FREEPORT-McMoRan

Sierrita Operations
Environment, Land & Water Department
6200 West Duval Mine Road
PO Box 527
Green Valley, Arizona 85622-0527

November 20, 2015

Via Certified Mail # 7014 3490 0001 5007 1730
Return Receipt Requested

Ms. Madeline Keller
Arizona Department of Environmental Quality
Water Quality Compliance Section
1110 West Washington Street
Phoenix, Arizona 85007-2935

Re: Mitigation Order on Consent Docket No. P-50-06 Semi-annual Groundwater Monitoring Report Second Quarter and Third Quarter 2015

Dear Ms. Keller:

In accordance with Section 5.1.2 of the Mitigation Plan[1], Freeport-McMoRan Sierrita Inc. (Sierrita) submits the enclosed *Semi-annual Groundwater Monitoring Report for Samples Collected during the Second Quarter and Third Quarter 2015*, prepared by Clear Creek Associates for Sierrita.

This document provides results of groundwater monitoring conducted during the Second Quarter and Third Quarter 2015, which Sierrita agreed to submit semiannually in accordance with the letter from ADEQ dated April 17, 2009[2].

Please do not hesitate to contact me at (520) 393-2347 if you have any questions regarding this submittal.

Sincerely,

Deborah L. Chismar

Deborah Chismar
Sr. Environmental Specialist
Freeport-McMoRan Sierrita Inc.

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[1] Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

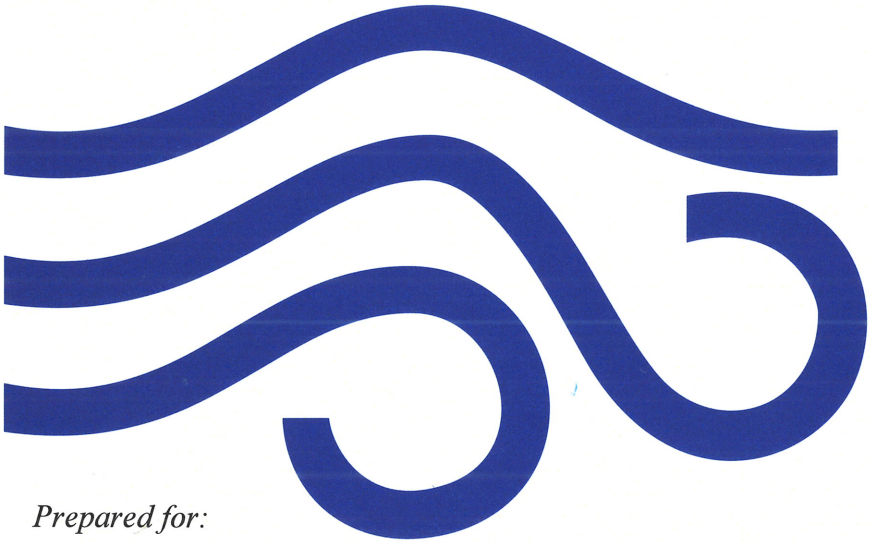
[2] Correspondence from Ned Hall, Sierrita, to Cynthia S. Campbell, ADEQ Water Quality Compliance Section, Re: Mitigation Order on Consent Docket No. P-50-06 – Response to ADEQ Comments on Recommended Groundwater Monitoring for Sulfate – May 15, 2009.

DLC/dlc
Attachment
DTN

xc: Trevor Baggiore, Arizona Department of Environmental Quality
Mindi Cross, Arizona Department of Environmental Quality
Chad Fretz, Sierrita
Lana Fretz, Sierrita
Stuart Brown, Freeport-McMoRan
Jim Norris, Clear Creek Associates

SEMIANNUAL GROUNDWATER MONITORING REPORT FOR SAMPLES COLLECTED DURING THE SECOND AND THIRD QUARTERS 2015

MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06 PIMA COUNTY, ARIZONA



Prepared for:

FREEPORT-MCMORAN SIERRITA INC.
6200 West Duval Mine Road
Green Valley, Arizona 85614

Prepared by:

CLEAR CREEK ASSOCIATES, P.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701
(520) 622-3222

October 23, 2015

SEMIANNUAL GROUNDWATER MONITORING REPORT
FOR SAMPLES COLLECTED DURING THE SECOND AND THIRD QUARTERS 2015

MITIGATION ORDER ON CONSENT DOCKET NO. P-50-06
PIMA COUNTY, ARIZONA

Prepared for:

FREEPORT-MCMORAN SIERRITA INC.
6200 West Duval Mine Road
Green Valley, Arizona 85614

