09	erf
Arsenic, total (3050)	M6020 ICP-MS	5.3			mg/Kg	0.3	0.5	10/16/08 0:09	erf
Barium, total (3050)	M6010B ICP	59.8		*	mg/Kg	0.3	2	10/17/08 20:40	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/17/08 20:40	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 20:40	aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	10/17/08 20:40	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/17/08 20:40	aeh
Copper, total (3050)	M6010B ICP	966		*	mg/Kg	1	5	10/17/08 20:40	aeh
Lead, total (3050)	M6020 ICP-MS	22.70			mg/Kg	0.05	0.3	10/16/08 0:09	erf
Manganese, total (3050)	M6010B ICP	333			mg/Kg	0.5	3	10/17/08 20:40	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 11:43	pmc/jws
Molybdenum, total (3050)	M6010B ICP	81		*	mg/Kg	1	5	10/17/08 20:40	aeh
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 20:40	aeh
Selenium, total (3050)	M6020 ICP-MS	1.52			mg/Kg	0.05	0.3	10/16/08 0:09	erf
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	10/16/08 0:09	erf
Uranium, total (3050)	M6020 ICP-MS	5.86		*	mg/Kg	0.05	0.3	10/16/08 0:09	erf
Zinc, total (3050)	M6010B ICP	52		*	mg/Kg	1	5	10/17/08 20:40	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.3		*	%	0.1	0.5	10/07/08 15:52	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:10	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 12:37	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 16:02	brd

Arizona license number: AZ0102

EE 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ET-SB01-60-80

ACZ Sample ID: **L72198-04**  
 Date Sampled: 09/18/08 14:05  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/16/08 0:15	erf
Arsenic, total (3050)	M6020 ICP-MS	2.5			mg/Kg	0.3	0.5	10/16/08 0:15	erf
Barium, total (3050)	M6010B ICP	67.2		*	mg/Kg	0.3	2	10/17/08 20:44	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/17/08 20:44	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 20:44	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 20:44	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/17/08 20:44	aeh
Copper, total (3050)	M6010B ICP	258		*	mg/Kg	1	5	10/17/08 20:44	aeh
Lead, total (3050)	M6020 ICP-MS	6.03			mg/Kg	0.05	0.3	10/16/08 0:15	erf
Manganese, total (3050)	M6010B ICP	188			mg/Kg	0.5	3	10/17/08 20:44	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/15/08 11:46	pmc/jws
Molybdenum, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/17/08 20:44	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/17/08 20:44	aeh
Selenium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	10/16/08 0:15	erf
Thallium, total (3050)	M6020 ICP-MS	0.18	B	*	mg/Kg	0.05	0.3	10/16/08 0:15	erf
Uranium, total (3050)	M6020 ICP-MS	1.33		*	mg/Kg	0.05	0.3	10/16/08 0:15	erf
Zinc, total (3050)	M6010B ICP	24		*	mg/Kg	1	5	10/17/08 20:44	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	96.1		*	%	0.1	0.5	10/07/08 17:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:14	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 12:52	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 18:18	brd

Arizona license number: AZ0102

ED 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB01-80-100

ACZ Sample ID: **L72198-05**  
 Date Sampled: 09/18/08 15:20  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/16/08 0:21	erf
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	0.5	10/16/08 0:21	erf
Barium, total (3050)	M6010B ICP	43.6		*	mg/Kg	0.3	2	10/17/08 20:47	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	10/17/08 20:47	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 20:47	aeh
Chromium, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/17/08 20:47	aeh
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/17/08 20:47	aeh
Copper, total (3050)	M6010B ICP	213		*	mg/Kg	1	5	10/17/08 20:47	aeh
Lead, total (3050)	M6020 ICP-MS	4.17			mg/Kg	0.05	0.3	10/16/08 0:21	erf
Manganese, total (3050)	M6010B ICP	157			mg/Kg	0.5	3	10/17/08 20:47	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/15/08 11:48	pmc/jws
Molybdenum, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/17/08 20:47	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 20:47	aeh
Selenium, total (3050)	M6020 ICP-MS	0.09	B		mg/Kg	0.05	0.3	10/16/08 0:21	erf
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	10/16/08 0:21	erf
Uranium, total (3050)	M6020 ICP-MS	1.36		*	mg/Kg	0.05	0.3	10/16/08 0:21	erf
Zinc, total (3050)	M6010B ICP	20		*	mg/Kg	1	5	10/17/08 20:47	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.7		*	%	0.1	0.5	10/07/08 18:37	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:18	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 13:08	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 20:34	brd

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB02-0-20

ACZ Sample ID: **L72198-06**  
 Date Sampled: 09/19/08 09:55  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/16/08 0:27	erf
Arsenic, total (3050)	M6020 ICP-MS	3.4			mg/Kg	0.3	0.5	10/16/08 0:27	erf
Barium, total (3050)	M6010B ICP	51.0		*	mg/Kg	0.3	2	10/17/08 20:51	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/17/08 20:51	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 20:51	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	10/17/08 20:51	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/17/08 20:51	aeh
Copper, total (3050)	M6010B ICP	299		*	mg/Kg	1	5	10/17/08 20:51	aeh
Lead, total (3050)	M6020 ICP-MS	8.17			mg/Kg	0.05	0.3	10/16/08 0:27	erf
Manganese, total (3050)	M6010B ICP	331			mg/Kg	0.5	3	10/17/08 20:51	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:34	pmc/jws
Molybdenum, total (3050)	M6010B ICP	61		*	mg/Kg	1	5	10/17/08 20:51	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 20:51	aeh
Selenium, total (3050)	M6020 ICP-MS	0.83			mg/Kg	0.05	0.3	10/16/08 0:27	erf
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	10/16/08 0:27	erf
Uranium, total (3050)	M6020 ICP-MS	5.34		*	mg/Kg	0.05	0.3	10/16/08 0:27	erf
Zinc, total (3050)	M6010B ICP	72		*	mg/Kg	1	5	10/17/08 20:51	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	88.7		*	%	0.1	0.5	10/07/08 20:00	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:21	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 13:24	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/10/08 22:50	brd

Arizona license number: AZ0102

EE 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ET-SB02-20-40

ACZ Sample ID: **L72198-07**  
 Date Sampled: 09/19/08 10:25  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/16/08 0:33	erf
Arsenic, total (3050)	M6020 ICP-MS	5.6			mg/Kg	0.3	0.5	10/16/08 0:33	erf
Barium, total (3050)	M6010B ICP	53.3		*	mg/Kg	0.3	2	10/17/08 20:55	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/17/08 20:55	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 20:55	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 20:55	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/17/08 20:55	aeh
Copper, total (3050)	M6010B ICP	772		*	mg/Kg	1	5	10/17/08 20:55	aeh
Lead, total (3050)	M6020 ICP-MS	20.10			mg/Kg	0.05	0.3	10/16/08 0:33	erf
Manganese, total (3050)	M6010B ICP	428			mg/Kg	0.5	3	10/17/08 20:55	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:36	pmc/jws
Molybdenum, total (3050)	M6010B ICP	72		*	mg/Kg	1	5	10/17/08 20:55	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/17/08 20:55	aeh
Selenium, total (3050)	M6020 ICP-MS	1.16			mg/Kg	0.05	0.3	10/16/08 0:33	erf
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	10/16/08 0:33	erf
Uranium, total (3050)	M6020 ICP-MS	4.93		*	mg/Kg	0.05	0.3	10/16/08 0:33	erf
Zinc, total (3050)	M6010B ICP	61		*	mg/Kg	1	5	10/17/08 20:55	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.3		*	%	0.1	0.5	10/07/08 21:22	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:25	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 13:40	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 1:06	brd

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EE 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ET-SB02-40-50

ACZ Sample ID: **L72198-08**  
 Date Sampled: 09/19/08 13:45  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/16/08 0:46	erf
Arsenic, total (3050)	M6020 ICP-MS	5.9			mg/Kg	0.3	0.5	10/16/08 0:46	erf
Barium, total (3050)	M6010B ICP	48.6		*	mg/Kg	0.3	2	10/17/08 20:58	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/17/08 20:58	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 20:58	aeh
Chromium, total (3050)	M6010B ICP	15			mg/Kg	1	5	10/17/08 20:58	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/17/08 20:58	aeh
Copper, total (3050)	M6010B ICP	745		*	mg/Kg	1	5	10/17/08 20:58	aeh
Lead, total (3050)	M6020 ICP-MS	16.80			mg/Kg	0.05	0.3	10/16/08 0:46	erf
Manganese, total (3050)	M6010B ICP	319			mg/Kg	0.5	3	10/17/08 20:58	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:38	pmc/jws
Molybdenum, total (3050)	M6010B ICP	88		*	mg/Kg	1	5	10/17/08 20:58	aeh
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	10/17/08 20:58	aeh
Selenium, total (3050)	M6020 ICP-MS	1.22			mg/Kg	0.05	0.3	10/16/08 0:46	erf
Thallium, total (3050)	M6020 ICP-MS	0.33		*	mg/Kg	0.05	0.3	10/16/08 0:46	erf
Uranium, total (3050)	M6020 ICP-MS	6.16		*	mg/Kg	0.05	0.3	10/16/08 0:46	erf
Zinc, total (3050)	M6010B ICP	65		*	mg/Kg	1	5	10/17/08 20:58	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.0		*	%	0.1	0.5	10/07/08 22:45	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:28	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 13:55	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 3:23	brd

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ER 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB02-50-60

ACZ Sample ID: L72198-09  
 Date Sampled: 09/19/08 14:17  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	10/16/08 0:52	erf
Arsenic, total (3050)	M6020 ICP-MS	6.1			mg/Kg	0.3	0.5	10/16/08 0:52	erf
Barium, total (3050)	M6010B ICP	161		*	mg/Kg	0.3	2	10/17/08 21:02	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/17/08 21:02	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 21:02	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 21:02	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/17/08 21:02	aeh
Copper, total (3050)	M6010B ICP	721		*	mg/Kg	1	5	10/17/08 21:02	aeh
Lead, total (3050)	M6020 ICP-MS	35.60			mg/Kg	0.05	0.3	10/16/08 0:52	erf
Manganese, total (3050)	M6010B ICP	526			mg/Kg	0.5	3	10/17/08 21:02	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:40	pmc/jws
Molybdenum, total (3050)	M6010B ICP	22		*	mg/Kg	1	5	10/17/08 21:02	aeh
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	10/17/08 21:02	aeh
Selenium, total (3050)	M6020 ICP-MS	0.30			mg/Kg	0.05	0.3	10/16/08 0:52	erf
Thallium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	10/16/08 0:52	erf
Uranium, total (3050)	M6020 ICP-MS	1.69		*	mg/Kg	0.05	0.3	10/16/08 0:52	erf
Zinc, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	10/17/08 21:02	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.2		*	%	0.1	0.5	10/08/08 0:07	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:32	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 14:11	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 5:39	brd

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*EE 11/19/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB02-60-80

ACZ Sample ID: **L72198-10**  
 Date Sampled: 09/19/08 15:43  
 Date Received: 10/02/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	10/16/08 0:58	erf
Arsenic, total (3050)	M6020 ICP-MS	5.3			mg/Kg	0.3	0.5	10/16/08 0:58	erf
Barium, total (3050)	M6010B ICP	78.3		*	mg/Kg	0.3	2	10/17/08 21:06	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/17/08 21:06	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 21:06	aeh
Chromium, total (3050)	M6010B ICP	35			mg/Kg	1	5	10/17/08 21:06	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/17/08 21:06	aeh
Copper, total (3050)	M6010B ICP	428		*	mg/Kg	1	5	10/17/08 21:06	aeh
Lead, total (3050)	M6020 ICP-MS	18.10			mg/Kg	0.05	0.3	10/16/08 0:58	erf
Manganese, total (3050)	M6010B ICP	302			mg/Kg	0.5	3	10/17/08 21:06	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:43	pmc/jws
Molybdenum, total (3050)	M6010B ICP	22		*	mg/Kg	1	5	10/17/08 21:06	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/17/08 21:06	aeh
Selenium, total (3050)	M6020 ICP-MS	0.33			mg/Kg	0.05	0.3	10/16/08 0:58	erf
Thallium, total (3050)	M6020 ICP-MS	0.09	B	*	mg/Kg	0.05	0.3	10/16/08 0:58	erf
Uranium, total (3050)	M6020 ICP-MS	1.38		*	mg/Kg	0.05	0.3	10/16/08 0:58	erf
Zinc, total (3050)	M6010B ICP	61		*	mg/Kg	1	5	10/17/08 21:06	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	97.7		*	%	0.1	0.5	10/08/08 1:30	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:36	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 14:27	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 7:55	brd

Arizona license number: AZ0102

*Er 11/19/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ET-SB02-80-100

ACZ Sample ID: **L72198-11**  
 Date Sampled: 09/19/08 16:32  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.7	B	*	mg/Kg	0.2	1	10/16/08 1:04	erf
Arsenic, total (3050)	M6020 ICP-MS	14.9			mg/Kg	0.3	0.5	10/16/08 1:04	erf
Barium, total (3050)	M6010B ICP	53.7		*	mg/Kg	0.3	2	10/17/08 21:09	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/17/08 21:09	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 21:09	aeh
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	10/17/08 21:09	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/17/08 21:09	aeh
Copper, total (3050)	M6010B ICP	434		*	mg/Kg	1	5	10/17/08 21:09	aeh
Lead, total (3050)	M6020 ICP-MS	20.60			mg/Kg	0.05	0.3	10/16/08 1:04	erf
Manganese, total (3050)	M6010B ICP	223			mg/Kg	0.5	3	10/17/08 21:09	aeh
Mercury, total	M7471A CVAAs			U	mg/Kg	0.04	0.2	10/15/08 13:45	pmc/jws
Molybdenum, total (3050)	M6010B ICP	30		*	mg/Kg	1	5	10/17/08 21:09	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 21:09	aeh
Selenium, total (3050)	M6020 ICP-MS	0.45			mg/Kg	0.05	0.3	10/16/08 1:04	erf
Thallium, total (3050)	M6020 ICP-MS	0.08	B	*	mg/Kg	0.05	0.3	10/16/08 1:04	erf
Uranium, total (3050)	M6020 ICP-MS	1.34		*	mg/Kg	0.05	0.3	10/16/08 1:04	erf
Zinc, total (3050)	M6010B ICP	74		*	mg/Kg	1	5	10/17/08 21:09	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	10/08/08 2:52	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:39	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 14:42	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 10:11	brd

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-200-220

ACZ Sample ID: **L72198-12**  
 Date Sampled: 09/26/08 10:02  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/16/08 1:23	erf
Arsenic, total (3050)	M6020 ICP-MS	2.1			mg/Kg	0.3	0.5	10/16/08 1:23	erf
Barium, total (3050)	M6010B ICP	107		*	mg/Kg	0.3	2	10/17/08 21:21	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 21:21	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 21:21	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	10/17/08 21:21	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/17/08 21:21	aeh
Copper, total (3050)	M6010B ICP	291		*	mg/Kg	1	5	10/17/08 21:21	aeh
Lead, total (3050)	M6020 ICP-MS	4.96			mg/Kg	0.05	0.3	10/16/08 1:23	erf
Manganese, total (3050)	M6010B ICP	342			mg/Kg	0.5	3	10/17/08 21:21	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/15/08 13:47	pmc/jws
Molybdenum, total (3050)	M6010B ICP	55		*	mg/Kg	1	5	10/17/08 21:21	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	10/17/08 21:21	aeh
Selenium, total (3050)	M6020 ICP-MS	1.01			mg/Kg	0.05	0.3	10/16/08 1:23	erf
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	10/16/08 1:23	erf
Uranium, total (3050)	M6020 ICP-MS	3.43		*	mg/Kg	0.05	0.3	10/16/08 1:23	erf
Zinc, total (3050)	M6010B ICP	62		*	mg/Kg	1	5	10/17/08 21:21	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.9		*	%	0.1	0.5	10/08/08 4:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:43	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 14:58	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 12:27	brd

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Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-220-235.5

ACZ Sample ID: **L72198-13**  
 Date Sampled: 09/26/08 11:12  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/16/08 1:29	erf
Arsenic, total (3050)	M6020 ICP-MS	2.4			mg/Kg	0.3	0.5	10/16/08 1:29	erf
Barium, total (3050)	M6010B ICP	126		*	mg/Kg	0.3	2	10/17/08 21:24	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/17/08 21:24	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 21:24	aeh
Chromium, total (3050)	M6010B ICP	21			mg/Kg	1	5	10/17/08 21:24	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	10/17/08 21:24	aeh
Copper, total (3050)	M6010B ICP	245		*	mg/Kg	1	5	10/17/08 21:24	aeh
Lead, total (3050)	M6020 ICP-MS	11.70			mg/Kg	0.05	0.3	10/16/08 1:29	erf
Manganese, total (3050)	M6010B ICP	400			mg/Kg	0.5	3	10/17/08 21:24	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:51	pmc/jws
Molybdenum, total (3050)	M6010B ICP	35		*	mg/Kg	1	5	10/17/08 21:24	aeh
Nickel, total (3050)	M6010B ICP	13			mg/Kg	1	5	10/17/08 21:24	aeh
Selenium, total (3050)	M6020 ICP-MS	1.10			mg/Kg	0.05	0.3	10/16/08 1:29	erf
Thallium, total (3050)	M6020 ICP-MS	0.38		*	mg/Kg	0.05	0.3	10/16/08 1:29	erf
Uranium, total (3050)	M6020 ICP-MS	4.81		*	mg/Kg	0.05	0.3	10/16/08 1:29	erf
Zinc, total (3050)	M6010B ICP	83		*	mg/Kg	1	5	10/17/08 21:24	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.4		*	%	0.1	0.5	10/08/08 5:37	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:46	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 15:14	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 14:43	brd

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*EE 11/19/08*

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB01-237-255.5

ACZ Sample ID: **L72198-14**  
 Date Sampled: 09/26/08 12:32  
 Date Received: 10/02/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	10/16/08 1:35	erf
Arsenic, total (3050)	M6020 ICP-MS	7.0			mg/Kg	0.3	0.5	10/16/08 1:35	erf
Barium, total (3050)	M6010B ICP	91.2		*	mg/Kg	0.3	2	10/17/08 21:28	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/17/08 21:28	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 21:28	aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	10/17/08 21:28	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/17/08 21:28	aeh
Copper, total (3050)	M6010B ICP	378		*	mg/Kg	1	5	10/17/08 21:28	aeh
Lead, total (3050)	M6020 ICP-MS	24.50			mg/Kg	0.05	0.3	10/16/08 1:35	erf
Manganese, total (3050)	M6010B ICP	413			mg/Kg	0.5	3	10/17/08 21:28	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/15/08 13:53	pmc/jws
Molybdenum, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	10/17/08 21:28	aeh
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 21:28	aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	10/16/08 1:35	erf
Thallium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	10/16/08 1:35	erf
Uranium, total (3050)	M6020 ICP-MS	1.40		*	mg/Kg	0.05	0.3	10/16/08 1:35	erf
Zinc, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	10/17/08 21:28	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.5		*	%	0.1	0.5	10/08/08 7:00	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:50	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 15:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/11/08 16:59	brd

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*EE 11/19/08*

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L72199

Sampling Event: September 24<sup>th</sup> & 25<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 11/19/08

Peer Reviewer: Geoff Webb

Date Completed: 11/20/08

This report summarizes the verification of analytical data for 10 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
ST-SB01-0-20	SA	L72199-01	S	X <sup>m</sup>
ST-SB01-20-40	SA	L72199-02	S	X <sup>m</sup>
ST-SB01-40-60	SA	L72199-03	S	X
ST-SB01-60-80	SA	L72199-04	S	X
ST-SB01-80-100	SA	L72199-05	S	X
ST-SB01-100-120	SA	L72199-06	S	X
ST-SB01-120-140	SA	L72199-07	S	X
ST-SB01-140-160	SA	L72199-08	S	X
ST-SB01-160-180	SA	L72199-09	S	X
ST-SB01-180-200	SA	L72199-10	S	X

Matrix: S = Soil

QC Type: SA = Sample

X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 3.5°C and 4.5°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD ST-SB01-20-40 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>ST-SB01-0-20 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc)</li> <li>• LD ST-SB01-0-20 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A <ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A <ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A	N/A	A field duplicate sample was not collected with this sampling event.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	Yes	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
ST-SB01-20-40	Total Antimony	<b>63.4/ 59</b> (75-125)	6.36 (20)	As the potential bias was considered to be low, the total antimony, total antimony, and total lead results for the associated parent sample were flagged with a M2.
ST-SB01-0-20	Total Molybdenum	<b>128.6/ 80.4</b> (75-125)	<b>27.62</b> (20)	As the potential bias was considered to be high, the total antimony result for the associated parent sample was flagged with a M1. As the total antimony RPD was not within acceptance limits, the total antimony result was also flagged with an R8.

%R = Percent Recovery

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB01-0-20

ACZ Sample ID: **L72199-01**  
 Date Sampled: 09/24/08 08:42  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/18/08 22:55	erf
Arsenic, total (3050)	M6020 ICP-MS	1.2			mg/Kg	0.3	0.5	10/18/08 22:55	erf
Barium, total (3050)	M6010B ICP	64.2			mg/Kg	0.3	2	10/17/08 22:27	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	10/17/08 22:27	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 22:27	aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/17/08 22:27	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/17/08 22:27	aeh
Copper, total (3050)	M6010B ICP	348		*	mg/Kg	1	5	10/17/08 22:27	aeh
Lead, total (3050)	M6020 ICP-MS	3.08			mg/Kg	0.05	0.3	10/18/08 22:55	erf
Manganese, total (3050)	M6010B ICP	203			mg/Kg	0.5	3	10/17/08 22:27	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/22/08 9:23	pmc
Molybdenum, total (3050)	M6010B ICP	35		*	mg/Kg	1	5	10/17/08 22:27	aeh MI, R8
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 22:27	aeh
Selenium, total (3050)	M6020 ICP-MS	0.72		*	mg/Kg	0.05	0.3	10/18/08 22:55	erf
Thallium, total (3050)	M6020 ICP-MS	0.41		*	mg/Kg	0.05	0.3	10/18/08 22:55	erf
Uranium, total (3050)	M6020 ICP-MS	5.70		*	mg/Kg	0.05	0.3	10/18/08 22:55	erf
Zinc, total (3050)	M6010B ICP	31			mg/Kg	1	5	10/17/08 22:27	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.0		*	%	0.1	0.5	10/07/08 11:45	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:54	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 14:18	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:00	bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-20-40

ACZ Sample ID: **L72199-02**  
 Date Sampled: 09/24/08 09:07  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	10/18/08 23:01	erf
Arsenic, total (3050)	M6020 ICP-MS	1.9			mg/Kg	0.3	0.5	10/18/08 23:01	erf
Barium, total (3050)	M6010B ICP	77.9			mg/Kg	0.3	2	10/17/08 22:49	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	0.2	1	10/17/08 22:49	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 22:49	aeh
Chromium, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 22:49	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/17/08 22:49	aeh
Copper, total (3050)	M6010B ICP	322		*	mg/Kg	1	5	10/17/08 22:49	aeh
Lead, total (3050)	M6020 ICP-MS	3.13			mg/Kg	0.05	0.3	10/18/08 23:01	erf
Manganese, total (3050)	M6010B ICP	158			mg/Kg	0.5	3	10/17/08 22:49	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/22/08 9:29	pmc
Molybdenum, total (3050)	M6010B ICP	54		*	mg/Kg	1	5	10/17/08 22:49	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	10/17/08 22:49	aeh
Selenium, total (3050)	M6020 ICP-MS	0.53		*	mg/Kg	0.05	0.3	10/18/08 23:01	erf
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	10/18/08 23:01	erf
Uranium, total (3050)	M6020 ICP-MS	5.15		*	mg/Kg	0.05	0.3	10/18/08 23:01	erf
Zinc, total (3050)	M6010B ICP	25			mg/Kg	1	5	10/17/08 22:49	aeh

MZ

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.0		*	%	0.1	0.5	10/07/08 15:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 9:57	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 15:37	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:02	bjl

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-40-60

ACZ Sample ID: **L72199-03**

Date Sampled: 09/24/08 09:47  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.2	1	10/18/08 23:32	erf
Arsenic, total (3050)	M6020 ICP-MS	7.1			mg/Kg	0.3	0.5	10/18/08 23:32	erf
Barium, total (3050)	M6010B ICP	89.8			mg/Kg	0.3	2	10/17/08 22:53	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 22:53	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 22:53	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	10/17/08 22:53	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/17/08 22:53	aeh
Copper, total (3050)	M6010B ICP	342		*	mg/Kg	1	5	10/17/08 22:53	aeh
Lead, total (3050)	M6020 ICP-MS	4.94			mg/Kg	0.05	0.3	10/18/08 23:32	erf
Manganese, total (3050)	M6010B ICP	218			mg/Kg	0.5	3	10/17/08 22:53	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:32	pmc
Molybdenum, total (3050)	M6010B ICP	77		*	mg/Kg	1	5	10/17/08 22:53	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/17/08 22:53	aeh
Selenium, total (3050)	M6020 ICP-MS	0.79		*	mg/Kg	0.05	0.3	10/18/08 23:32	erf
Thallium, total (3050)	M6020 ICP-MS	0.49		*	mg/Kg	0.05	0.3	10/18/08 23:32	erf
Uranium, total (3050)	M6020 ICP-MS	5.61		*	mg/Kg	0.05	0.3	10/18/08 23:32	erf
Zinc, total (3050)	M6010B ICP	31			mg/Kg	1	5	10/17/08 22:53	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.3		*	%	0.1	0.5	10/07/08 17:00	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:01	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 16:56	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:04	bjl

Arizona license number: AZ0102

EE 11/19/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: ST-SB01-60-80

ACZ Sample ID: L72199-04  
 Date Sampled: 09/24/08 11:07  
 Date Received: 10/02/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/18/08 23:38	erf
Arsenic, total (3050)	M6020 ICP-MS	2.4			mg/Kg	0.3	0.5	10/18/08 23:38	erf
Barium, total (3050)	M6010B ICP	79.1			mg/Kg	0.3	2	10/17/08 22:57	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 22:57	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 22:57	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 22:57	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/17/08 22:57	aeh
Copper, total (3050)	M6010B ICP	336		*	mg/Kg	1	5	10/17/08 22:57	aeh
Lead, total (3050)	M6020 ICP-MS	6.59			mg/Kg	0.05	0.3	10/18/08 23:38	erf
Manganese, total (3050)	M6010B ICP	270			mg/Kg	0.5	3	10/17/08 22:57	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.05	0.2	10/22/08 9:34	pmc
Molybdenum, total (3050)	M6010B ICP	50		*	mg/Kg	1	5	10/17/08 22:57	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/17/08 22:57	aeh
Selenium, total (3050)	M6020 ICP-MS	0.99		*	mg/Kg	0.05	0.3	10/18/08 23:38	erf
Thallium, total (3050)	M6020 ICP-MS	0.33		*	mg/Kg	0.05	0.3	10/18/08 23:38	erf
Uranium, total (3050)	M6020 ICP-MS	5.49		*	mg/Kg	0.05	0.3	10/18/08 23:38	erf
Zinc, total (3050)	M6010B ICP	41			mg/Kg	1	5	10/17/08 22:57	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.4		*	%	0.1	0.5	10/07/08 18:45	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:04	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 17:22	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:06	bjl

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-80-100

ACZ Sample ID: **L72199-05**  
 Date Sampled: 09/24/08 12:57  
 Date Received: 10/02/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	10/18/08 23:44	erf
Arsenic, total (3050)	M6020 ICP-MS	3.0			mg/Kg	0.3	0.5	10/18/08 23:44	erf
Barium, total (3050)	M6010B ICP	80.4			mg/Kg	0.3	2	10/17/08 23:00	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/17/08 23:00	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 23:00	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 23:00	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/17/08 23:00	aeh
Copper, total (3050)	M6010B ICP	599		*	mg/Kg	1	5	10/17/08 23:00	aeh
Lead, total (3050)	M6020 ICP-MS	7.75			mg/Kg	0.05	0.3	10/18/08 23:44	erf
Manganese, total (3050)	M6010B ICP	310			mg/Kg	0.5	3	10/17/08 23:00	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:37	pmc
Molybdenum, total (3050)	M6010B ICP	94		*	mg/Kg	1	5	10/17/08 23:00	aeh
Nickel, total (3050)	M6010B ICP	5			mg/Kg	1	5	10/17/08 23:00	aeh
Selenium, total (3050)	M6020 ICP-MS	1.15		*	mg/Kg	0.05	0.3	10/18/08 23:44	erf
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	10/18/08 23:44	erf
Uranium, total (3050)	M6020 ICP-MS	5.13		*	mg/Kg	0.05	0.3	10/18/08 23:44	erf
Zinc, total (3050)	M6010B ICP	66			mg/Kg	1	5	10/17/08 23:00	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.2		*	%	0.1	0.5	10/07/08 20:30	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:08	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 17:48	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:08	bjl

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-100-120

ACZ Sample ID: **L72199-06**  
 Date Sampled: 09/25/08 09:22  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/18/08 23:51	erf
Arsenic, total (3050)	M6020 ICP-MS	3.8			mg/Kg	0.3	0.5	10/18/08 23:51	erf
Barium, total (3050)	M6010B ICP	73.7			mg/Kg	0.3	2	10/17/08 23:04	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/17/08 23:04	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 23:04	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	10/17/08 23:04	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/17/08 23:04	aeh
Copper, total (3050)	M6010B ICP	610		*	mg/Kg	1	5	10/17/08 23:04	aeh
Lead, total (3050)	M6020 ICP-MS	11.70			mg/Kg	0.05	0.3	10/18/08 23:51	erf
Manganese, total (3050)	M6010B ICP	428			mg/Kg	0.5	3	10/17/08 23:04	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:43	pmc
Molybdenum, total (3050)	M6010B ICP	65		*	mg/Kg	1	5	10/17/08 23:04	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/17/08 23:04	aeh
Selenium, total (3050)	M6020 ICP-MS	1.21		*	mg/Kg	0.05	0.3	10/18/08 23:51	erf
Thallium, total (3050)	M6020 ICP-MS	0.20	B	*	mg/Kg	0.05	0.3	10/18/08 23:51	erf
Uranium, total (3050)	M6020 ICP-MS	4.64		*	mg/Kg	0.05	0.3	10/18/08 23:51	erf
Zinc, total (3050)	M6010B ICP	113			mg/Kg	1	5	10/17/08 23:04	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.5		*	%	0.1	0.5	10/07/08 22:15	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:12	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 18:15	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:10	bjl

Arizona license number: AZ0102

EE 11/19/08

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
 Sample ID: ST-SB01-120-140

ACZ Sample ID: L72199-07  
 Date Sampled: 09/25/08 10:37  
 Date Received: 10/02/08  
 Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/18/08 23:57	erf
Arsenic, total (3050)	M6020 ICP-MS	1.7			mg/Kg	0.3	0.5	10/18/08 23:57	erf
Barium, total (3050)	M6010B ICP	108			mg/Kg	0.3	2	10/17/08 23:08	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/17/08 23:08	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 23:08	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/17/08 23:08	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/17/08 23:08	aeh
Copper, total (3050)	M6010B ICP	262		*	mg/Kg	1	5	10/17/08 23:08	aeh
Lead, total (3050)	M6020 ICP-MS	5.14			mg/Kg	0.05	0.3	10/18/08 23:57	erf
Manganese, total (3050)	M6010B ICP	305			mg/Kg	0.5	3	10/17/08 23:08	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:45	pmc
Molybdenum, total (3050)	M6010B ICP	49		*	mg/Kg	1	5	10/17/08 23:08	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	10/17/08 23:08	aeh
Selenium, total (3050)	M6020 ICP-MS	0.82		*	mg/Kg	0.05	0.3	10/18/08 23:57	erf
Thallium, total (3050)	M6020 ICP-MS	0.24	B	*	mg/Kg	0.05	0.3	10/18/08 23:57	erf
Uranium, total (3050)	M6020 ICP-MS	7.23		*	mg/Kg	0.05	0.3	10/18/08 23:57	erf
Zinc, total (3050)	M6010B ICP	58			mg/Kg	1	5	10/17/08 23:08	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.6		*	%	0.1	0.5	10/08/08 0:00	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:15	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 18:41	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:12	bjl

Arizona license number: AZ0102

Er 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB01-140-160

ACZ Sample ID: **L72199-08**  
 Date Sampled: 09/25/08 13:17  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/19/08 0:09	erf
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	10/19/08 0:09	erf
Barium, total (3050)	M6010B ICP	117			mg/Kg	0.3	2	10/17/08 23:11	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 23:11	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/17/08 23:11	aeh
Chromium, total (3050)	M6010B ICP	16			mg/Kg	1	5	10/17/08 23:11	aeh
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	10/17/08 23:11	aeh
Copper, total (3050)	M6010B ICP	451		*	mg/Kg	1	5	10/17/08 23:11	aeh
Lead, total (3050)	M6020 ICP-MS	4.70			mg/Kg	0.05	0.3	10/19/08 0:09	erf
Manganese, total (3050)	M6010B ICP	280			mg/Kg	0.5	3	10/17/08 23:11	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/22/08 9:47	pmc
Molybdenum, total (3050)	M6010B ICP	69		*	mg/Kg	1	5	10/17/08 23:11	aeh
Nickel, total (3050)	M6010B ICP	10			mg/Kg	1	5	10/17/08 23:11	aeh
Selenium, total (3050)	M6020 ICP-MS	0.97		*	mg/Kg	0.05	0.3	10/19/08 0:09	erf
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	10/19/08 0:09	erf
Uranium, total (3050)	M6020 ICP-MS	3.92		*	mg/Kg	0.05	0.3	10/19/08 0:09	erf
Zinc, total (3050)	M6010B ICP	46			mg/Kg	1	5	10/17/08 23:11	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.2		*	%	0.1	0.5	10/08/08 1:45	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:19	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 19:07	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:15	bjl