Approved by:

James R. Norris
Arizona Registered Geologist No. 30842

October 23, 2015

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1. INTRODUCTION

This report provides the results of groundwater monitoring conducted in the second and third quarters 2015 in the vicinity of the Freeport-McMoRan Sierrita Inc. (Sierrita) Tailing Impoundment (STI). Groundwater monitoring is conducted by Sierrita to characterize groundwater sulfate concentrations and groundwater elevations in the vicinity of the STI pursuant to the Mitigation Order on Consent Docket No. P-50-06 between Arizona Department of Environmental Quality (ADEQ) and Sierrita. This semiannual groundwater monitoring report was prepared by Clear Creek Associates on behalf of Sierrita.

1.1 Scope of Groundwater Monitoring

Sierrita is conducting a mitigation action consisting of operation of a groundwater pumping and water reuse system to control the migration of a groundwater plume of sulfate and to prevent sulfate concentrations in drinking water supplies from exceeding 250 milligrams per liter (mg/L) at the point of use due to the STI. Groundwater monitoring for the mitigation action is conducted to track plume migration and monitor for sulfate in drinking water supplies. The mitigation action is described in the Mitigation Plan submitted to ADEQ in 2013 (Clear Creek Associates, 2013).

Groundwater pumping under the Mitigation Plan commenced in January 2014. The Mitigation Plan contains a "Post-Implementation Groundwater Monitoring Plan" for monitoring after startup of the mitigation wellfield. The Post-Implementation Groundwater Monitoring Plan was implemented in the first quarter 2014 and was used for monitoring in the second and third quarters of 2015. Pursuant to the Mitigation Plan, groundwater monitoring reports will be submitted to ADEQ semiannually for the first five years of wellfield operation. As described in the Mitigation Plan, the groundwater monitoring reports are primarily to transmit monitoring data to ADEQ with little interpretation. Analysis and interpretation of monitoring data will be conducted for mitigation performance review reports (e.g. Clear Creek Associates, 2015).

Table 1 lists the wells identified for annual, quarterly, and semiannual monitoring for the Post-Implementation Groundwater Monitoring Plan. Thirteen wells are added to the Post-Implementation Groundwater Monitoring Plan. Extraction well IW-29 is added for annual water quality and semiannual water level monitoring. Wells CW-11, FICO C-4, FICO E-6, GV-01-PCWW, GV-02-PCWW, M-5, M-11, M-13, ST-6, 1225, 1759, and 2125 are added for semiannual water level measurement. Figure 1 shows the well locations and sampling

frequency. Dissolved sulfate is the only constituent analyzed. The groundwater sampling and analysis methods followed by Sierrita are described in the Quality Assurance Project Plan (QAPP) contained in Appendix E of the Work Plan developed for the Mitigation Order (HydroGeoChem, Inc, 2006). The results of groundwater monitoring for the second and third quarters of 2015 are presented in Section 2.1.

2. GROUNDWATER MONITORING

2.1 Monitoring Results

Analytical results and groundwater elevation data for the second and third quarters of 2015 are tabulated in Tables 2 and 3, respectively. Figures 2 and 3 show the concentrations of dissolved sulfate in the wells sampled in second and third quarters of 2015, respectively. The highest sulfate concentration measured at co-located wells was used for concentration contouring[1]. Sulfate concentrations are reported as received from the laboratory with no modifications to the number of significant figures. Groundwater elevations in the second and third quarters of 2015 are presented on Figures 4 and 5, respectively. Differences in the interpreted water elevation contours between Figures 4 and 5 are primarily due to differences in the number and position of wells monitored in each quarter. These figures show the most recent measurement for wells with multiple water level measurements during the quarter. The highest contemporaneous water level measured at co-located wells was used for groundwater elevation contouring.

Groundwater elevations for the second and third quarters of 2015 were calculated using depth to water measurements taken under non-pumping (static) conditions at most wells. Depth to water was also measured under pumping (dynamic) conditions at Mitigation Plan extraction wells, public drinking water supply wells, and agricultural irrigation wells. Table 3 and Figures 4 and 5 note which water level data are static and which are dynamic. The dynamic water levels are lower than nearby static water levels because drawdown due to pumping lowers the water table in the vicinity of the extraction wells. Areas of depressed water table around pumping wells are depicted on Figures 4 and 5.

[1] The 250 milligram per liter (mg/L) sulfate contour north of the MO-2007-1 wells is drawn based on the calculated maximum distance that the sulfate plume could have migrated from the MO-2007-1 wells since groundwater concentrations at MO-2007-1C exceeded 250 mg/L in the fourth quarter of 2009. The calculated maximum distance from the MO-2007-1 wells is 1,853 feet for second quarter 2015 and 1,875 feet for third quarter 2015. The distance is based on calculation of quarter-by-quarter groundwater velocities using the maximum hydraulic gradient between the MO-2007-1A, 1B, and 1C and TMM-1 from the fourth quarter 2009 to the fourth quarter 2015 and M-9 from the fourth quarter 2014 to the third quarter 2015 after TMM-1 went dry. A hydraulic conductivity of 31 feet per day, and an assumed effective porosity of 25 percent were used for the calculation. The distance is considered a maximum because the groundwater velocity was calculated with the highest measured hydraulic gradient between the MO-2007-1A, -1B, and -1C wells and TMM-1 or M-9 for each quarter and the highest hydraulic conductivity measured at the MO-2007-1 wells.

2.2 Quality Assurance/Quality Control Review

Pursuant to Section 6.4 of the QAPP, a data verification report was prepared for quality assurance and quality control purposes. The data verification report reviews groundwater data collected by Sierrita during the second and third quarters of 2015, and is included as Appendix A. Analytical laboratory reports for samples collected in the second and third quarters of 2015 are provided in portable document format on the compact diskette in Appendix B. As described in the data verification report, all data are of acceptable quality for use in the groundwater monitoring program conducted pursuant to the Mitigation Order.

3. FINDINGS

This semiannual data report provides the results of groundwater monitoring conducted in the vicinity of the STI for the second and third quarters of 2015. Groundwater samples were collected from 77 plume area wells and depth to water measurements were collected from 110 wells during the second quarter of 2015. In the third quarter 2015, groundwater samples were collected from 26 plume area wells and depth to water measurements were collected from 78 plume area wells.

Well sampling was conducted according to the Post-Implementation Groundwater Monitoring Plan except: ESP-1, FFS-1, I-10, IW-4, IW-5A, IW-6A, IW-9, IW-21, and IW-25, which were inoperable; MH-25C, MH-26A, NP-2 and TMM-1, which had water levels below the sounding tube and could not be measured or sampled; and MO-2007-6B which was pumped dry.

The sulfate plume (as defined by the 250 mg/L sulfate concentration contour) extends northeast from the southeastern corner of the tailing impoundment to the east of co-located wells CW-3/MO 2007-5. The plume extends north from wells CW-3/MO-2007-5 to the west of wells NP-2/MO 2007-3 and north to the vicinity of well TMM-1. Comparison of the sulfate concentration data for the second and third quarters 2015 with data collected in previous quarters indicates that there has not been any significant change to the overall plume geometry since 2006, except in the vicinity of the MO-2007-1 wells where northward migration of the plume occurred prior to implementation of the Mitigation Plan. The hydraulic gradient has decreased in the vicinity of the MO-2007-1 wells due to mitigation action pumping. The decrease in the hydraulic gradient has decreased the velocity of the plume in that area.

In 2014, the start of pumping at the FFS, PS, and MC wells caused water elevation depressions to develop in the vicinity of these wells. The water table depressions constitute hydraulic sinks that are interpreted to be due to the constructive interference of overlapping drawdown cones associated with the extraction wells. The hydraulic sinks around the FFS, PS, and MC wells operate in conjunction with the IW wells to capture of the sulfate plume. The mitigation performance review (Clear Creek Associates, 2015) provides an analysis of the plume capture attained by groundwater pumping in 2014 under the Mitigation Plan.

Appendix C presents time series graphs of sulfate concentrations at drinking water supply wells, sentinel wells, and select monitoring wells. Sulfate concentration data indicate that concentrations at drinking water supply wells are less than the mitigation action objective of 250 mg/L and less than the interim action trigger level of 135 mg/L established in the Mitigation Plan

(Clear Creek Associates, 2013). Sulfate concentrations at sentinel wells are less than the 135 mg/L interim action trigger level. Appendix D includes graphs of water level data over time for sentinel wells and water supply wells. The data included in this report will be analyzed and interpreted in the Mitigation Performance Review for 2015 which is scheduled for submittal to ADEQ in April 2016.

4. REFERENCES

Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

Clear Creek Associates. 2015. Mitigation Performance Review for 2014, Mitigation Order on Consent Docket No, P-50-06. April 31, 2015.