Arizona license number: AZ0102

*EE 11/19/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB01-160-180

ACZ Sample ID: **L72199-09**  
 Date Sampled: 09/25/08 16:27  
 Date Received: 10/02/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/19/08 0:15	erf
Arsenic, total (3050)	M6020 ICP-MS	1.7			mg/Kg	0.3	0.5	10/19/08 0:15	erf
Barium, total (3050)	M6010B ICP	92.4			mg/Kg	0.3	2	10/17/08 23:15	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 23:15	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 23:15	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	10/17/08 23:15	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/17/08 23:15	aeh
Copper, total (3050)	M6010B ICP	264		*	mg/Kg	1	5	10/17/08 23:15	aeh
Lead, total (3050)	M6020 ICP-MS	3.69			mg/Kg	0.05	0.3	10/19/08 0:15	erf
Manganese, total (3050)	M6010B ICP	278			mg/Kg	0.5	3	10/17/08 23:15	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:50	pmc
Molybdenum, total (3050)	M6010B ICP	57		*	mg/Kg	1	5	10/17/08 23:15	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	10/17/08 23:15	aeh
Selenium, total (3050)	M6020 ICP-MS	0.82		*	mg/Kg	0.05	0.3	10/19/08 0:15	erf
Thallium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	10/19/08 0:15	erf
Uranium, total (3050)	M6020 ICP-MS	5.41		*	mg/Kg	0.05	0.3	10/19/08 0:15	erf
Zinc, total (3050)	M6010B ICP	45			mg/Kg	1	5	10/17/08 23:15	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	79.1		*	%	0.1	0.5	10/08/08 3:30	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:22	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 19:33	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:17	bjl

Arizona license number: AZ0102

EE 11/19/08

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB01-180-200

ACZ Sample ID: **L72199-10**  
 Date Sampled: 09/25/08 17:12  
 Date Received: 10/02/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/19/08 0:34	erf
Arsenic, total (3050)	M6020 ICP-MS	1.4			mg/Kg	0.3	0.5	10/19/08 0:34	erf
Barium, total (3050)	M6010B ICP	98.2			mg/Kg	0.3	2	10/17/08 23:19	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/17/08 23:19	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/17/08 23:19	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	10/17/08 23:19	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/17/08 23:19	aeh
Copper, total (3050)	M6010B ICP	125		*	mg/Kg	1	5	10/17/08 23:19	aeh
Lead, total (3050)	M6020 ICP-MS	7.38			mg/Kg	0.05	0.3	10/19/08 0:34	erf
Manganese, total (3050)	M6010B ICP	264			mg/Kg	0.5	3	10/17/08 23:19	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/22/08 9:53	pmc
Molybdenum, total (3050)	M6010B ICP	28		*	mg/Kg	1	5	10/17/08 23:19	aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	10/17/08 23:19	aeh
Selenium, total (3050)	M6020 ICP-MS	0.74		*	mg/Kg	0.05	0.3	10/19/08 0:34	erf
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	10/19/08 0:34	erf
Uranium, total (3050)	M6020 ICP-MS	3.37		*	mg/Kg	0.05	0.3	10/19/08 0:34	erf
Zinc, total (3050)	M6010B ICP	49			mg/Kg	1	5	10/17/08 23:19	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	82.7		*	%	0.1	0.5	10/08/08 5:15	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/07/08 10:26	bjl
Digestion - Hot Plate	M3050B ICP-MS							10/15/08 20:00	brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/15/08 8:19	bjl

Arizona license number: AZ0102

*Ee 11/19/08*

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L72397

Sampling Event: October 3<sup>rd</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 11/12/08

Peer Reviewer: Geoff Webb

Date Completed: 11/13/08

This report summarizes the verification of analytical data for 18 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
ST-SB03 200-210	SA	L72397-01	S	X <sup>m</sup>
ST-SB04 0-20	SA	L72397-02	S	X <sup>m</sup>
ST-SB04 20-40	SA	L72397-03	S	X
ST-SB04 40-60	SA	L72397-04	S	X
ST-SB04 60-80	SA	L72397-05	S	X
ST-SB04 80-100	SA	L72397-06	S	X
ST-SB04 100-120	SA	L72397-07	S	X
ST-SB04 120-140	SA	L72397-08	S	X
ST-SB03 0-20	SA	L72397-09	S	X
ST-SB03 20-40	SA	L72397-10	S	X
ST-SB03 40-60	SA	L72397-11	S	X
ST-SB03 60-80	SA	L72397-12	S	X
ST-SB03 80-100	SA	L72397-13	S	X
ST-SB03 100-120	SA	L72397-14	S	X
ST-SB03 120-140	SA	L72397-15	S	X
ST-SB03 140-160	SA	L72397-16	S	X
ST-SB03 160-180	SA	L72397-17	S	X
ST-SB03 180-200	SA	L72397-18	S	X

Matrix: S = Soil                      QC Type: SA = Sample  
X<sup>m</sup> = Matrix spike and/or matrix spike duplicate recovery.  
m = Matrix spike and/or matrix spike duplicate.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<b>Sample-specific Parameters</b>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 0.8°C upon arrival at the laboratory, which met the criterion of ≤6°C. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
<b>Matrix QC</b> <ul style="list-style-type: none"> <li>• MS/MSD ST-SB04 0-20 (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>ST-SB03 200-210 (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Mercury, Molybdenum, Nickel, Zinc)</li> <li>• LD ST-SB03 180-200 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
<b>Method QC</b> <ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul>	N/A	
<ul style="list-style-type: none"> <li>N/A</li> <li>• Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
<b>Field QC</b> <ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul>	N/A	A field duplicate sample was not collected with this sampling event.
<ul style="list-style-type: none"> <li>N/A</li> <li>• Field Duplicate</li> </ul>		
<ul style="list-style-type: none"> <li>N/A</li> <li>• Field Blank</li> </ul>		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	No	<p><b>Interference Check Standards</b></p> <p>The laboratory noted that associated ICESA QC sample failed at 0.00105 mg/L. As the interferent elements of aluminum, calcium, iron, and magnesium were not reported in this data package, interference check standards could not be evaluated and further action was not necessary.</p>

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
ST-SB04 0-20	Total Antimony	<b>35/ 12</b> (75-125)	<b>32.17</b> (20)	As the potential bias was considered to be low, the total antimony result was flagged with a M2. As the total antimony RPD was not within acceptance limits, the total antimony result was also flagged with an R8.
ST-SB03 200-210	Total Copper	<b>44.2/ 90.5</b> (75-125)	6.88 (20)	As the potential bias was considered to be low, the total copper and total manganese results were flagged with a M2.
	Total Manganese	96.6/ <b>37.2</b> (75-125)	11.96 (20)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

R8 = Sample RPD exceeded the method acceptance criteria.

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 200-210

ACZ Sample ID: **L72397-01**  
 Date Sampled: 10/03/08 12:52  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/30/08 4:22	erf
Arsenic, total (3050)	M6020 ICP-MS	3.1			mg/Kg	0.3	1	11/01/08 22:14	rac
Barium, total (3050)	M6010B ICP	72.2			mg/Kg	0.3	2	10/29/08 10:52	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/29/08 10:52	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 10:52	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 10:52	aeh
Cobalt, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	10/29/08 10:52	aeh
Copper, total (3050)	M6010B ICP	306		*	mg/Kg	1	5	10/29/08 10:52	aeh MZ
Lead, total (3050)	M6020 ICP-MS	23.20		*	mg/Kg	0.05	0.3	10/30/08 4:22	erf
Manganese, total (3050)	M6010B ICP	217		*	mg/Kg	0.5	3	10/29/08 10:52	aeh MZ
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 9:53	pmc
Molybdenum, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	10/29/08 10:52	aeh
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/29/08 10:52	aeh
Selenium, total (3050)	M6020 ICP-MS	0.16	B		mg/Kg	0.05	0.3	11/01/08 22:14	rac
Thallium, total (3050)	M6020 ICP-MS	0.27	B		mg/Kg	0.05	0.3	11/01/08 22:14	rac
Uranium, total (3050)	M6020 ICP-MS	1.83		*	mg/Kg	0.05	0.3	10/30/08 4:22	erf
Zinc, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	10/29/08 10:52	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.9		*	%	0.1	0.5	10/16/08 18:26	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:30	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 10:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:15	mjc

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EQ 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 0-20

ACZ Sample ID: **L72397-02**  
 Date Sampled: 10/05/08 12:07  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	2.4		*	mg/Kg	0.2	1	10/30/08 4:28	erf
Arsenic, total (3050)	M6020 ICP-MS	3.2			mg/Kg	0.3	1	11/01/08 22:20	rac
Barium, total (3050)	M6010B ICP	69.3			mg/Kg	0.3	2	10/29/08 11:12	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 11:12	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:12	aeh
Chromium, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	10/29/08 11:12	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:12	aeh
Copper, total (3050)	M6010B ICP	311		*	mg/Kg	1	5	10/29/08 11:12	aeh
Lead, total (3050)	M6020 ICP-MS	3.53			mg/Kg	0.05	0.3	11/01/08 22:20	rac
Manganese, total (3050)	M6010B ICP	240		*	mg/Kg	0.5	3	10/29/08 11:12	aeh
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.04	0.2	10/29/08 10:01	pmc
Molybdenum, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	10/29/08 11:12	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:12	aeh
Selenium, total (3050)	M6020 ICP-MS	0.59			mg/Kg	0.05	0.3	11/01/08 22:20	rac
Thallium, total (3050)	M6020 ICP-MS	0.20	B		mg/Kg	0.05	0.3	11/01/08 22:20	rac
Uranium, total (3050)	M6020 ICP-MS	5.39		*	mg/Kg	0.05	0.3	10/30/08 4:28	erf
Zinc, total (3050)	M6010B ICP	33		*	mg/Kg	1	5	10/29/08 11:12	aeh

MZ, R8

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.0		*	%	0.1	0.5	10/16/08 23:22	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:35	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 10:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:20	mjc

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EE 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 20-40

ACZ Sample ID: **L72397-03**  
 Date Sampled: 10/05/08 12:27  
 Date Received: 10/10/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 4:58	erf
Arsenic, total (3050)	M6020 ICP-MS	1.3			mg/Kg	0.3	1	11/01/08 22:48	rac
Barium, total (3050)	M6010B ICP	90.2			mg/Kg	0.3	2	10/29/08 11:15	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	10/29/08 11:15	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:15	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:15	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:15	aeh
Copper, total (3050)	M6010B ICP	392		*	mg/Kg	1	5	10/29/08 11:15	aeh
Lead, total (3050)	M6020 ICP-MS	2.91			mg/Kg	0.05	0.3	11/01/08 22:48	rac
Manganese, total (3050)	M6010B ICP	192		*	mg/Kg	0.5	3	10/29/08 11:15	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:03	pmc
Molybdenum, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	10/29/08 11:15	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:15	aeh
Selenium, total (3050)	M6020 ICP-MS	0.60			mg/Kg	0.05	0.3	11/01/08 22:48	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B		mg/Kg	0.05	0.3	11/01/08 22:48	rac
Uranium, total (3050)	M6020 ICP-MS	4.12		*	mg/Kg	0.05	0.3	10/30/08 4:58	erf
Zinc, total (3050)	M6010B ICP	32		*	mg/Kg	1	5	10/29/08 11:15	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.7		*	%	0.1	0.5	10/17/08 4:18	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:40	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 11:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:25	mjc

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EE 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 40-60

ACZ Sample ID: **L72397-04**  
 Date Sampled: 10/05/08 12:57  
 Date Received: 10/10/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 5:04	erf
Arsenic, total (3050)	M6020 ICP-MS	2.1			mg/Kg	0.3	1	11/01/08 22:54	rac
Barium, total (3050)	M6010B ICP	67.2			mg/Kg	0.3	2	10/29/08 11:19	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 11:19	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:19	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:19	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:19	aeh
Copper, total (3050)	M6010B ICP	376		*	mg/Kg	1	5	10/29/08 11:19	aeh
Lead, total (3050)	M6020 ICP-MS	4.14			mg/Kg	0.05	0.3	11/01/08 22:54	rac
Manganese, total (3050)	M6010B ICP	223		*	mg/Kg	0.5	3	10/29/08 11:19	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	10/29/08 10:05	pmc
Molybdenum, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	10/29/08 11:19	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:19	aeh
Selenium, total (3050)	M6020 ICP-MS	1.31			mg/Kg	0.05	0.3	11/01/08 22:54	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B		mg/Kg	0.05	0.3	11/01/08 22:54	rac
Uranium, total (3050)	M6020 ICP-MS	6.00		*	mg/Kg	0.05	0.3	10/30/08 5:04	erf
Zinc, total (3050)	M6010B ICP	32		*	mg/Kg	1	5	10/29/08 11:19	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.1		*	%	0.1	0.5	10/17/08 9:14	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:45	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 11:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:30	mjc

Arizona license number: AZ0102

ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 60-80

ACZ Sample ID: L72397-05  
 Date Sampled: 10/05/08 13:17  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/30/08 5:10	erf
Arsenic, total (3050)	M6020 ICP-MS	3.5			mg/Kg	0.3	1	11/01/08 22:59	rac
Barium, total (3050)	M6010B ICP	70.7			mg/Kg	0.3	2	10/29/08 11:22	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 11:22	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/29/08 11:22	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:22	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:22	aeh
Copper, total (3050)	M6010B ICP	437		*	mg/Kg	1	5	10/29/08 11:22	aeh
Lead, total (3050)	M6020 ICP-MS	5.33		*	mg/Kg	0.05	0.3	10/30/08 5:10	erf
Manganese, total (3050)	M6010B ICP	258		*	mg/Kg	0.5	3	10/29/08 11:22	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	10/29/08 10:08	pmc
Molybdenum, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	10/29/08 11:22	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:22	aeh
Selenium, total (3050)	M6020 ICP-MS	0.86			mg/Kg	0.05	0.3	11/01/08 22:59	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	11/01/08 22:59	rac
Uranium, total (3050)	M6020 ICP-MS	5.13		*	mg/Kg	0.05	0.3	10/30/08 5:10	erf
Zinc, total (3050)	M6010B ICP	39		*	mg/Kg	1	5	10/29/08 11:22	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.4		*	%	0.1	0.5	10/17/08 14:10	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:51	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 12:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:36	mjc

Arizona license number: AZ0102

EE 11/12/08

**FMI Gold & Copper - Sierra**

Project ID: OJ07R9  
 Sample ID: ST-SB04 80-100

ACZ Sample ID: **L72397-06**  
 Date Sampled: 10/05/08 13:37  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 5:16	erf
Arsenic, total (3050)	M6020 ICP-MS	4.4			mg/Kg	0.3	1	11/01/08 23:05	rac
Barium, total (3050)	M6010B ICP	88.8			mg/Kg	0.3	2	10/29/08 11:25	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/29/08 11:25	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:25	aeh
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	10/29/08 11:25	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/29/08 11:25	aeh
Copper, total (3050)	M6010B ICP	368		*	mg/Kg	1	5	10/29/08 11:25	aeh
Lead, total (3050)	M6020 ICP-MS	12.70		*	mg/Kg	0.05	0.3	10/30/08 5:16	erf
Manganese, total (3050)	M6010B ICP	463		*	mg/Kg	0.5	3	10/29/08 11:25	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:15	pmc
Molybdenum, total (3050)	M6010B ICP	120		*	mg/Kg	1	5	10/29/08 11:25	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:25	aeh
Selenium, total (3050)	M6020 ICP-MS	1.20			mg/Kg	0.05	0.3	11/01/08 23:05	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	11/01/08 23:05	rac
Uranium, total (3050)	M6020 ICP-MS	5.37		*	mg/Kg	0.05	0.3	10/30/08 5:16	erf
Zinc, total (3050)	M6010B ICP	85		*	mg/Kg	1	5	10/29/08 11:25	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.8		*	%	0.1	0.5	10/17/08 19:06	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:56	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 12:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:41	mjc

Arizona license number: AZ0102

*Er 11/12/08*

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: ST-SB04 100-120

ACZ Sample ID: L72397-07  
Date Sampled: 10/06/08 08:37  
Date Received: 10/10/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/30/08 5:22	erf
Arsenic, total (3050)	M6020 ICP-MS	4.2			mg/Kg	0.3	1	11/01/08 23:11	rac
Barium, total (3050)	M6010B ICP	78.8			mg/Kg	0.3	2	10/29/08 11:29	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/29/08 11:29	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:29	aeh
Chromium, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/29/08 11:29	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/29/08 11:29	aeh
Copper, total (3050)	M6010B ICP	654		*	mg/Kg	1	5	10/29/08 11:29	aeh
Lead, total (3050)	M6020 ICP-MS	11.70		*	mg/Kg	0.05	0.3	10/30/08 5:22	erf
Manganese, total (3050)	M6010B ICP	508		*	mg/Kg	0.5	3	10/29/08 11:29	aeh
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.05	0.2	10/29/08 10:17	pmc
Molybdenum, total (3050)	M6010B ICP	104		*	mg/Kg	1	5	10/29/08 11:29	aeh
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/29/08 11:29	aeh
Selenium, total (3050)	M6020 ICP-MS	1.29			mg/Kg	0.05	0.3	11/01/08 23:11	rac
Thallium, total (3050)	M6020 ICP-MS	0.20	B		mg/Kg	0.05	0.3	11/01/08 23:11	rac
Uranium, total (3050)	M6020 ICP-MS	5.95		*	mg/Kg	0.05	0.3	10/30/08 5:22	erf
Zinc, total (3050)	M6010B ICP	119		*	mg/Kg	1	5	10/29/08 11:29	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	83.6		*	%	0.1	0.5	10/18/08 0:02	mjc

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:01	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 12:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:46	mjc