Hydro Geo Chem, Inc. (HGC). 2006. Work Plan to Characterize and Mitigate Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Phelps Dodge Sierrita Tailing Impoundment, Pima County, Arizona. August 11, 2006, revised October 31, 2006.

TABLES

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	Annual Sampling (Second Quarter)	Semiannual Sampling (Fourth Quarter)	Quarterly Sampling
CC of GV	501760	Monitor	Sierrita	✓	WLO	
CW-3	627483	DWS	CWC	✓	✓	
CW-6	627485	DWS	CWC	✓	✓	✓
CW-7	502546	Monitor	CWC	WLO	WLO	
CW-8	543600	Monitor	CWC	WLO	WLO	
CW-9	588121	DWS	CWC	✓	✓	✓
CW-10	207982	DWS	CWC	✓	✓	✓
CW-11	608518	DWS	CWC	WLO	WLO	
ESP-1	623102	Monitor	Sierrita	✓	✓	
ESP-2	623103	Monitor	Sierrita	✓	✓	
ESP-3	623104	Monitor	Sierrita	✓	✓	
ESP-4	623105	Monitor	Sierrita	✓	✓	
ESP-5	623106	Monitor	Sierrita	WLO	WLO	
FFS-1	221662	Extraction	Sierrita	✓	WLO	
FFS-2	221663	Extraction	Sierrita	✓	WLO	
FFS-3	221664	Extraction	Sierrita	✓	WLO	
FFS-4	221665	Extraction	Sierrita	✓	WLO	
FFS-5	221666	Extraction	Sierrita	✓	WLO	
FFS-6	221667	Extraction	Sierrita	✓	WLO	
FICO C-4	624010	Ag Extraction	FICO	WLO	WLO	
FICO E-6	624013	Ag Extraction	FICO	WLO	WLO	
GV-01-GVDWID	603428	DWS	GVDWID	✓	✓	✓
GV-01-PCWW	509603	Monitor	Pima County	WLO	WLO	
GV-02-GVDWID	603429	DWS	GVDWID	✓	✓	✓
GV-02-PCWW	509604	Monitor	Pima County	WLO	WLO	
GV-SI-GVDWID	208825	DWS	GVDWID	✓	WLO	
HAVEN GOLF	515867	Monitor	Haven Golf	✓	WLO	
I-10	608525	Monitor	Sierrita	✓	WLO	
IW-1	623129	Extraction	Sierrita	✓	WLO	
IW-2A	216464	Extraction	Sierrita	✓	WLO	
IW-3A	623131	Extraction	Sierrita	✓	WLO	
IW-4	623132	Extraction	Sierrita	✓	WLO	
IW-5A	623133	Extraction	Sierrita	✓	WLO	
IW-6A	545565	Extraction	Sierrita	✓	WLO	

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	Annual Sampling (Second Quarter)	Semiannual Sampling (Fourth Quarter)	Quarterly Sampling
IW-8	508238	Extraction	Sierrita	✓	WLO	
IW-9	508236	Extraction	Sierrita	✓	WLO	
IW-10	508237	Extraction	Sierrita	✓	WLO	
IW-11	508235	Extraction	Sierrita	✓	WLO	
IW-12	545555	Extraction	Sierrita	✓	WLO	
IW-13	545556	Extraction	Sierrita	✓	WLO	
IW-14	545557	Extraction	Sierrita	✓	WLO	
IW-15	545558	Extraction	Sierrita	✓	WLO	
IW-16	545559	Monitor	Sierrita	WLO	WLO	
IW-17	545560	Monitor	Sierrita	WLO	WLO	
IW-18	545561	Monitor	Sierrita	WLO	WLO	
IW-19	545562	Extraction	Sierrita	✓	WLO	
IW-20	545563	Extraction	Sierrita	✓	WLO	
IW-21	545564	Extraction	Sierrita	✓	WLO	
IW-22	200554	Extraction	Sierrita	✓	WLO	
IW-23	200555	Extraction	Sierrita	✓	WLO	
IW-24	200556	Extraction	Sierrita	✓	WLO	
IW-25	219596	Extraction	Sierrita	✓	WLO	
IW-26	219143	Extraction	Sierrita	✓	WLO	
IW-27	219136	Extraction	Sierrita	✓	WLO	
IW-28	219137	Extraction	Sierrita	✓	WLO	
IW-29	222865	Extraction	Sierrita	✓	WLO	
M-5	87387	Monitor	Sierrita	WLO	WLO	
M-8	87390	Monitor	Sierrita	✓	✓	
M-9	501652	Monitor	Sierrita	✓	WLO	
M-10	501653	Monitor	Sierrita	✓	✓	
M-11	501654	Monitor	Sierrita	WLO	WLO	
M-13	508428	Monitor	Sierrita	WLO	WLO	
M-20	906595	Monitor	Sierrita	✓	WLO	
MC-1	221660	Extraction	Sierrita	✓	WLO	
MC-2	221761	Extraction	Sierrita	✓	WLO	
MC-3	221661	Extraction	Sierrita	✓	WLO	
MC-4	220842	Extraction	Sierrita	✓	WLO	
MH-1	803629	Monitor	Sierrita	WLO	WLO	

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	Annual Sampling (Second Quarter)	Semiannual Sampling (Fourth Quarter)	Quarterly Sampling
MH-3	803630	Monitor	Sierrita	WLO	WLO	
MH-5	803632	Monitor	Sierrita	WLO	WLO	
MH-6	803633	Monitor	Sierrita	WLO	WLO	
MH-7	803634	Monitor	Sierrita	WLO	WLO	
MH-9	803635	Monitor	Sierrita	WLO	WLO	
MH-10	803636	Monitor	Sierrita	✓	WLO	
MH-11	803637	Monitor	Sierrita	✓	WLO	
MH-12	803638	Monitor	Sierrita			
MH-13A	904071	Monitor	Sierrita	✓	WLO	
MH-13B	904072	Monitor	Sierrita	✓	WLO	
MH-13C	904073	Monitor	Sierrita	✓	WLO	
MH-14	528098	Monitor	Sierrita	WLO	WLO	
MH-15E	528094	Monitor	Sierrita	WLO	WLO	
MH-15W	528093	Monitor	Sierrita	WLO	WLO	
MH-16E	528100	Monitor	Sierrita	WLO	WLO	
MH-16W	528099	Monitor	Sierrita	WLO	WLO	
MH-24	563799	Monitor	Sierrita	WLO	WLO	
MH-25A	201528	Monitor	Sierrita	✓	WLO	
MH-25B	208429	Monitor	Sierrita	✓	WLO	
MH-25C	208426	Monitor	Sierrita	✓	WLO	
MH-26A	201527	Monitor	Sierrita	✓	WLO	
MH-26B	208427	Monitor	Sierrita	✓	WLO	
MH-26C	208428	Monitor	Sierrita	✓	WLO	
MH-28	903648	Monitor	Sierrita	✓	✓	
MH-29	903649	Monitor	Sierrita	✓	✓	
MH-30	903884	Monitor	Sierrita	✓	WLO	
MO-2007-1A	907342	Monitor	Sierrita	✓	✓	
MO-2007-1B	907210	Monitor	Sierrita	✓	✓	
MO-2007-1C	907209	Monitor	Sierrita	✓	✓	
MO-2007-2	906765	Monitor	Sierrita	✓	WLO	
MO-2007-3B[1]	906816	Sentinel	Sierrita	✓	✓	✓
MO-2007-3C[1]	906817	Sentinel	Sierrita	✓	✓	✓
MO-2007-4A[2]	907213	Sentinel	Sierrita	✓	✓	✓
MO-2007-4B[2]	907212	Sentinel	Sierrita	✓	✓	✓

TABLE 1
Sampling Schedule for Post-Implementation Groundwater Monitoring

Well Name	ADWR 55 Well Registry No.	Well Use	Owner	Annual Sampling (Second Quarter)	Semiannual Sampling (Fourth Quarter)	Quarterly Sampling
MO-2007-4C[2]	907211	Sentinel	Sierrita	✓	✓	✓
MO-2007-5B	907456	Monitor	Sierrita	✓	✓	
MO-2007-5C	907457	Monitor	Sierrita	✓	✓	
MO-2007-6A[3]	907607	Sentinel	Sierrita	✓	✓	✓
MO-2007-6B[3]	907606	Sentinel	Sierrita	✓	✓	✓
MO-2009-1[4]	910458	Sentinel	Sierrita	✓	✓	✓
NP-2[1]	605898	Sentinel	CWC	✓	✓	✓
PS-1	220861	Extraction	Sierrita	✓	WLO	
PS-2	220862	Extraction	Sierrita	✓	WLO	
PS-3	220863	Extraction	Sierrita	✓	WLO	
PS-4	220864	Extraction	Sierrita	✓	WLO	
PZ-7	561870	Monitor	Sierrita	✓	WLO	
PZ-8	561866	Monitor	Sierrita	✓	WLO	
S-1	623111	Extraction	Sierrita	WLO	WLO	
ST-6	608530	DWS	LQSWC	WLO	WLO	
TMM-1	616156	Monitor	Pima County	✓	✓	
1350	ND	Monitor	Sierrita	WLO	WLO	
1225	634394	Monitor	Sierrita	WLO	WLO	
1759	634393	Monitor	Sierrita	WLO	WLO	
2125	514015	Monitor	Sierrita	WLO	WLO	