Arizona license number: AZ0102

ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 120-140

ACZ Sample ID: **L72397-08**  
 Date Sampled: 10/06/08 09:22  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 5:29	erf
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	1	11/01/08 23:17	rac
Barium, total (3050)	M6010B ICP	63.6			mg/Kg	0.3	2	10/29/08 11:32	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/29/08 11:32	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:32	aeh
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/29/08 11:32	aeh
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/29/08 11:32	aeh
Copper, total (3050)	M6010B ICP	156		*	mg/Kg	1	5	10/29/08 11:32	aeh
Lead, total (3050)	M6020 ICP-MS	6.24		*	mg/Kg	0.05	0.3	10/30/08 5:29	erf
Manganese, total (3050)	M6010B ICP	208		*	mg/Kg	0.5	3	10/29/08 11:32	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:19	pmc
Molybdenum, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/29/08 11:32	aeh
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/29/08 11:32	aeh
Selenium, total (3050)	M6020 ICP-MS	0.10	B		mg/Kg	0.05	0.3	11/01/08 23:17	rac
Thallium, total (3050)	M6020 ICP-MS	0.11	B		mg/Kg	0.05	0.3	11/01/08 23:17	rac
Uranium, total (3050)	M6020 ICP-MS	1.30		*	mg/Kg	0.05	0.3	10/30/08 5:29	erf
Zinc, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	10/29/08 11:32	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.5		*	%	0.1	0.5	10/18/08 4:58	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:07	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 12:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:52	mjc

Arizona license number: **AZ0102**

ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 0-20

ACZ Sample ID: **L72397-09**  
 Date Sampled: 10/02/08 12:22  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/30/08 5:35	erf
Arsenic, total (3050)	M6020 ICP-MS	1.9			mg/Kg	0.3	1	11/01/08 23:22	rac
Barium, total (3050)	M6010B ICP	71.7			mg/Kg	0.3	2	10/29/08 11:35	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	10/29/08 11:35	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/29/08 11:35	aeh
Chromium, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/29/08 11:35	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:35	aeh
Copper, total (3050)	M6010B ICP	258		*	mg/Kg	1	5	10/29/08 11:35	aeh
Lead, total (3050)	M6020 ICP-MS	3.40			mg/Kg	0.05	0.3	11/01/08 23:22	rac
Manganese, total (3050)	M6010B ICP	211		*	mg/Kg	0.5	3	10/29/08 11:35	aeh
Mercury, total	M7471A CVAA	0.07	B		mg/Kg	0.04	0.2	10/29/08 10:22	pmc
Molybdenum, total (3050)	M6010B ICP	40		*	mg/Kg	1	5	10/29/08 11:35	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:35	aeh
Selenium, total (3050)	M6020 ICP-MS	0.65			mg/Kg	0.05	0.3	11/01/08 23:22	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B		mg/Kg	0.05	0.3	11/01/08 23:22	rac
Uranium, total (3050)	M6020 ICP-MS	4.60		*	mg/Kg	0.05	0.3	10/30/08 5:35	erf
Zinc, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	10/29/08 11:35	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.1		*	%	0.1	0.5	10/18/08 9:54	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:12	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 13:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 12:57	mjc

Arizona license number: AZ0102

ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 20-40

ACZ Sample ID: **L72397-10**  
 Date Sampled: 10/02/08 12:47  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	10/30/08 5:47	erf
Arsenic, total (3050)	M6020 ICP-MS	1.6			mg/Kg	0.3	1	11/01/08 23:28	rac
Barium, total (3050)	M6010B ICP	91.0			mg/Kg	0.3	2	10/29/08 11:38	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 11:38	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/29/08 11:38	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:38	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:38	aeh
Copper, total (3050)	M6010B ICP	289		*	mg/Kg	1	5	10/29/08 11:38	aeh
Lead, total (3050)	M6020 ICP-MS	4.44			mg/Kg	0.05	0.3	11/01/08 23:28	rac
Manganese, total (3050)	M6010B ICP	223		*	mg/Kg	0.5	3	10/29/08 11:38	aeh
Mercury, total	M7471A CVAA	0.06	B		mg/Kg	0.04	0.2	10/29/08 10:24	pmc
Molybdenum, total (3050)	M6010B ICP	34		*	mg/Kg	1	5	10/29/08 11:38	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:38	aeh
Selenium, total (3050)	M6020 ICP-MS	0.80			mg/Kg	0.05	0.3	11/01/08 23:28	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B		mg/Kg	0.05	0.3	11/01/08 23:28	rac
Uranium, total (3050)	M6020 ICP-MS	5.23		*	mg/Kg	0.05	0.3	10/30/08 5:47	erf
Zinc, total (3050)	M6010B ICP	31		*	mg/Kg	1	5	10/29/08 11:38	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	81.8		*	%	0.1	0.5	10/18/08 14:50	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:17	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 13:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:02	mjc

Arizona license number: AZ0102

ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 40-60

ACZ Sample ID: L72397-11  
 Date Sampled: 10/02/08 13:07  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	10/30/08 6:05	erf
Arsenic, total (3050)	M6020 ICP-MS	2.3			mg/Kg	0.3	1	11/01/08 23:34	rac
Barium, total (3050)	M6010B ICP	71.1			mg/Kg	0.3	2	10/29/08 11:42	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 11:42	aeh
Cadmium, total (3050)	M6010B ICP			U	mg/Kg	0.5	2	10/29/08 11:42	aeh
Chromium, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 11:42	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:42	aeh
Copper, total (3050)	M6010B ICP	325		*	mg/Kg	1	5	10/29/08 11:42	aeh
Lead, total (3050)	M6020 ICP-MS	4.00			mg/Kg	0.05	0.3	11/01/08 23:34	rac
Manganese, total (3050)	M6010B ICP	208		*	mg/Kg	0.5	3	10/29/08 11:42	aeh
Mercury, total	M7471A CVAA			U	mg/Kg	0.04	0.2	10/29/08 10:27	pmc
Molybdenum, total (3050)	M6010B ICP	41		*	mg/Kg	1	5	10/29/08 11:42	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:42	aeh
Selenium, total (3050)	M6020 ICP-MS	0.78			mg/Kg	0.05	0.3	11/01/08 23:34	rac
Thallium, total (3050)	M6020 ICP-MS	0.13	B		mg/Kg	0.05	0.3	11/01/08 23:34	rac
Uranium, total (3050)	M6020 ICP-MS	4.77		*	mg/Kg	0.05	0.3	10/30/08 6:05	erf
Zinc, total (3050)	M6010B ICP	26		*	mg/Kg	1	5	10/29/08 11:42	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.2		*	%	0.1	0.5	10/18/08 19:46	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:23	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 13:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:08	mjc

Arizona license number: AZ0102

*Er 11/12/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 60-80

ACZ Sample ID: L72397-12  
 Date Sampled: 10/02/08 13:32  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:11	erf
Arsenic, total (3050)	M6020 ICP-MS	2.7			mg/Kg	0.3	1	11/01/08 23:39	rac
Barium, total (3050)	M6010B ICP	79.8			mg/Kg	0.3	2	10/29/08 11:52	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/29/08 11:52	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:52	aeh
Chromium, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:52	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:52	aeh
Copper, total (3050)	M6010B ICP	398		*	mg/Kg	1	5	10/29/08 11:52	aeh
Lead, total (3050)	M6020 ICP-MS	6.28		*	mg/Kg	0.05	0.3	10/30/08 6:11	erf
Manganese, total (3050)	M6010B ICP	277		*	mg/Kg	0.5	3	10/29/08 11:52	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	10/29/08 10:29	pmc
Molybdenum, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	10/29/08 11:52	aeh
Nickel, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 11:52	aeh
Selenium, total (3050)	M6020 ICP-MS	0.79			mg/Kg	0.05	0.3	11/01/08 23:39	rac
Thallium, total (3050)	M6020 ICP-MS	0.16	B		mg/Kg	0.05	0.3	11/01/08 23:39	rac
Uranium, total (3050)	M6020 ICP-MS	4.73		*	mg/Kg	0.05	0.3	10/30/08 6:11	erf
Zinc, total (3050)	M6010B ICP	36		*	mg/Kg	1	5	10/29/08 11:52	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.2		*	%	0.1	0.5	10/19/08 0:42	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:28	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 13:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:13	mjc

Arizona license number: AZ0102

*EE 11/12/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 80-100

ACZ Sample ID: **L72397-13**  
 Date Sampled: 10/02/08 14:17  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:17	erf
Arsenic, total (3050)	M6020 ICP-MS	2.4			mg/Kg	0.3	1	11/01/08 23:56	rac
Barium, total (3050)	M6010B ICP	77.1			mg/Kg	0.3	2	10/29/08 11:55	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/29/08 11:55	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:55	aeh
Chromium, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	10/29/08 11:55	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/29/08 11:55	aeh
Copper, total (3050)	M6010B ICP	477		*	mg/Kg	1	5	10/29/08 11:55	aeh
Lead, total (3050)	M6020 ICP-MS	9.33		*	mg/Kg	0.05	0.3	10/30/08 6:17	erf
Manganese, total (3050)	M6010B ICP	360		*	mg/Kg	0.5	3	10/29/08 11:55	aeh
Mercury, total	M7471A CVAA	0.05	B		mg/Kg	0.04	0.2	10/29/08 10:32	pmc
Molybdenum, total (3050)	M6010B ICP	54		*	mg/Kg	1	5	10/29/08 11:55	aeh
Nickel, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	10/29/08 11:55	aeh
Selenium, total (3050)	M6020 ICP-MS	1.09			mg/Kg	0.05	0.3	11/01/08 23:56	rac
Thallium, total (3050)	M6020 ICP-MS	0.18	B		mg/Kg	0.05	0.3	11/01/08 23:56	rac
Uranium, total (3050)	M6020 ICP-MS	4.78		*	mg/Kg	0.05	0.3	10/30/08 6:17	erf
Zinc, total (3050)	M6010B ICP	80		*	mg/Kg	1	5	10/29/08 11:55	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	84.8		*	%	0.1	0.5	10/19/08 5:38	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:33	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 14:00	bjl
Sieve-2000 µm (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:18	mjc

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*ER 11/12/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 100-120

ACZ Sample ID: **L72397-14**  
 Date Sampled: 10/03/08 08:57  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:23	erf
Arsenic, total (3050)	M6020 ICP-MS	3.0			mg/Kg	0.3	1	11/02/08 0:02	rac
Barium, total (3050)	M6010B ICP	89.6			mg/Kg	0.3	2	10/29/08 11:58	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/29/08 11:58	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 11:58	aeh
Chromium, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/29/08 11:58	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/29/08 11:58	aeh
Copper, total (3050)	M6010B ICP	443		*	mg/Kg	1	5	10/29/08 11:58	aeh
Lead, total (3050)	M6020 ICP-MS	12.10		*	mg/Kg	0.05	0.3	10/30/08 6:23	erf
Manganese, total (3050)	M6010B ICP	476		*	mg/Kg	0.5	3	10/29/08 11:58	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.05	0.2	10/29/08 10:34	pmc
Molybdenum, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	10/29/08 11:58	aeh
Nickel, total (3050)	M6010B ICP	5	B	*	mg/Kg	1	5	10/29/08 11:58	aeh
Selenium, total (3050)	M6020 ICP-MS	1.30			mg/Kg	0.05	0.3	11/02/08 0:02	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B		mg/Kg	0.05	0.3	11/02/08 0:02	rac
Uranium, total (3050)	M6020 ICP-MS	6.71		*	mg/Kg	0.05	0.3	10/30/08 6:23	erf
Zinc, total (3050)	M6010B ICP	147		*	mg/Kg	1	5	10/29/08 11:58	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	78.1		*	%	0.1	0.5	10/19/08 10:34	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:38	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 14:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:23	mjc

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EQ 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 120-140

ACZ Sample ID: L72397-15  
 Date Sampled: 10/03/08 09:37  
 Date Received: 10/10/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:30	erf
Arsenic, total (3050)	M6020 ICP-MS	1.8			mg/Kg	0.3	1	11/02/08 0:08	rac
Barium, total (3050)	M6010B ICP	114			mg/Kg	0.3	2	10/29/08 12:01	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/29/08 12:01	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 12:01	aeh
Chromium, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/29/08 12:01	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/29/08 12:01	aeh
Copper, total (3050)	M6010B ICP	373		*	mg/Kg	1	5	10/29/08 12:01	aeh
Lead, total (3050)	M6020 ICP-MS	5.46		*	mg/Kg	0.05	0.3	10/30/08 6:30	erf
Manganese, total (3050)	M6010B ICP	272		*	mg/Kg	0.5	3	10/29/08 12:01	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:36	pmc
Molybdenum, total (3050)	M6010B ICP	45		*	mg/Kg	1	5	10/29/08 12:01	aeh
Nickel, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/29/08 12:01	aeh
Selenium, total (3050)	M6020 ICP-MS	0.92			mg/Kg	0.05	0.3	11/02/08 0:08	rac
Thallium, total (3050)	M6020 ICP-MS	0.17	B		mg/Kg	0.05	0.3	11/02/08 0:08	rac
Uranium, total (3050)	M6020 ICP-MS	5.42		*	mg/Kg	0.05	0.3	10/30/08 6:30	erf
Zinc, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	10/29/08 12:01	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	81.1		*	%	0.1	0.5	10/19/08 15:30	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:44	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 14:30	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:29	mjc

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ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 140-160

ACZ Sample ID: L72397-16  
 Date Sampled: 10/03/08 10:22  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:36	erf
Arsenic, total (3050)	M6020 ICP-MS	2.0			mg/Kg	0.3	1	11/02/08 0:13	rac
Barium, total (3050)	M6010B ICP	103			mg/Kg	0.3	2	10/29/08 12:05	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	10/29/08 12:05	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 12:05	aeh
Chromium, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	10/29/08 12:05	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	10/29/08 12:05	aeh
Copper, total (3050)	M6010B ICP	277		*	mg/Kg	1	5	10/29/08 12:05	aeh
Lead, total (3050)	M6020 ICP-MS	8.17		*	mg/Kg	0.05	0.3	10/30/08 6:36	erf
Manganese, total (3050)	M6010B ICP	314		*	mg/Kg	0.5	3	10/29/08 12:05	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:43	pmc
Molybdenum, total (3050)	M6010B ICP	44		*	mg/Kg	1	5	10/29/08 12:05	aeh
Nickel, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/29/08 12:05	aeh
Selenium, total (3050)	M6020 ICP-MS	0.97			mg/Kg	0.05	0.3	11/02/08 0:13	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B		mg/Kg	0.05	0.3	11/02/08 0:13	rac
Uranium, total (3050)	M6020 ICP-MS	4.38		*	mg/Kg	0.05	0.3	10/30/08 6:36	erf
Zinc, total (3050)	M6010B ICP	52		*	mg/Kg	1	5	10/29/08 12:05	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	79.5		*	%	0.1	0.5	10/19/08 20:26	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:49	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 14:45	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:34	mjc

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ER 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 160-180

ACZ Sample ID: **L72397-17**  
 Date Sampled: 10/03/08 11:42  
 Date Received: 10/10/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:42	erf
Arsenic, total (3050)	M6020 ICP-MS	2.4			mg/Kg	0.3	1	11/02/08 0:19	rac
Barium, total (3050)	M6010B ICP	114			mg/Kg	0.3	2	10/29/08 12:08	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	10/29/08 12:08	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 12:08	aeh
Chromium, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	10/29/08 12:08	aeh
Cobalt, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	10/29/08 12:08	aeh
Copper, total (3050)	M6010B ICP	279		*	mg/Kg	1	5	10/29/08 12:08	aeh
Lead, total (3050)	M6020 ICP-MS	6.79		*	mg/Kg	0.05	0.3	10/30/08 6:42	erf
Manganese, total (3050)	M6010B ICP	325		*	mg/Kg	0.5	3	10/29/08 12:08	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:45	pmc
Molybdenum, total (3050)	M6010B ICP	38		*	mg/Kg	1	5	10/29/08 12:08	aeh
Nickel, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	10/29/08 12:08	aeh
Selenium, total (3050)	M6020 ICP-MS	1.62			mg/Kg	0.05	0.3	11/02/08 0:19	rac
Thallium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	11/02/08 0:19	rac
Uranium, total (3050)	M6020 ICP-MS	4.07		*	mg/Kg	0.05	0.3	10/30/08 6:42	erf
Zinc, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	10/29/08 12:08	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	86.1		*	%	0.1	0.5	10/20/08 1:22	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 13:54	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 15:00	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:39	mjc

Arizona license number: AZ0102

EE 11/12/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 180-200

ACZ Sample ID: **L72397-18**  
 Date Sampled: 10/03/08 12:27  
 Date Received: 10/10/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	10/30/08 6:48	erf
Arsenic, total (3050)	M6020 ICP-MS	1.8			mg/Kg	0.3	1	11/02/08 0:25	rac
Barium, total (3050)	M6010B ICP	28.5			mg/Kg	0.3	2	10/29/08 12:11	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	10/29/08 12:11	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/29/08 12:11	aeh
Chromium, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 12:11	aeh
Cobalt, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/29/08 12:11	aeh
Copper, total (3050)	M6010B ICP	111		*	mg/Kg	1	5	10/29/08 12:11	aeh
Lead, total (3050)	M6020 ICP-MS	6.47		*	mg/Kg	0.05	0.3	10/30/08 6:48	erf
Manganese, total (3050)	M6010B ICP	113		*	mg/Kg	0.5	3	10/29/08 12:11	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	10/29/08 10:47	pmc
Molybdenum, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	10/29/08 12:11	aeh
Nickel, total (3050)	M6010B ICP	2	B	*	mg/Kg	1	5	10/29/08 12:11	aeh
Selenium, total (3050)	M6020 ICP-MS	0.09	B		mg/Kg	0.05	0.3	11/02/08 0:25	rac
Thallium, total (3050)	M6020 ICP-MS	0.06	B		mg/Kg	0.05	0.3	11/02/08 0:25	rac
Uranium, total (3050)	M6020 ICP-MS	1.22		*	mg/Kg	0.05	0.3	10/30/08 6:48	erf
Zinc, total (3050)	M6010B ICP	20		*	mg/Kg	1	5	10/29/08 12:11	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.7		*	%	0.1	0.5	10/20/08 6:18	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 14:00	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/27/08 15:15	bjl
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/24/08 13:45	mjc

Arizona license number: AZ0102

ER 11/12/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L72452

Sampling Event: August 11<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 11/12/08

Peer Reviewer: Geoff Webb

Date Completed: 11/13/08

This report summarizes the verification of analytical data for 6 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
RA-SD-02-0-1.5D	SA	L72452-01	S	X <sup>m</sup>
RA-SD-02-1.5-3.0D	SA	L72452-02	S	X <sup>m</sup>
RA-SD-01-0-1.5D	SA	L72452-03	S	X
RA-SD-01-1.5-3.0D	SA	L72452-04	S	X
RA-JS-02-0-1D	SA	L72452-05	S	X
RA-JS-02-1-3D	SA	L72452-06	S	X

Matrix: S = Soil                      QC Type: SA = Sample  
 X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.  
 m = Matrix spike and/ or matrix spike duplicate.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 0.8°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD RA-SD-02-1.5-3.0D (Antimony, Arsenic, Lead, Selenium, Thallium, Uranium)</li> <li>RA-SD-02-0-1.5D (Barium, Beryllium, Cadmium, Chromium, Cobalt, Copper, Manganese, Molybdenum, Nickel, Zinc)</li> <li>• LD RA-SD-02-0-1.5D (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
<ul style="list-style-type: none"> <li>• Internal Standards</li> </ul>		
Field QC	N/A	A field duplicate sample was not collected with this sampling event.
<ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Duplicate</li> </ul> N/A		
<ul style="list-style-type: none"> <li>• Field Blank</li> </ul> N/A		
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	Yes	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
RA-SD-02-1.5-3.0D	Total Antimony	<b>19.2/ 36.8</b> (75-125)	8.23 (20)	As the potential bias was considered to be low, the total antimony, total antimony, and total lead results were flagged with a M2.
	Total Arsenic	<b>39.4/ 65.8</b> (75-125)	9.76 (20)	
	Total Lead	<b>48.9/ 82.1</b> (75-125)	8.03 (20)	

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

RPD = Relative Percent Difference

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-SD-02-0-1.5D

ACZ Sample ID: **L72452-01**  
 Date Sampled: 08/11/08 09:10  
 Date Received: 10/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	4.3		*	mg/Kg	0.2	1	10/25/08 14:51	rac
Arsenic, total (3050)	M6020 ICP-MS	26.6		*	mg/Kg	0.3	0.5	10/25/08 14:51	rac
Barium, total (3050)	M6010B ICP	56.6			mg/Kg	0.3	2	10/24/08 23:44	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	10/24/08 23:44	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/24/08 23:44	aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/24/08 23:44	aeh
Cobalt, total (3050)	M6010B ICP	3	B	*	mg/Kg	1	5	10/24/08 23:44	aeh
Copper, total (3050)	M6010B ICP	4240		*	mg/Kg	1	5	10/24/08 23:44	aeh
Lead, total (3050)	M6020 ICP-MS	137		*	mg/Kg	0.05	0.3	10/25/08 14:51	rac
Manganese, total (3050)	M6010B ICP	115			mg/Kg	0.5	3	10/24/08 23:44	aeh
Mercury, total	M7471A CVAA	0.09	BH	*	mg/Kg	0.04	0.2	10/22/08 11:13	pmc
Molybdenum, total (3050)	M6010B ICP	550		*	mg/Kg	1	5	10/28/08 0:54	aeh
Nickel, total (3050)	M6010B ICP	2	B		mg/Kg	1	5	10/24/08 23:44	aeh
Selenium, total (3050)	M6020 ICP-MS	4.12			mg/Kg	0.05	0.3	10/25/08 14:51	rac
Thallium, total (3050)	M6020 ICP-MS	0.31		*	mg/Kg	0.05	0.3	10/28/08 22:39	rac
Uranium, total (3050)	M6020 ICP-MS	1.63		*	mg/Kg	0.05	0.3	10/25/08 14:51	rac
Zinc, total (3050)	M6010B ICP	44			mg/Kg	1	5	10/24/08 23:44	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.2		*	%	0.1	0.5	10/16/08 12:00	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 11:30	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 2:45	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 11:30	mjc

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**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: RA-SD-02-1.5-3.0D

ACZ Sample ID: **L72452-02**  
 Date Sampled: 08/11/08 09:30  
 Date Received: 10/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	9.4		*	mg/Kg	0.2	1	10/25/08 14:57	rac MZ
Arsenic, total (3050)	M6020 ICP-MS	55.1		*	mg/Kg	0.3	0.5	10/25/08 14:57	rac MZ
Barium, total (3050)	M6010B ICP	99.6			mg/Kg	0.3	2	10/25/08 0:06	aeH
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/25/08 0:06	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/25/08 0:06	aeH
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	10/25/08 0:06	aeH
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	10/25/08 0:06	aeH
Copper, total (3050)	M6010B ICP	4790		*	mg/Kg	1	5	10/25/08 0:06	aeH
Lead, total (3050)	M6020 ICP-MS	87.80		*	mg/Kg	0.05	0.3	10/25/08 14:57	rac MZ
Manganese, total (3050)	M6010B ICP	175			mg/Kg	0.5	3	10/25/08 0:06	aeH
Mercury, total	M7471A CVAA	0.10	BH	*	mg/Kg	0.05	0.2	10/22/08 11:15	pmc
Molybdenum, total (3050)	M6010B ICP	1430		*	mg/Kg	1	5	10/28/08 1:14	aeH
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/25/08 0:06	aeH
Selenium, total (3050)	M6020 ICP-MS	4.73			mg/Kg	0.05	0.3	10/25/08 14:57	rac
Thallium, total (3050)	M6020 ICP-MS	0.29	B	*	mg/Kg	0.05	0.3	10/28/08 22:43	rac
Uranium, total (3050)	M6020 ICP-MS	3.58		*	mg/Kg	0.05	0.3	10/25/08 14:57	rac
Zinc, total (3050)	M6010B ICP	86			mg/Kg	1	5	10/25/08 0:06	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	80.0		*	%	0.1	0.5	10/16/08 12:00	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 11:36	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 6:01	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 11:36	mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-SD-01-0-1.5D

ACZ Sample ID: **L72452-03**  
 Date Sampled: 08/11/08 09:50  
 Date Received: 10/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.8	B	*	mg/Kg	0.2	1	10/25/08 15:14	rac
Arsenic, total (3050)	M6020 ICP-MS	10.9		*	mg/Kg	0.3	0.5	10/25/08 15:14	rac
Barium, total (3050)	M6010B ICP	87.2			mg/Kg	0.3	2	10/25/08 0:09	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	10/25/08 0:09	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/25/08 0:09	aeh
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	10/25/08 0:09	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	10/25/08 0:09	aeh
Copper, total (3050)	M6010B ICP	3410		*	mg/Kg	1	5	10/25/08 0:09	aeh
Lead, total (3050)	M6020 ICP-MS	57.30		*	mg/Kg	0.05	0.3	10/25/08 15:14	rac
Manganese, total (3050)	M6010B ICP	344			mg/Kg	0.5	3	10/25/08 0:09	aeh
Mercury, total	M7471A CVAA		UH	*	mg/Kg	0.05	0.3	10/22/08 11:18	pmc
Molybdenum, total (3050)	M6010B ICP	1160		*	mg/Kg	1	5	10/28/08 1:17	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	10/25/08 0:09	aeh
Selenium, total (3050)	M6020 ICP-MS	3.66			mg/Kg	0.05	0.3	10/25/08 15:14	rac
Thallium, total (3050)	M6020 ICP-MS	0.30		*	mg/Kg	0.05	0.3	10/28/08 23:05	rac
Uranium, total (3050)	M6020 ICP-MS	4.32		*	mg/Kg	0.05	0.3	10/25/08 15:14	rac
Zinc, total (3050)	M6010B ICP	110			mg/Kg	1	5	10/25/08 0:09	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	73.7		*	%	0.1	0.5	10/16/08 12:00	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 11:42	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 9:17	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 11:42	mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-SD-01-1.5-3.0D

ACZ Sample ID: **L72452-04**  
 Date Sampled: 08/11/08 10:05  
 Date Received: 10/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	3.2		*	mg/Kg	0.2	1	10/25/08 15:19	rac
Arsenic, total (3050)	M6020 ICP-MS	21.5		*	mg/Kg	0.3	0.5	10/25/08 15:19	rac
Barium, total (3050)	M6010B ICP	77.3			mg/Kg	0.3	2	10/25/08 0:13	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/25/08 0:13	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	10/25/08 0:13	aeh
Chromium, total (3050)	M6010B ICP	13			mg/Kg	1	5	10/25/08 0:13	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	10/25/08 0:13	aeh
Copper, total (3050)	M6010B ICP	6150		*	mg/Kg	1	5	10/25/08 0:13	aeh
Lead, total (3050)	M6020 ICP-MS	95.50		*	mg/Kg	0.05	0.3	10/25/08 15:19	rac
Manganese, total (3050)	M6010B ICP	255			mg/Kg	0.5	3	10/25/08 0:13	aeh
Mercury, total	M7471A CVAA	0.09	BH	*	mg/Kg	0.05	0.3	10/22/08 11:20	pmc
Molybdenum, total (3050)	M6010B ICP	1090		*	mg/Kg	1	5	10/28/08 1:21	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	10/25/08 0:13	aeh
Selenium, total (3050)	M6020 ICP-MS	3.99			mg/Kg	0.05	0.3	10/25/08 15:19	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	10/28/08 23:10	rac
Uranium, total (3050)	M6020 ICP-MS	9.04		*	mg/Kg	0.05	0.3	10/25/08 15:19	rac
Zinc, total (3050)	M6010B ICP	150			mg/Kg	1	5	10/25/08 0:13	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	68.1		*	%	0.1	0.5	10/16/08 12:00	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 11:48	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 10:23	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 11:48	mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-02-0-1D

ACZ Sample ID: **L72452-05**  
 Date Sampled: 08/11/08 10:25  
 Date Received: 10/14/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	18.1		*	mg/Kg	0.4	2	10/25/08 15:25	rac
Arsenic, total (3050)	M6020 ICP-MS	81.6		*	mg/Kg	0.5	1	10/25/08 15:25	rac
Barium, total (3050)	M6010B ICP	70			mg/Kg	3	20	10/25/08 0:17	aeh
Beryllium, total (3050)	M6010B ICP		U		mg/Kg	2	10	10/25/08 0:17	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	5	20	10/25/08 0:17	aeh
Chromium, total (3050)	M6010B ICP		U		mg/Kg	10	50	10/25/08 0:17	aeh
Cobalt, total (3050)	M6010B ICP	30	B	*	mg/Kg	10	50	10/25/08 0:17	aeh
Copper, total (3050)	M6010B ICP	88000		*	mg/Kg	10	50	10/25/08 0:17	aeh
Lead, total (3050)	M6020 ICP-MS	326		*	mg/Kg	0.1	0.5	10/25/08 15:25	rac
Manganese, total (3050)	M6010B ICP	223			mg/Kg	5	30	10/25/08 0:17	aeh
Mercury, total	M7471A CVAA	0.09	BH	*	mg/Kg	0.05	0.2	10/22/08 11:23	pmc
Molybdenum, total (3050)	M6010B ICP	3430		*	mg/Kg	10	50	10/28/08 1:24	aeh
Nickel, total (3050)	M6010B ICP	10	B		mg/Kg	10	50	10/25/08 0:17	aeh
Selenium, total (3050)	M6020 ICP-MS	26.3			mg/Kg	0.1	0.5	10/25/08 15:25	rac
Thallium, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.1	0.5	10/28/08 23:14	rac
Uranium, total (3050)	M6020 ICP-MS	3.4		*	mg/Kg	0.1	0.5	10/25/08 15:25	rac
Zinc, total (3050)	M6010B ICP	540			mg/Kg	10	50	10/25/08 0:17	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	75.0		*	%	0.1	0.5	10/16/08 12:00	mjc

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 11:54	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 11:28	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 11:54	mjc

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*EE 11/12/08*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: RA-JS-02-1-3D

ACZ Sample ID: **L72452-06**  
 Date Sampled: 08/11/08 10:45  
 Date Received: 10/14/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	5.2		*	mg/Kg	0.2	1	10/25/08 15:31	rac
Arsenic, total (3050)	M6020 ICP-MS	44.9		*	mg/Kg	0.3	0.5	10/25/08 15:31	rac
Barium, total (3050)	M6010B ICP	73.7			mg/Kg	0.3	2	10/25/08 0:20	aeh
Beryllium, total (3050)	M6010B ICP	0.8	B		mg/Kg	0.2	1	10/25/08 0:20	aeh
Cadmium, total (3050)	M6010B ICP	1.4	B		mg/Kg	0.5	2	10/25/08 0:20	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	10/25/08 0:20	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	10/25/08 0:20	aeh
Copper, total (3050)	M6010B ICP	10600		*	mg/Kg	2	10	10/28/08 1:27	aeh
Lead, total (3050)	M6020 ICP-MS	134		*	mg/Kg	0.05	0.3	10/25/08 15:31	rac
Manganese, total (3050)	M6010B ICP	383			mg/Kg	0.5	3	10/25/08 0:20	aeh
Mercury, total	M7471A CVAA	0.22	BH	*	mg/Kg	0.05	0.3	10/22/08 11:25	pmc
Molybdenum, total (3050)	M6010B ICP	1950		*	mg/Kg	2	10	10/28/08 1:27	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	10/25/08 0:20	aeh
Selenium, total (3050)	M6020 ICP-MS	4.77			mg/Kg	0.05	0.3	10/25/08 15:31	rac
Thallium, total (3050)	M6020 ICP-MS	0.35		*	mg/Kg	0.05	0.3	10/28/08 23:18	rac
Uranium, total (3050)	M6020 ICP-MS	10.50		*	mg/Kg	0.05	0.3	10/25/08 15:31	rac
Zinc, total (3050)	M6010B ICP	426			mg/Kg	1	5	10/25/08 0:20	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	70.6		*	%	0.1	0.5	10/16/08 12:00	mjc

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				10/16/08 12:00	mjc
Digestion - Hot Plate	M3050B ICP-MS							10/22/08 12:33	bjl/brd
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				10/21/08 12:00	mjc

Arizona license number: AZ0102

EE 11/12/08

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L72871

Sampling Event: October 21<sup>st</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 02/10/09

Peer Reviewer: Geoff Webb

Date Completed: 02/10/09

This report summarizes the verification of analytical data for 18 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
ST-SB06 0-20	SA	L72871-01	S	X <sup>m</sup>
ST-SB06 20-40	SA	L72871-02	S	X
ST-SB06 40-60	SA	L72871-03	S	X
ST-SB06 60-80	SA	L72871-04	S	X
ST-SB06 80-100	SA	L72871-05	S	X
ST-SB06 100-120	SA	L72871-06	S	X
ST-SB06 120-140	SA	L72871-07	S	X
ST-SB06 140-160	SA	L72871-08	S	X
ST-SB06 160-180	SA	L72871-09	S	X
ST-SB06 180-200	SA	L72871-10	S	X
ST-SB06 200-220	SA	L72871-11	S	X
ST-SB06 220-240	SA	L72871-12	S	X
ST-SB06 240-260	SA	L72871-13	S	X
ST-SB06 260-280	SA	L72871-14	S	X
ST-SB06 280-300	SA	L72871-15	S	X
ST-SB06 300-320	SA	L72871-16	S	X
ST-SB06 300-320 D	FD	L72871-17	S	X
ST-SB06 260-280 MSD <sup>1</sup>	SA	L72871-18	S	X <sup>m</sup>

Matrix: S = Soil      QC Type: SA = Sample      FD = Field Duplicate

X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.<sup>1</sup> The sampler inadvertently listed the MS/MSD as a separate sample on the Chain of Custody, resulting in a field duplicate to sample ST-SB06 260-280.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- \_\_\_\_\_ Data are usable without qualification.
- X   Data are usable with qualification (noted below).
- \_\_\_\_\_ Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperatures were 2.4°C and 4.1°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD ST-SB06 260-280 MSD (Total Antimony, Total Arsenic, Total Lead, Total Selenium, Total Thallium, Total Uranium)</li> <li>ST-SB06 0-20 (Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Manganese, Total Mercury, Total Molybdenum, Total Nickel, Total Zinc)</li> <li>• LD ST-SB06 0-20 (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC	N/A	
<ul style="list-style-type: none"> <li>• Serial Dilution</li> </ul> N/A	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank</li> </ul> N/A <ul style="list-style-type: none"> <li>• Field Duplicate ST-SB06 300-320 D ST-SB06 260-280 MSD</li> <li>• Field Blank</li> </ul> N/A	Yes	<p>The sampler inadvertently listed the MS/MSD on a separate line on the Chain of Custody. The laboratory logged in the MS/MSD as a separate sample, creating a field duplicate to sample ST-SB06 260-280.</p> <p>All field duplicate pairs met the applicable evaluation criteria. Data qualification was not required.</p>
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	

Review Parameter	Criteria Met?	Comments
Other Parameters	No	The laboratory noted that the associated interferent check sample lead recovery exceeded the control limits of 80-120%. As only a quality control data package was provided, raw data is not available to determine the presence of interferent elements in the samples. To be conservative, all sample lead results were qualified as estimated (N6), but are considered usable as qualified.