Notes:
ADWR = Arizona Department of Water Resources
CC OF GV = Country Club of Green Valley
CWC = Community Water Company of Green Valley
DWS = Drinking Water Supply
GVDWID = Green Valley Domestic Water Improvement District
ND = No Data
Sierrita = Freeport-McMoRan Sierrita Inc.
WLO = Water Level Only
[1] *Sentinel Well for CW-9*
[2] *Sentinel Well for CW-6*
[3] *Sentinel Well for GV-01-GVDWID and GV-02-GVDWID*
[4] *Sentinel Well for CW-10*

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CC OF GV	501760	1/15/07	7.31	23.0	767	133
		4/16/07	7.44	22.6	767	133
		7/9/07	7.58	24.5	658	104
		1/10/08	7.27	22.5	689	143
		4/16/08	7.37	25.2	426	69.4
		7/7/08	6.97	23.7	736	119
		10/9/08	7.26	24.8	476	72.4
		2/4/09	8.08	13.8	399	107
		4/21/09	6.92	19.8	526	90.1
		4/22/10	6.99	21.26	929	95
		4/21/11	6.95	17.6	494	82
		6/26/12	7.13	27.7	565	88.69
		5/14/13	7.46	23.3	706	147.80
		4/23/14	6.94	22.3	744	156.00
		5/13/15	6.97	23.2	547	102
CW-3	627483	6/6/07	7.74	25.3	449	57.9
		8/10/07	7.40	25.9	444	59.5
		1/11/08	7.55	25.1	432	55.7
		4/17/08	7.32	25.6	398	54.1
		7/11/08	7.53	25.7	484	56.7
		10/6/08	7.50	25.3	430	56.2
		2/9/09	7.68	24.3	347	54.3
		4/24/09	6.75	25.4	520	56.2
		12/31/09	7.57	23.8	419	56.2
		4/22/10	7.32	23.03	475	57.7
		10/25/10	7.60	25.5	460	57.6
		5/2/11	7.55	26.4	390	56.8
		12/5/11	7.79	22.7	437	55.18
		6/18/12	7.57	28.4	517	61.70
		12/13/12	7.64	24.1	473	63.84
		12/13/12 DUP	7.64	24.1	473	64.04
		6/13/13	7.63	24.4	444	70.8
		11/12/13	7.24	23.8	417	67.2
		11/12/13 DUP	7.24	23.8	417	67.2
		5/6/14	7.81	24.3	393	70.7
		5/6/14 DUP	7.81	24.3	393	70.6
		10/15/14	7.78	24.8	424	67.5
		5/11/15	7.63	25.2	364	71.4
		5/11/15 DUP	7.63	25.2	364	70.0