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
ST-SB06 260-280 MSD	Total Antimony	<b>50.4/ 47.6</b> (75-125)	5.28 (20)	As the potential bias was considered to be low, the total antimony and total arsenic results for the associated parent sample were flagged with a M2.
	Total Arsenic	<b>65/ 65.2</b> (75-125)	0.22 (20)	
ST-SB06 0-20	Total Molybdenum	<b>128.6/ 71</b> (75-125)	<b>29.42</b> (20)	As the potential bias was considered to be indeterminate, the total molybdenum result for the associated parent sample was flagged with a M2 and M1. As the total molybdenum RPD was not within acceptance limits, the total molybdenum result was also flagged with an R8.

%R = Percent Recovery

M1 = Matrix spike recovery was high; the associated blank spike recovery was acceptable.

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

R8 = Sample RPD exceeded the method acceptance criteria.

RPD = Relative Percent Difference

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 0-20

ACZ Sample ID: **L72871-01**  
 Date Sampled: 10/21/08 11:48  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/11/08 22:21	rac
Arsenic, total (3050)	M6020 ICP-MS	1.2		*	mg/Kg	0.3	1	11/11/08 22:21	rac
Barium, total (3050)	M6010B ICP	83.6		*	mg/Kg	0.3	2	11/11/08 23:18	aeH
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	11/11/08 23:18	aeH
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:18	aeH
Chromium, total (3050)	M6010B ICP	5			mg/Kg	1	5	11/11/08 23:18	aeH
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	11/11/08 23:18	aeH
Copper, total (3050)	M6010B ICP	303		*	mg/Kg	1	5	11/11/08 23:18	aeH
Lead, total (3050)	M6020 ICP-MS <i>NG</i>	2.45			mg/Kg	0.05	0.3	11/19/08 13:04	rac
Manganese, total (3050)	M6010B ICP	187			mg/Kg	0.5	3	11/11/08 23:18	aeH
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:25	pmc
Molybdenum, total (3050)	M6010B ICP <i>M1, M2, R8</i>	48		*	mg/Kg	1	5	11/11/08 23:18	aeH
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	11/11/08 23:18	aeH
Selenium, total (3050)	M6020 ICP-MS	0.55			mg/Kg	0.05	0.3	11/11/08 22:21	rac
Thallium, total (3050)	M6020 ICP-MS	0.27	B	*	mg/Kg	0.05	0.3	11/11/08 22:21	rac
Uranium, total (3050)	M6020 ICP-MS	4.64		*	mg/Kg	0.05	0.3	11/11/08 22:21	rac
Zinc, total (3050)	M6010B ICP	28		*	mg/Kg	1	5	11/11/08 23:18	aeH

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.3		*	%	0.1	0.5	11/06/08 10:06	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:00	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 8:39	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 13:00	bjl

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*EE 2/10/09*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 20-40

ACZ Sample ID: L72871-02  
 Date Sampled: 10/21/08 14:37  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/11/08 22:32	rac
Arsenic, total (3050)	M6020 ICP-MS	1.3		*	mg/Kg	0.3	1	11/11/08 22:32	rac
Barium, total (3050)	M6010B ICP	91.7		*	mg/Kg	0.3	2	11/11/08 23:40	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	11/11/08 23:40	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:40	aeh
Chromium, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	11/11/08 23:40	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	11/11/08 23:40	aeh
Copper, total (3050)	M6010B ICP	454		*	mg/Kg	1	5	11/11/08 23:40	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	3.16			mg/Kg	0.05	0.3	11/19/08 13:13	rac
Manganese, total (3050)	M6010B ICP	174			mg/Kg	0.5	3	11/11/08 23:40	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:31	pmc
Molybdenum, total (3050)	M6010B ICP	47		*	mg/Kg	1	5	11/11/08 23:40	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	11/11/08 23:40	aeh
Selenium, total (3050)	M6020 ICP-MS	0.71			mg/Kg	0.05	0.3	11/11/08 22:32	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	11/11/08 22:32	rac
Uranium, total (3050)	M6020 ICP-MS	3.56		*	mg/Kg	0.05	0.3	11/11/08 22:32	rac
Zinc, total (3050)	M6010B ICP	37		*	mg/Kg	1	5	11/11/08 23:40	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.1		*	%	0.1	0.5	11/06/08 12:18	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:05	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 9:33	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 15:05	bjl

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EJ 2/10/09

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB06 40-60

ACZ Sample ID: **L72871-03**  
 Date Sampled: 10/22/08 09:07  
 Date Received: 11/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/11/08 22:38	rac
Arsenic, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.3	1	11/11/08 22:38	rac
Barium, total (3050)	M6010B ICP	73.8		*	mg/Kg	0.3	2	11/11/08 23:44	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/11/08 23:44	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:44	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	11/11/08 23:44	aeh
Cobalt, total (3050)	M6010B ICP	9		*	mg/Kg	1	5	11/11/08 23:44	aeh
Copper, total (3050)	M6010B ICP	387		*	mg/Kg	1	5	11/11/08 23:44	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	3.66			mg/Kg	0.05	0.3	11/19/08 13:17	rac
Manganese, total (3050)	M6010B ICP	225			mg/Kg	0.5	3	11/11/08 23:44	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.05	0.2	11/18/08 11:34	pmc
Molybdenum, total (3050)	M6010B ICP	63		*	mg/Kg	1	5	11/11/08 23:44	aeh
Nickel, total (3050)	M6010B ICP	5	B		mg/Kg	1	5	11/11/08 23:44	aeh
Selenium, total (3050)	M6020 ICP-MS	0.98			mg/Kg	0.05	0.3	11/11/08 22:38	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	11/11/08 22:38	rac
Uranium, total (3050)	M6020 ICP-MS	4.54		*	mg/Kg	0.05	0.3	11/11/08 22:38	rac
Zinc, total (3050)	M6010B ICP	50		*	mg/Kg	1	5	11/11/08 23:44	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	80.9		*	%	0.1	0.5	11/06/08 13:25	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:11	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 9:51	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 17:11	bjl

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*Handwritten:* E2 2/10/09

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 60-80

ACZ Sample ID: **L72871-04**

Date Sampled: 10/22/08 10:27

Date Received: 11/05/08

Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	11/11/08 22:55	rac
Arsenic, total (3050)	M6020 ICP-MS	3.8		*	mg/Kg	0.3	1	11/11/08 22:55	rac
Barium, total (3050)	M6010B ICP	51.1		*	mg/Kg	0.3	2	11/11/08 23:47	aeh
Beryllium, total (3050)	M6010B ICP	0.3	B		mg/Kg	0.2	1	11/11/08 23:47	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:47	aeh
Chromium, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	11/11/08 23:47	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	11/11/08 23:47	aeh
Copper, total (3050)	M6010B ICP	788		*	mg/Kg	1	5	11/11/08 23:47	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	8.75		*	mg/Kg	0.05	0.3	11/11/08 22:55	rac
Manganese, total (3050)	M6010B ICP	237			mg/Kg	0.5	3	11/11/08 23:47	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:36	pmc
Molybdenum, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	11/11/08 23:47	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	11/11/08 23:47	aeh
Selenium, total (3050)	M6020 ICP-MS	1.87			mg/Kg	0.05	0.3	11/11/08 22:55	rac
Thallium, total (3050)	M6020 ICP-MS	0.16	B	*	mg/Kg	0.05	0.3	11/11/08 22:55	rac
Uranium, total (3050)	M6020 ICP-MS	18.40		*	mg/Kg	0.05	0.3	11/11/08 22:55	rac
Zinc, total (3050)	M6010B ICP	51		*	mg/Kg	1	5	11/11/08 23:47	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.9		*	%	0.1	0.5	11/06/08 14:31	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:16	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 10:10	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 19:16	bjl

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*Er 2/10/09*

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9

Sample ID: ST-SB06 80-100

ACZ Sample ID: L72871-05

Date Sampled: 10/23/08 09:52

Date Received: 11/05/08

Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/11/08 23:00	rac
Arsenic, total (3050)	M6020 ICP-MS	2.9		*	mg/Kg	0.3	1	11/11/08 23:00	rac
Barium, total (3050)	M6010B ICP	64.3		*	mg/Kg	0.3	2	11/11/08 23:51	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	11/11/08 23:51	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:51	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	11/11/08 23:51	aeh
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	11/11/08 23:51	aeh
Copper, total (3050)	M6010B ICP	844		*	mg/Kg	1	5	11/11/08 23:51	aeh
Lead, total (3050)	M6020 ICP-MS NG	11.00		*	mg/Kg	0.05	0.3	11/11/08 23:00	rac
Manganese, total (3050)	M6010B ICP	341			mg/Kg	0.5	3	11/11/08 23:51	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:38	pmc
Molybdenum, total (3050)	M6010B ICP	102		*	mg/Kg	1	5	11/11/08 23:51	aeh
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	11/11/08 23:51	aeh
Selenium, total (3050)	M6020 ICP-MS	1.40			mg/Kg	0.05	0.3	11/11/08 23:00	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	11/11/08 23:00	rac
Uranium, total (3050)	M6020 ICP-MS	3.86		*	mg/Kg	0.05	0.3	11/11/08 23:00	rac
Zinc, total (3050)	M6010B ICP	92		*	mg/Kg	1	5	11/11/08 23:51	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	93.6		*	%	0.1	0.5	11/06/08 15:37	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:22	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 10:28	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 21:22	bjl

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EE 2/10/09

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB06 100-120

ACZ Sample ID: **L72871-06**  
 Date Sampled: 10/23/08 10:32  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.6	B	*	mg/Kg	0.2	1	11/11/08 23:06	rac
Arsenic, total (3050)	M6020 ICP-MS	2.8		*	mg/Kg	0.3	1	11/11/08 23:06	rac
Barium, total (3050)	M6010B ICP	70.5		*	mg/Kg	0.3	2	11/11/08 23:55	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/11/08 23:55	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:55	aeh
Chromium, total (3050)	M6010B ICP	6			mg/Kg	1	5	11/11/08 23:55	aeh
Cobalt, total (3050)	M6010B ICP	7		*	mg/Kg	1	5	11/11/08 23:55	aeh
Copper, total (3050)	M6010B ICP	509		*	mg/Kg	1	5	11/11/08 23:55	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	6.22		*	mg/Kg	0.05	0.3	11/11/08 23:06	rac
Manganese, total (3050)	M6010B ICP	327			mg/Kg	0.5	3	11/11/08 23:55	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:45	pmc
Molybdenum, total (3050)	M6010B ICP	59		*	mg/Kg	1	5	11/11/08 23:55	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	11/11/08 23:55	aeh
Selenium, total (3050)	M6020 ICP-MS	1.22			mg/Kg	0.05	0.3	11/11/08 23:06	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	11/11/08 23:06	rac
Uranium, total (3050)	M6020 ICP-MS	5.13		*	mg/Kg	0.05	0.3	11/11/08 23:06	rac
Zinc, total (3050)	M6010B ICP	53		*	mg/Kg	1	5	11/11/08 23:55	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.1		*	%	0.1	0.5	11/06/08 16:44	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:28	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 10:46	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/07/08 23:28	bjl

Arizona license number: AZ0102

EQ 2/10/09

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 120-140

ACZ Sample ID: L72871-07  
 Date Sampled: 10/23/08 11:07  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/11/08 23:12	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	1	11/11/08 23:12	rac
Barium, total (3050)	M6010B ICP	98.2		*	mg/Kg	0.3	2	11/11/08 23:58	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/11/08 23:58	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/11/08 23:58	aeh
Chromium, total (3050)	M6010B ICP	7			mg/Kg	1	5	11/11/08 23:58	aeh
Cobalt, total (3050)	M6010B ICP	10		*	mg/Kg	1	5	11/11/08 23:58	aeh
Copper, total (3050)	M6010B ICP	447		*	mg/Kg	1	5	11/11/08 23:58	aeh
Lead, total (3050)	M6020 ICP-MS <b>N6</b>	4.55		*	mg/Kg	0.05	0.3	11/11/08 23:12	rac
Manganese, total (3050)	M6010B ICP	433			mg/Kg	0.5	3	11/11/08 23:58	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:47	pmc
Molybdenum, total (3050)	M6010B ICP	46		*	mg/Kg	1	5	11/11/08 23:58	aeh
Nickel, total (3050)	M6010B ICP	4	B		mg/Kg	1	5	11/11/08 23:58	aeh
Selenium, total (3050)	M6020 ICP-MS	0.98			mg/Kg	0.05	0.3	11/11/08 23:12	rac
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	11/11/08 23:12	rac
Uranium, total (3050)	M6020 ICP-MS	4.10		*	mg/Kg	0.05	0.3	11/11/08 23:12	rac
Zinc, total (3050)	M6010B ICP	55		*	mg/Kg	1	5	11/11/08 23:58	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	85.2		*	%	0.1	0.5	11/06/08 17:50	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:33	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 11:04	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 1:33	bjl

Arizona license number: AZ0102

EVE 2/10/09

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: ST-SB06 140-160

ACZ Sample ID: L72871-08  
Date Sampled: 10/23/08 13:37  
Date Received: 11/05/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/11/08 23:17	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	1	11/11/08 23:17	rac
Barium, total (3050)	M6010B ICP	95.4		*	mg/Kg	0.3	2	11/12/08 0:02	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/12/08 0:02	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:02	aeh
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	11/12/08 0:02	aeh
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	11/12/08 0:02	aeh
Copper, total (3050)	M6010B ICP	530		*	mg/Kg	1	5	11/12/08 0:02	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	12.60		*	mg/Kg	0.05	0.3	11/11/08 23:17	rac
Manganese, total (3050)	M6010B ICP	297			mg/Kg	0.5	3	11/12/08 0:02	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:49	pmc
Molybdenum, total (3050)	M6010B ICP	43		*	mg/Kg	1	5	11/12/08 0:02	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	11/12/08 0:02	aeh
Selenium, total (3050)	M6020 ICP-MS	1.44			mg/Kg	0.05	0.3	11/11/08 23:17	rac
Thallium, total (3050)	M6020 ICP-MS	0.22	B	*	mg/Kg	0.05	0.3	11/11/08 23:17	rac
Uranium, total (3050)	M6020 ICP-MS	2.58		*	mg/Kg	0.05	0.3	11/11/08 23:17	rac
Zinc, total (3050)	M6010B ICP	50		*	mg/Kg	1	5	11/12/08 0:02	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.1		*	%	0.1	0.5	11/06/08 18:56	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:39	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 11:22	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 3:39	bjl

Arizona license number: AZ0102

EW 2/10/09

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 160-180

ACZ Sample ID: L72871-09  
 Date Sampled: 10/23/08 14:52  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/11/08 23:23	rac
Arsenic, total (3050)	M6020 ICP-MS	1.6		*	mg/Kg	0.3	1	11/11/08 23:23	rac
Barium, total (3050)	M6010B ICP	104		*	mg/Kg	0.3	2	11/12/08 0:06	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/12/08 0:06	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:06	aeh
Chromium, total (3050)	M6010B ICP	14			mg/Kg	1	5	11/12/08 0:06	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	11/12/08 0:06	aeh
Copper, total (3050)	M6010B ICP	579		*	mg/Kg	1	5	11/12/08 0:06	aeh
Lead, total (3050)	M6020 ICP-MS N6	4.24		*	mg/Kg	0.05	0.3	11/11/08 23:23	rac
Manganese, total (3050)	M6010B ICP	315			mg/Kg	0.5	3	11/12/08 0:06	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:51	pmc
Molybdenum, total (3050)	M6010B ICP	124		*	mg/Kg	1	5	11/12/08 0:06	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	11/12/08 0:06	aeh
Selenium, total (3050)	M6020 ICP-MS	1.32			mg/Kg	0.05	0.3	11/11/08 23:23	rac
Thallium, total (3050)	M6020 ICP-MS	0.28	B	*	mg/Kg	0.05	0.3	11/11/08 23:23	rac
Uranium, total (3050)	M6020 ICP-MS	2.99		*	mg/Kg	0.05	0.3	11/11/08 23:23	rac
Zinc, total (3050)	M6010B ICP	70		*	mg/Kg	1	5	11/12/08 0:06	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	87.4		*	%	0.1	0.5	11/06/08 20:03	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:45	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 11:40	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 5:45	bjl

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E2 2/10/09

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB06 180-200

ACZ Sample ID: **L72871-10**  
 Date Sampled: 10/24/08 09:27  
 Date Received: 11/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	11/11/08 23:29	rac
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	1	11/11/08 23:29	rac
Barium, total (3050)	M6010B ICP	97.5		*	mg/Kg	0.3	2	11/12/08 0:09	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/12/08 0:09	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:09	aeh
Chromium, total (3050)	M6010B ICP	10			mg/Kg	1	5	11/12/08 0:09	aeh
Cobalt, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	11/12/08 0:09	aeh
Copper, total (3050)	M6010B ICP	561		*	mg/Kg	1	5	11/12/08 0:09	aeh
Lead, total (3050)	M6020 ICP-MS <b>N6</b>	7.79		*	mg/Kg	0.05	0.3	11/11/08 23:29	rac
Manganese, total (3050)	M6010B ICP	291			mg/Kg	0.5	3	11/12/08 0:09	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 11:54	pmc
Molybdenum, total (3050)	M6010B ICP	60		*	mg/Kg	1	5	11/12/08 0:09	aeh
Nickel, total (3050)	M6010B ICP	8			mg/Kg	1	5	11/12/08 0:09	aeh
Selenium, total (3050)	M6020 ICP-MS	1.27			mg/Kg	0.05	0.3	11/11/08 23:29	rac
Thallium, total (3050)	M6020 ICP-MS	0.21	B	*	mg/Kg	0.05	0.3	11/11/08 23:29	rac
Uranium, total (3050)	M6020 ICP-MS	3.01		*	mg/Kg	0.05	0.3	11/11/08 23:29	rac
Zinc, total (3050)	M6010B ICP	76		*	mg/Kg	1	5	11/12/08 0:09	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.0		*	%	0.1	0.5	11/06/08 21:09	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:50	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 11:58	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 7:50	bjl

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*Handwritten:* bj 11/10/08

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: ST-SB06 200-220

ACZ Sample ID: L72871-11  
Date Sampled: 10/24/08 11:47  
Date Received: 11/05/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/11/08 23:34	rac
Arsenic, total (3050)	M6020 ICP-MS	1.7		*	mg/Kg	0.3	1	11/11/08 23:34	rac
Barium, total (3050)	M6010B ICP	107		*	mg/Kg	0.3	2	11/12/08 0:13	aeh
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/12/08 0:13	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:13	aeh
Chromium, total (3050)	M6010B ICP	12			mg/Kg	1	5	11/12/08 0:13	aeh
Cobalt, total (3050)	M6010B ICP	13		*	mg/Kg	1	5	11/12/08 0:13	aeh
Copper, total (3050)	M6010B ICP	642		*	mg/Kg	1	5	11/12/08 0:13	aeh
Lead, total (3050)	M6020 ICP-MS <b>N6</b>	36.90		*	mg/Kg	0.05	0.3	11/11/08 23:34	rac
Manganese, total (3050)	M6010B ICP	301			mg/Kg	0.5	3	11/12/08 0:13	aeh
Mercury, total	M7471A CVAAs		U		mg/Kg	0.04	0.2	11/18/08 11:56	pmc
Molybdenum, total (3050)	M6010B ICP	129		*	mg/Kg	1	5	11/12/08 0:13	aeh
Nickel, total (3050)	M6010B ICP	9			mg/Kg	1	5	11/12/08 0:13	aeh
Selenium, total (3050)	M6020 ICP-MS	1.47			mg/Kg	0.05	0.3	11/11/08 23:34	rac
Thallium, total (3050)	M6020 ICP-MS	0.23	B	*	mg/Kg	0.05	0.3	11/11/08 23:34	rac
Uranium, total (3050)	M6020 ICP-MS	2.50		*	mg/Kg	0.05	0.3	11/11/08 23:34	rac
Zinc, total (3050)	M6010B ICP	82		*	mg/Kg	1	5	11/12/08 0:13	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.3		*	%	0.1	0.5	11/06/08 22:15	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 7:56	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 12:17	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 9:56	bjl

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EE 2/10/09

# ACZ Laboratories, Inc.

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: ST-SB06 220-240

ACZ Sample ID: L72871-12  
Date Sampled: 10/24/08 14:52  
Date Received: 11/05/08  
Sample Matrix: Soil

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.2	B	*	mg/Kg	0.2	1	11/11/08 23:40	rac
Arsenic, total (3050)	M6020 ICP-MS	2.1		*	mg/Kg	0.3	1	11/11/08 23:40	rac
Barium, total (3050)	M6010B ICP	127		*	mg/Kg	0.3	2	11/12/08 0:24	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/12/08 0:24	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:24	aeh
Chromium, total (3050)	M6010B ICP	24			mg/Kg	1	5	11/12/08 0:24	aeh
Cobalt, total (3050)	M6010B ICP	15		*	mg/Kg	1	5	11/12/08 0:24	aeh
Copper, total (3050)	M6010B ICP	318		*	mg/Kg	1	5	11/12/08 0:24	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	4.17		*	mg/Kg	0.05	0.3	11/11/08 23:40	rac
Manganese, total (3050)	M6010B ICP	369			mg/Kg	0.5	3	11/12/08 0:24	aeh
Mercury, total	M7471A CVAAs		U		mg/Kg	0.04	0.2	11/18/08 11:58	pmc
Molybdenum, total (3050)	M6010B ICP	38		*	mg/Kg	1	5	11/12/08 0:24	aeh
Nickel, total (3050)	M6010B ICP	16			mg/Kg	1	5	11/12/08 0:24	aeh
Selenium, total (3050)	M6020 ICP-MS	1.18			mg/Kg	0.05	0.3	11/11/08 23:40	rac
Thallium, total (3050)	M6020 ICP-MS	0.34		*	mg/Kg	0.05	0.3	11/11/08 23:40	rac
Uranium, total (3050)	M6020 ICP-MS	4.53		*	mg/Kg	0.05	0.3	11/11/08 23:40	rac
Zinc, total (3050)	M6010B ICP	76		*	mg/Kg	1	5	11/12/08 0:24	aeh

#### Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	91.0		*	%	0.1	0.5	11/06/08 23:22	bjl

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:01	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 12:35	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 12:01	bjl

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22  
10/11/08

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 240-260

ACZ Sample ID: **L72871-13**  
 Date Sampled: 10/25/08 10:12  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/11/08 23:46	rac
Arsenic, total (3050)	M6020 ICP-MS	1.9		*	mg/Kg	0.3	1	11/11/08 23:46	rac
Barium, total (3050)	M6010B ICP	137		*	mg/Kg	0.3	2	11/12/08 0:27	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/12/08 0:27	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:27	aeh
Chromium, total (3050)	M6010B ICP	34			mg/Kg	1	5	11/12/08 0:27	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	11/12/08 0:27	aeh
Copper, total (3050)	M6010B ICP	230		*	mg/Kg	1	5	11/12/08 0:27	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	4.30			mg/Kg	0.05	0.3	11/19/08 13:30	rac
Manganese, total (3050)	M6010B ICP	412			mg/Kg	0.5	3	11/12/08 0:27	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:00	pmc
Molybdenum, total (3050)	M6010B ICP	32		*	mg/Kg	1	5	11/12/08 0:27	aeh
Nickel, total (3050)	M6010B ICP	22			mg/Kg	1	5	11/12/08 0:27	aeh
Selenium, total (3050)	M6020 ICP-MS	1.01			mg/Kg	0.05	0.3	11/11/08 23:46	rac
Thallium, total (3050)	M6020 ICP-MS	0.44		*	mg/Kg	0.05	0.3	11/11/08 23:46	rac
Uranium, total (3050)	M6020 ICP-MS	2.72		*	mg/Kg	0.05	0.3	11/11/08 23:46	rac
Zinc, total (3050)	M6010B ICP	73		*	mg/Kg	1	5	11/12/08 0:27	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	88.8		*	%	0.1	0.5	11/07/08 0:28	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:07	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 12:53	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 14:07	bjl

Arizona license number: AZ0102

11/10/08 23

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 260-280

ACZ Sample ID: **L72871-14**  
 Date Sampled: 10/26/08 09:07  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/12/08 0:03	rac
Arsenic, total (3050)	M6020 ICP-MS	1.7		*	mg/Kg	0.3	1	11/12/08 0:03	rac
Barium, total (3050)	M6010B ICP	126		*	mg/Kg	0.3	2	11/12/08 0:31	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/12/08 0:31	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:31	aeh
Chromium, total (3050)	M6010B ICP	33			mg/Kg	1	5	11/12/08 0:31	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	11/12/08 0:31	aeh
Copper, total (3050)	M6010B ICP	392		*	mg/Kg	1	5	11/12/08 0:31	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	6.83		*	mg/Kg	0.05	0.3	11/12/08 0:03	rac
Manganese, total (3050)	M6010B ICP	386			mg/Kg	0.5	3	11/12/08 0:31	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:03	pmc
Molybdenum, total (3050)	M6010B ICP	42		*	mg/Kg	1	5	11/12/08 0:31	aeh
Nickel, total (3050)	M6010B ICP	21			mg/Kg	1	5	11/12/08 0:31	aeh
Selenium, total (3050)	M6020 ICP-MS	1.13			mg/Kg	0.05	0.3	11/12/08 0:03	rac
Thallium, total (3050)	M6020 ICP-MS	0.42		*	mg/Kg	0.05	0.3	11/12/08 0:03	rac
Uranium, total (3050)	M6020 ICP-MS	2.94		*	mg/Kg	0.05	0.3	11/12/08 0:03	rac
Zinc, total (3050)	M6010B ICP	73		*	mg/Kg	1	5	11/12/08 0:31	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.2		*	%	0.1	0.5	11/07/08 1:34	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:13	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 13:11	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 16:13	bjl

Arizona license number: AZ0102

*Er 2/10/09*

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB06 280-300

ACZ Sample ID: **L72871-15**  
 Date Sampled: 10/28/08 09:47  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS		U	*	mg/Kg	0.2	1	11/12/08 0:09	rac
Arsenic, total (3050)	M6020 ICP-MS	1.5		*	mg/Kg	0.3	1	11/12/08 0:09	rac
Barium, total (3050)	M6010B ICP	171		*	mg/Kg	0.3	2	11/12/08 0:35	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	11/12/08 0:35	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:35	aeh
Chromium, total (3050)	M6010B ICP	49			mg/Kg	1	5	11/12/08 0:35	aeh
Cobalt, total (3050)	M6010B ICP	17		*	mg/Kg	1	5	11/12/08 0:35	aeh
Copper, total (3050)	M6010B ICP	280		*	mg/Kg	1	5	11/12/08 0:35	aeh
Lead, total (3050)	M6020 ICP-MS <b>N6</b>	7.50		*	mg/Kg	0.05	0.3	11/12/08 0:09	rac
Manganese, total (3050)	M6010B ICP	456			mg/Kg	0.5	3	11/12/08 0:35	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:06	pmc
Molybdenum, total (3050)	M6010B ICP	42		*	mg/Kg	1	5	11/12/08 0:35	aeh
Nickel, total (3050)	M6010B ICP	31			mg/Kg	1	5	11/12/08 0:35	aeh
Selenium, total (3050)	M6020 ICP-MS	1.30			mg/Kg	0.05	0.3	11/12/08 0:09	rac
Thallium, total (3050)	M6020 ICP-MS	0.63		*	mg/Kg	0.05	0.3	11/12/08 0:09	rac
Uranium, total (3050)	M6020 ICP-MS	2.42		*	mg/Kg	0.05	0.3	11/12/08 0:09	rac
Zinc, total (3050)	M6010B ICP	91		*	mg/Kg	1	5	11/12/08 0:35	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	89.7		*	%	0.1	0.5	11/07/08 2:41	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:18	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 13:29	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 18:18	bjl

Arizona license number: **AZ0102**

*EE 2/10/09*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 300-320

ACZ Sample ID: L72871-16  
 Date Sampled: 10/28/08 13:52  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS <del>AZ-EN</del>	0.3	B	*	mg/Kg	0.2	1	11/12/08 0:14	rac
Arsenic, total (3050)	M6020 ICP-MS <del>AZ-EN</del>	3.2		*	mg/Kg	0.3	1	11/12/08 0:14	rac
Barium, total (3050)	M6010B ICP	78.5		*	mg/Kg	0.3	2	11/12/08 0:38	aeh
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	11/12/08 0:38	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:38	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	11/12/08 0:38	aeh
Cobalt, total (3050)	M6010B ICP	5		*	mg/Kg	1	5	11/12/08 0:38	aeh
Copper, total (3050)	M6010B ICP	223		*	mg/Kg	1	5	11/12/08 0:38	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	9.16		*	mg/Kg	0.05	0.3	11/12/08 0:14	rac
Manganese, total (3050)	M6010B ICP	212			mg/Kg	0.5	3	11/12/08 0:38	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:13	pmc
Molybdenum, total (3050)	M6010B ICP	12		*	mg/Kg	1	5	11/12/08 0:38	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	11/12/08 0:38	aeh
Selenium, total (3050)	M6020 ICP-MS	0.26	B		mg/Kg	0.05	0.3	11/12/08 0:14	rac
Thallium, total (3050)	M6020 ICP-MS	0.15	B	*	mg/Kg	0.05	0.3	11/12/08 0:14	rac
Uranium, total (3050)	M6020 ICP-MS	1.08		*	mg/Kg	0.05	0.3	11/12/08 0:14	rac
Zinc, total (3050)	M6010B ICP	48		*	mg/Kg	1	5	11/12/08 0:38	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	78.4		*	%	0.1	0.5	11/07/08 3:47	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:24	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 13:47	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 20:24	bjl

Arizona license number: AZ0102

*EE 2/10/09*

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ST-SB06 300-320 D

ACZ Sample ID: **L72871-17**  
 Date Sampled: 10/28/08 13:52  
 Date Received: 11/05/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/12/08 0:20	rac
Arsenic, total (3050)	M6020 ICP-MS	2.9		*	mg/Kg	0.3	1	11/12/08 0:20	rac
Barium, total (3050)	M6010B ICP	52.6		*	mg/Kg	0.3	2	11/12/08 0:42	aeh
Beryllium, total (3050)	M6010B ICP	0.6	B		mg/Kg	0.2	1	11/12/08 0:42	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:42	aeh
Chromium, total (3050)	M6010B ICP	9			mg/Kg	1	5	11/12/08 0:42	aeh
Cobalt, total (3050)	M6010B ICP	6		*	mg/Kg	1	5	11/12/08 0:42	aeh
Copper, total (3050)	M6010B ICP	223		*	mg/Kg	1	5	11/12/08 0:42	aeh
Lead, total (3050)	M6020 ICP-MS <b>NG</b>	9.05		*	mg/Kg	0.05	0.3	11/12/08 0:20	rac
Manganese, total (3050)	M6010B ICP	227			mg/Kg	0.5	3	11/12/08 0:42	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:15	pmc
Molybdenum, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	11/12/08 0:42	aeh
Nickel, total (3050)	M6010B ICP	6			mg/Kg	1	5	11/12/08 0:42	aeh
Selenium, total (3050)	M6020 ICP-MS	0.22	B		mg/Kg	0.05	0.3	11/12/08 0:20	rac
Thallium, total (3050)	M6020 ICP-MS	0.14	B	*	mg/Kg	0.05	0.3	11/12/08 0:20	rac
Uranium, total (3050)	M6020 ICP-MS	1.04		*	mg/Kg	0.05	0.3	11/12/08 0:20	rac
Zinc, total (3050)	M6010B ICP	41		*	mg/Kg	1	5	11/12/08 0:42	aeh

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	90.3		*	%	0.1	0.5	11/07/08 4:53	bjl

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:30	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 14:05	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/08/08 22:30	bjl

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*EE 2/10/09*

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB06 260-280 MSD

ACZ Sample ID: **L72871-18**  
 Date Sampled: 10/26/08 09:07  
 Date Received: 11/05/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS <i>M2</i>	0.2	B	*	mg/Kg	0.2	1	11/12/08 0:26	rac
Arsenic, total (3050)	M6020 ICP-MS <i>M2</i>	2.0		*	mg/Kg	0.3	1	11/12/08 0:26	rac
Barium, total (3050)	M6010B ICP	117		*	mg/Kg	0.3	2	11/12/08 0:45	aeh
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/12/08 0:45	aeh
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/12/08 0:45	aeh
Chromium, total (3050)	M6010B ICP	30			mg/Kg	1	5	11/12/08 0:45	aeh
Cobalt, total (3050)	M6010B ICP	14		*	mg/Kg	1	5	11/12/08 0:45	aeh
Copper, total (3050)	M6010B ICP	372		*	mg/Kg	1	5	11/12/08 0:45	aeh
Lead, total (3050)	M6020 ICP-MS <i>NG</i>	6.12		*	mg/Kg	0.05	0.3	11/12/08 0:26	rac
Manganese, total (3050)	M6010B ICP	374			mg/Kg	0.5	3	11/12/08 0:45	aeh
Mercury, total	M7471A CVAA		U		mg/Kg	0.04	0.2	11/18/08 12:17	pmc
Molybdenum, total (3050)	M6010B ICP	66		*	mg/Kg	1	5	11/12/08 0:45	aeh
Nickel, total (3050)	M6010B ICP	20			mg/Kg	1	5	11/12/08 0:45	aeh
Selenium, total (3050)	M6020 ICP-MS	1.26			mg/Kg	0.05	0.3	11/12/08 0:26	rac
Thallium, total (3050)	M6020 ICP-MS	0.39		*	mg/Kg	0.05	0.3	11/12/08 0:26	rac
Uranium, total (3050)	M6020 ICP-MS	2.52		*	mg/Kg	0.05	0.3	11/12/08 0:26	rac
Zinc, total (3050)	M6010B ICP	68		*	mg/Kg	1	5	11/12/08 0:45	aeh

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.6		*	%	0.1	0.5	11/07/08 6:00	bjl

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/06/08 8:35	bjl
Digestion - Hot Plate	M3050B ICP-MS							11/10/08 14:23	mjc
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/09/08 0:35	bjl

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*EE 2/10/09*

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L73011

Sampling Event: August 1<sup>st</sup>, 4<sup>th</sup>, & 12<sup>th</sup>, 2008Sample-specific Parameter Review? **Yes**Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 02/10/09

Peer Reviewer: Geoff Webb

Date Completed: 02/10/09

This report summarizes the verification of analytical data for 4 soil samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses	
				Total Metals <sup>1</sup>	Hexavalent Chromium
EM-JS-02-1-3	SA	L73011-01	S	X	---
CS-JS-01-0-1	SA	L73011-02	S	---	X <sup>m</sup>
CS-JS-02-10-11	SA	L73011-03	S	X <sup>m</sup>	---
EM-JS-08-5-7	SA	L73011-04	S	---	X

Matrix: S = Soil

QC Type: SA = Sample

X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.<sup>1</sup> Total metals analysis included total lead only.