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-6	627485	12/4/06	NM	NM	NM	46.2
		1/3/07	7.73	26.8	418	49.2
		1/3/07	7.73	26.8	418	49.5
		5/14/07	7.58	26.1	507	68.7
		7/10/07	7.60	26.9	475	57.6
		7/10/07	7.60	26.9	475	58
		1/8/08	7.64	27.1	368	48.9
		4/15/08	7.25	26.9	382	51.2
		7/8/08	7.43	27.2	416	47.9
		10/7/08	7.52	26.6	431	51.5
		10/7/08 DUP	7.52	26.6	431	51.5
		2/6/09	7.87	26.6	317	48.2
		4/22/09	7.62	25.3	377	47.9
		4/22/09 DUP	7.62	25.3	377	47.3
		9/17/09	7.18	24.8	478	70
		11/5/09	7.52	25.1	434	59.7
		2/10/10	7.68	24.4	369	46.6
		5/14/10	7.70	26.50	380	52.1
		7/27/10	7.50	27.5	444	55.2
		10/14/10	7.67	26.2	429	52.5
		2/24/11	7.57	23.4	455	70.3
		4/28/11	7.66	25.2	453	58.1
		7/20/11	7.52	25.5	417	81
		12/14/11	7.76	23.7	429	54.50
		12/14/11 DUP	7.76	23.7	429	54.42
		1/24/12	7.49	25.2	303	60.17
		5/9/12	7.70	26.5	489	80.99
		8/29/12	7.44	25.2	537	82.24
		12/12/12	7.47	23.6	541	82.98
		2/6/13	7.32	24.0	457	76.54
		5/15/13	7.63	24.7	513	91.94
		7/17/13	7.47	25.3	500	91.60
		10/23/13	7.50	25.1	365	85.1
		1/14/14	7.49	22.4	395	87.2
		4/16/14	7.65	24.4	434	85.6
		7/22/14	7.21	25.5	614	78.0
		10/13/14	7.71	23.9	464	79.5
		1/13/15	7.82	23.6	433	80.5
		4/14/15	7.31	24.4	430	91.1
		7/27/15	7.76	25.9	572	94.8
		7/27/15 DUP	7.76	25.9	572	94.3
CW-7	502546	1/3/07	7.38	27.4	1799	807
		5/14/07	7.40	27.4	1860	874
		7/10/07	7.32	27.4	1945	860
		1/8/08	7.26	27.3	1860	1080
		4/15/08	7.31	27.6	1758	900
		7/8/08	7.11	27.9	2037	890
		7/8/08 DUP	7.11	27.9	2037	910
CW-8	543600	1/24/07	7.67	29.7	1232	449
		5/14/07	7.69	29.4	1379	529
		7/10/07	7.63	29.8	1401	500
		1/8/08	7.59	7.6	1160	466
		4/15/08	7.54	29.5	1135	441
		7/8/08	7.40	29.8	1373	504

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-9	588121	12/4/06	NM	NM	NM	44.5
		1/3/07	7.74	27.0	387	44.9
		5/14/07	7.74	27.5	414	47.8
		7/10/07	7.68	22.6	414	46.7
		1/8/08	7.55	27.3	356	47.3
		4/15/08	7.39	27.4	347	43.7
		7/8/08	7.26	27.9	396	44.1
		10/7/08	7.50	27.7	395	43.5
		2/6/09	7.79	26.8	300	45.1
		4/22/09	7.81	26.3	361	44.3
		7/30/09	7.57	28.3	379	43.8
		11/5/09	6.82	27.4	376	44.7
		2/10/10	7.55	26.0	351	43.4
		5/14/10	7.62	28.1	345	44.2
		7/27/10	7.58	28.4	390	44.1
		10/14/10	7.72	27.5	389	44.2
		2/24/11	7.75	26.3	347	42.7
		4/28/11	7.68	28.8	377	44.4
		7/20/11	7.71	27.8	379	43.9
		12/14/11	7.69	26.5	373	43.80
		1/24/12	7.70	25.1	262	45.60
		5/9/12	7.67	28.3	356	44.39
		8/29/12	7.62	27.9	372	43.94
		12/12/12	7.75	26.6	382	42.14
		2/6/13	7.43	26.7	325	39.87
		5/15/13	7.70	27.0	367	45.78
		7/17/13	7.66	28.1	374	43.70
		10/23/13	7.66	26.9	260	44.4
		1/14/14	7.60	26.1	275	44.3
		1/14/14 DUP	7.60	26.1	275	44.1
		4/16/14	7.84	26.7	304	44.2
		7/22/14	7.47	27.6	446	41.8
		7/22/14 DUP	7.47	27.6	446	42.0
		10/13/14	7.97	27.0	329	42.0
		1/13/15	8.05	26.3	309	44.7
		4/14/15	7.52	27.0	311	47.0
		7/27/15	7.82	27.4	412	49.0