Note: This report comprises the additional analyses of the samples discussed and evaluated in L70948.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 3.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	Yes	All samples were analyzed within holding time requirements. Data qualification was not required.
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>MS/MSD CS-JS-01-0-1 (Hexavalent Chromium)</li> <li>CS-JS-02-10-11 (Total Lead)</li> <li>LD EM-JS-02-1-3 (Total Lead)</li> </ul>	Yes	<p>The recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>Serial Dilution</li> </ul> N/A	N/A	
<ul style="list-style-type: none"> <li>Internal Standards</li> </ul>	Yes	<p><b>Internal Standards</b></p> <p>All internal standards were within the laboratory-determined acceptance limits. Data qualification was not required.</p>
Field QC <ul style="list-style-type: none"> <li>Rinsate Blank N/A</li> <li>Field Duplicate N/A</li> <li>Field Blank N/A</li> </ul>	N/A	A field duplicate sample was not collected with this sampling event.
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	
Other Parameters	Yes	

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: EM-JS-02-1-3

ACZ Sample ID: **L73011-01**  
Date Sampled: 08/01/08 09:17  
Date Received: 11/12/08  
Sample Matrix: Soil

#### Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M3010A ICP							11/19/08 18:56	jws

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6010B ICP		U	*	mg/L	0.04	0.2	11/25/08 13:39	aeH

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							11/14/08 15:24	brd

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L70948-04.

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## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CS-JS-01-0-1

ACZ Sample ID: **L73011-02**  
Date Sampled: 08/04/08 11:38  
Date Received: 11/12/08  
Sample Matrix: Soil

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A			*				11/19/08 17:15	brd/lwt

#### Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		U	*	mg/Kg	1	4	11/25/08 12:30	jif

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L70949-06.

Arizona license number: AZ0102

ER 2/10/09

# ACZ Laboratories, Inc.

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

## Inorganic Analytical Results

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: CS-JS-02-10-11

ACZ Sample ID: L73011-03  
Date Sampled: 08/04/08 14:33  
Date Received: 11/12/08  
Sample Matrix: Soil

#### Inorganic Prep

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Total Hot Plate Digestion	M3010A ICP							11/19/08 21:38	jws

#### Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Lead (1312)	M6010B ICP		U	*	mg/L	0.04	0.2	11/25/08 13:46	aeh

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Synthetic Precip. Leaching Procedure	M1312							11/15/08 2:12	brd

Note: This report is for additional analysis of the sample previously reported as ACZ project L70949-13.

Arizona license number: AZ0102

EE 2/10/09

### FMI Gold & Copper - Sierrita

Project ID: OJ07R9  
Sample ID: EM-JS-08-5-7

ACZ Sample ID: L73011-04  
Date Sampled: 08/12/08 13:33  
Date Received: 11/12/08  
Sample Matrix: Soil

#### Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Digestion - Alkaline	M3060A			*				11/20/08 10:49	brd/lwt

#### Wet Chemistry

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Chromium, Hexavalent (3060)	M7196A		U	*	mg/Kg	2	9	11/25/08 12:46	jlf

**Note:** This report is for additional analysis of the sample previously reported as ACZ project L71134-16.

Arizona license number: AZ0102

EV 2/10/09

## SIERRITA DATA REVIEW SUMMARY

Data Package Number: L73087

Sampling Event: September 18<sup>th</sup>, October 3<sup>rd</sup>, & October 6<sup>th</sup>, 2008

Sample-specific Parameter Review? **Yes**      Laboratory Performance Parameters? **No**

Data Reviewer: Liz Kraak

Date Completed: 02/10/09

Peer Reviewer: Geoff Webb

Date Completed: 02/10/09

This report summarizes the verification of analytical data for 3 soil field duplicate samples. The soil samples were analyzed for total metals by methods M6020, M6010B, and M7471A. ACZ Laboratories, Inc. of Steamboat Springs, Colorado performed the analyses. ACZ operates under laboratory licensure number AZ0102.

The data review was conducted in accordance with the criteria specified in the Draft Addendum – Quality Assurance Project Plan Sierrita Mine Green Valley, Arizona (April 2008). Independent review flags were assigned as required by Appendix E in the QAPP. The table below summarizes the samples and analyses presented in these data packages.

Field ID	Sample Type	Lab ID	Matrix	Analyses
				Total Metals
ST-SB03 160-180 DUP	FD	L73087-01	S	X <sup>m</sup>
ST-SB04 100-120 DUP	FD	L73087-02	S	X
ET-SB02 60-80 DUP	FD	L73087-03	S	X

Matrix:    S = Soil                      QC Type:    SA = Sample  
 X<sup>m</sup> – Matrix spike and/or matrix spike duplicate recovery.

### General Overall Assessment (Flags applied per ADEQ data qualifying process and QAPP guidance):

- Data are usable without qualification.
- Data are usable with qualification (noted below).
- Some or all data are unusable for any purpose (detailed below).

**Case Narrative Summary:** Except as noted below, any of the issues noted in the laboratory case narrative potentially affecting data quality are addressed in the appropriate sections in the table below. Results reported between the MDL and RL were flagged with a B by the laboratory. No additional qualifiers were added during data review for those results reported between the MDL and RL.

Review Parameter	Criteria Met?	Comments
<i>Sample-specific Parameters</i>	Complete with "Yes", "No", or "Not Applicable (N/A)".	For each "No" response, list what was out, associated acceptance limits, all qualified data, and bias direction or reference associated table with pertinent details.
COC & Sample Receipt	Yes	<p>Samples were received intact and the cooler temperature was 2.5°C upon arrival at the laboratory, which met the criterion of <math>\leq 6^{\circ}\text{C}</math>. Qualification of data was not necessary.</p> <p>The percent solid is performed on the soil samples as received and this percent solid is reported on the result form. For the metals analysis, the soil samples are dried prior to sample preparation. Another percent solid is performed on the air dried sample to use as a correction factor for the sample result after analysis. This correction factor is also applied to the MDL and RL, but because the percent solid is performed on the air dried sample this correction factor is small. Therefore, the MDL and RLs are the same from sample to sample. The sample and results are reported on a dry weight basis. Samples were not air dried for the mercury analysis. The mercury samples were prepared as received and dry weight corrected.</p>
Holding Times	No	With the exception of total mercury, all samples were analyzed within holding time requirements. The total mercury results for all samples were analyzed past the 28 day holding time limit. Therefore, all total mercury results for all samples were qualified as estimated (H1).
Method Blanks Calibration Blanks	Yes	Target analytes were not detected in the method blanks or continuing calibration blanks. Data qualification was not required.
Matrix QC <ul style="list-style-type: none"> <li>• MS/MSD ST-SB03 160-180 DUP (Total Barium, Total Beryllium, Total Cadmium, Total Chromium, Total Cobalt, Total Copper, Total Manganese, Total Molybdenum, Total Nickel, Total Zinc)</li> <li>• LD ET-SB02 60-80 DUP (Percent Solids)</li> </ul>	No	<p>With the exceptions noted in Table 1 below, the recoveries and RPDs for the matrix spike (MS) and matrix spike duplicate (MSD) analyses were within the laboratory-determined acceptance range.</p> <p>Results in the native sample greater than four times the concentration of the spike added during digestions are not considered to be a representative measure of accuracy. Further action or qualification of data was not considered necessary.</p> <p>The agreement between parent sample results and the lab duplicate sample results was evaluated for percent solids. All of the results met the evaluation criteria.</p>
Method QC <ul style="list-style-type: none"> <li>• Serial Dilution N/A</li> <li>• Internal Standards</li> </ul>	N/A	
Field QC <ul style="list-style-type: none"> <li>• Rinsate Blank N/A</li> <li>• Field Duplicate ST-SB03 160-180 DUP ST-SB04 100-120 DUP ET-SB02 60-80 DUP</li> <li>• Field Blank N/A</li> </ul>	Yes	<p>The field duplicate samples, ST-SB03 160-180 DUP, ST-SB04 100-120 DUP, and ET-SB02 60-80 DUP, are associated with samples collected in data packages L72397, L72397, and L72198, respectively.</p> <p>All field duplicate pairs met the applicable evaluation criteria. Data qualification was not required.</p>
Laboratory Control Sample/ Laboratory Control Sample Duplicate (LCS/LCSD)	Yes	All LCS and LCSD percent recoveries and RPDs were within laboratory-determined acceptance limits. Data qualification was not required.
Elevated RLs without associated non-detect results	Yes	
Package Completeness	Yes	

Review Parameter	Criteria Met?	Comments
Other Parameters	Yes	

**Table 1: MS/MSD Recovery Outliers and Resultant Qualification**

Sample	Analyte	%Rs (Limits)	RPD (Limit)	Qualification
ST-SB03 160-180 DUP	Total Molybdenum	<b>43.6/ -6.5</b> (75-125)	<b>25.47</b> (20)	As the potential bias was considered to be low, the total molybdenum result for the associated parent sample was flagged with a M2. As the total molybdenum RPD was not within acceptance limits, the total molybdenum result was also flagged with an R8.
	Total Zinc	<b>73.5/ 50.1</b> (75-125)	11.22 (20)	As the potential bias was considered to be low, the total zinc result for the associated parent sample was flagged with a M2.

%R = Percent Recovery

M2 = Matrix spike recovery was low; the associated blank spike recovery was acceptable.

R8 = Sample RPD exceeded the method acceptance criteria.

RPD = Relative Percent Difference

**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB03 160-180 DUP  
 L72397-17

ACZ Sample ID: L73087-01  
 Date Sampled: 10/03/08 11:47  
 Date Received: 11/17/08  
 Sample Matrix: Soil

Metals Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.3	B	*	mg/Kg	0.2	1	11/26/08 19:48	erf
Arsenic, total (3050)	M6020 ICP-MS	2.2		*	mg/Kg	0.3	1	11/26/08 19:48	erf
Barium, total (3050)	M6010B ICP	128		*	mg/Kg	0.3	2	11/26/08 23:02	ear
Beryllium, total (3050)	M6010B ICP	0.4	B		mg/Kg	0.2	1	11/26/08 23:02	ear
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/26/08 23:02	ear
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	11/26/08 23:02	ear
Cobalt, total (3050)	M6010B ICP	11		*	mg/Kg	1	5	11/26/08 23:02	ear
Copper, total (3050)	M6010B ICP	457		*	mg/Kg	1	5	11/26/08 23:02	ear
Lead, total (3050)	M6020 ICP-MS	11.80		*	mg/Kg	0.05	0.3	11/26/08 19:48	erf
Manganese, total (3050)	M6010B ICP	332		*	mg/Kg	0.5	3	11/26/08 23:02	ear
Mercury, total	M7471A CVAAs HI		UH	*	mg/Kg	0.04	0.2	11/21/08 9:35	pmc
Molybdenum, total (3050)	M6010B ICP MZ, R8	90		*	mg/Kg	1	5	11/26/08 23:02	ear
Nickel, total (3050)	M6010B ICP	7			mg/Kg	1	5	11/26/08 23:02	ear
Selenium, total (3050)	M6020 ICP-MS	1.06			mg/Kg	0.05	0.3	11/26/08 19:48	erf
Thallium, total (3050)	M6020 ICP-MS	0.32		*	mg/Kg	0.05	0.3	11/26/08 19:48	erf
Uranium, total (3050)	M6020 ICP-MS	4.73		*	mg/Kg	0.05	0.3	11/26/08 19:48	erf
Zinc, total (3050)	M6010B ICP MZ	74		*	mg/Kg	1	5	11/26/08 23:02	ear

Soil Analysis

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	92.8		*	%	0.1	0.5	11/18/08 21:15	brd

Soil Preparation

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/18/08 13:00	brd
Digestion - Hot Plate	M3050B ICP-MS							11/25/08 9:32	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/19/08 7:45	mjc

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**FMI Gold & Copper - Sierrita**

Project ID: OJ07R9  
 Sample ID: ST-SB04 100-120 DUP  
 L72397-07

ACZ Sample ID: L73087-02  
 Date Sampled: 10/06/08 08:37  
 Date Received: 11/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.4	B	*	mg/Kg	0.2	1	11/26/08 19:59	erf
Arsenic, total (3050)	M6020 ICP-MS	4.1		*	mg/Kg	0.3	1	11/26/08 19:59	erf
Barium, total (3050)	M6010B ICP	77.7		*	mg/Kg	0.3	2	11/26/08 23:22	ear
Beryllium, total (3050)	M6010B ICP	0.7	B		mg/Kg	0.2	1	11/26/08 23:22	ear
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/26/08 23:22	ear
Chromium, total (3050)	M6010B ICP	8			mg/Kg	1	5	11/26/08 23:22	ear
Cobalt, total (3050)	M6010B ICP	8		*	mg/Kg	1	5	11/26/08 23:22	ear
Copper, total (3050)	M6010B ICP	482		*	mg/Kg	1	5	11/26/08 23:22	ear
Lead, total (3050)	M6020 ICP-MS	13.20		*	mg/Kg	0.05	0.3	11/26/08 19:59	erf
Manganese, total (3050)	M6010B ICP	438		*	mg/Kg	0.5	3	11/26/08 23:22	ear
Mercury, total	M7471A CVAA HI		UH	*	mg/Kg	0.04	0.2	11/21/08 9:37	pmc
Molybdenum, total (3050)	M6010B ICP	75		*	mg/Kg	1	5	11/26/08 23:22	ear
Nickel, total (3050)	M6010B ICP	3	B		mg/Kg	1	5	11/26/08 23:22	ear
Selenium, total (3050)	M6020 ICP-MS	1.10			mg/Kg	0.05	0.3	11/26/08 19:59	erf
Thallium, total (3050)	M6020 ICP-MS	0.19	B	*	mg/Kg	0.05	0.3	11/26/08 19:59	erf
Uranium, total (3050)	M6020 ICP-MS	6.14		*	mg/Kg	0.05	0.3	11/26/08 19:59	erf
Zinc, total (3050)	M6010B ICP	93		*	mg/Kg	1	5	11/26/08 23:22	ear

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	95.8		*	%	0.1	0.5	11/19/08 5:30	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/18/08 13:20	brd
Digestion - Hot Plate	M3050B ICP-MS							11/25/08 10:34	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/19/08 7:52	mjc

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EZ 2/10/09

**FMI Gold & Copper - Sierrita**  
 Project ID: OJ07R9  
 Sample ID: ET-SB02 60-80 DUP  
 L72198-10

ACZ Sample ID: **L73087-03**  
 Date Sampled: 09/18/08 15:42  
 Date Received: 11/17/08  
 Sample Matrix: Soil

**Metals Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Antimony, total (3050)	M6020 ICP-MS	0.5	B	*	mg/Kg	0.2	1	11/26/08 20:03	erf
Arsenic, total (3050)	M6020 ICP-MS	4.8		*	mg/Kg	0.3	1	11/26/08 20:03	erf
Barium, total (3050)	M6010B ICP	74.7		*	mg/Kg	0.3	2	11/26/08 23:26	ear
Beryllium, total (3050)	M6010B ICP	0.5	B		mg/Kg	0.2	1	11/26/08 23:26	ear
Cadmium, total (3050)	M6010B ICP		U		mg/Kg	0.5	2	11/26/08 23:26	ear
Chromium, total (3050)	M6010B ICP	11			mg/Kg	1	5	11/26/08 23:26	ear
Cobalt, total (3050)	M6010B ICP	4	B	*	mg/Kg	1	5	11/26/08 23:26	ear
Copper, total (3050)	M6010B ICP	392		*	mg/Kg	1	5	11/26/08 23:26	ear
Lead, total (3050)	M6020 ICP-MS	40.30		*	mg/Kg	0.05	0.3	11/26/08 20:03	erf
Manganese, total (3050)	M6010B ICP	304		*	mg/Kg	0.5	3	11/26/08 23:26	ear
Mercury, total	M7471A CVAA HI		UH	*	mg/Kg	0.04	0.2	11/21/08 9:40	pmc
Molybdenum, total (3050)	M6010B ICP	28		*	mg/Kg	1	5	11/26/08 23:26	ear
Nickel, total (3050)	M6010B ICP	29			mg/Kg	1	5	11/26/08 23:26	ear
Selenium, total (3050)	M6020 ICP-MS	0.29	B		mg/Kg	0.05	0.3	11/26/08 20:03	erf
Thallium, total (3050)	M6020 ICP-MS	0.13	B	*	mg/Kg	0.05	0.3	11/26/08 20:03	erf
Uranium, total (3050)	M6020 ICP-MS	1.45		*	mg/Kg	0.05	0.3	11/26/08 20:03	erf
Zinc, total (3050)	M6010B ICP	58		*	mg/Kg	1	5	11/26/08 23:26	ear

**Soil Analysis**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Solids, Percent	CLPSOW390, PART F, D-98	94.7		*	%	0.1	0.5	11/19/08 13:45	brd

**Soil Preparation**

Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Air Dry at 34 Degrees C	USDA No. 1, 1972			*				11/18/08 13:40	brd
Digestion - Hot Plate	M3050B ICP-MS							11/25/08 10:55	lwt
Sieve-2000 um (2.0mm)	ASA No.9, 15-4.2.2			*				11/19/08 8:00	mjc

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EE 2/10/09