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
CW-10	207982	12/4/06	NM	NM	NM	37.2
		1/24/07	7.90	30.2	385	48.6
		5/14/07	7.81	31.3	392	52.8
		7/10/07	7.82	31.3	403	51.7
		1/8/08	7.79	28.2	334	45.3
		4/15/08	7.51	30.6	339	50.8
		7/8/08	7.34	31.2	385	50.5
		10/7/08	7.59	30.5	380	48.3
		2/6/09	7.91	29.8	295	51.3
		4/22/09	7.71	29.2	349	47.9
		7/30/09	7.60	31.5	375	49.2
		7/30/09 DUP	7.60	31.5	375	49.4
		11/5/09	7.60	29.7	364	49.9
		2/10/10	7.69	28.4	346	44.9
		5/14/10	7.79	30.7	349	49.1
		7/27/10	7.69	31.4	380	48.9
		10/14/10	7.74	30.2	377	48.5
		2/24/11	7.83	29.3	346	50.2
		2/24/11 DUP	7.83	29.3	346	50.2
		4/28/11	7.54	27.9	372	49.6
		7/20/11	7.72	31.4	383	50.7
		12/14/11	7.81	29.8	370	49.24
		1/24/12	7.77	28.7	265	52.32
		5/9/12	7.85	30.9	354	52.51
		8/29/12	7.74	31.4	369	50.95
		12/12/12	7.77	29.3	392	52.33
		2/6/13	7.52	29.3	332	47.91
		5/15/13	7.85	30.6	365	52.35
		5/15/13 DUP	7.85	30.6	365	52.77
		7/17/13	8.12	31.5	353	54.80
		10/25/13	7.70	29.8	260	51.7
		1/14/14	7.45	29.2	266	50.8
		4/16/14	7.93	30.0	298	50.2
		7/22/14	7.93	31.0	427	47.9
		10/13/14	7.98	30.7	322	48.2
		1/13/15	8.05	29.9	296	48.5
		4/14/15	7.60	29.9	315	56.7
		4/14/15 DUP	7.60	29.9	315	57.5
		7/27/15	7.83	31.2	399	55.1
ESP-1	623102	12/4/06	NM	NM	NM	262
		1/3/07	7.65	28.0	869	242
		5/14/07	7.70	28.7	592	113
		7/10/07	7.66	28.8	584	94
		1/23/08	7.73	27.6	492	100
		4/18/08	7.61	29.6	474	102
		7/25/08	7.52	28.4	561	104
		10/30/08	7.55	26.9	576	121
		1/29/09	7.44	25.2	491	113
		4/16/09	7.72	25.4	541	130
		11/10/09	7.45	26.8	649	173
		4/28/10	7.49	28.7	639	204
		10/15/10	7.49	27.7	953	291
		5/3/11	7.51	28.1	1060	359
		12/13/11	7.49	26.1	1046	387.52
		6/19/12	7.43	30.4	1221	395.72

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
ESP-2	623103	12/4/06	NM	NM	NM	29.6
		1/3/07	7.82	28.4	377	31.3
		5/14/07	7.86	27.8	368	28.4
		7/10/07	7.73	28.9	380	28.6
		1/23/08	7.85	25.8	366	30
		4/18/08	7.80	27.3	325	27.6
		7/25/08	7.65	28.6	361	26.8
		10/30/08	7.22	27.5	374	30.1
		10/30/08 DUP	7.22	27.5	374	30
		1/29/09	6.38	25.4	317	27.8
		4/16/09	7.55	24.0	307	28.2
		11/10/09	7.58	27.0	343	28.9
		4/28/10	7.67	27.9	324	28.7
		10/15/10	7.78	27.6	355	27.9
		10/15/10 DUP	7.78	27.6	355	27.8
		5/3/11	7.72	27.8	361	28.1
		5/3/11 DUP	7.72	27.8	361	28.1
		11/22/11	7.84	26.0	350	26.65
		6/19/12	7.65	31.7	387	27.75
		11/21/12	7.55	28.8	333	26.79
		5/20/13	7.70	28.2	350	27.86
		11/5/13	7.72	27.9	245	26.9
		4/28/14	7.91	27.5	291	28.3
		10/1/14	7.96	28.3	327	26.8
		5/12/15	7.89	27.5	274	29.1
ESP-3	623104	12/4/06	NM	NM	NM	36.2
		1/3/07	7.83	27.8	393	37.5
		5/14/07	7.78	28.8	374	36.6
		5/14/07	7.78	28.8	374	36.6
		7/10/07	7.84	29.2	378	36.6
		1/23/08	7.99	26.1	373	30
		4/18/08	7.82	27.8	322	35.7
		7/25/08	7.70	28.2	358	34
		10/30/08	7.58	27.8	375	36.8
		1/29/09	7.73	23.9	327	35.2
		4/16/09	7.62	26.1	327	35.3
		11/12/09	7.71	27.0	354	39.5
		4/28/10	7.77	25.8	326	35.8
		10/15/10	7.76	27.5	356	35.2
		5/3/11	7.82	27.2	362	35.1
		11/22/11	7.95	27.6	337	34.18
		6/19/12	7.87	30.6	390	34.98
		11/21/12	7.59	28.4	327	35.4
		5/22/13	7.71	26.7	368	35.87
		11/5/13	7.76	27.2	242	35.6
		4/28/14	7.90	27.7	287	35.9
		10/1/14	7.99	28.2	324	33.6
		5/12/15	7.90	27.8	269	36.4

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
ESP-4	623105	3/20/07	7.67	26.7	1187	393
		6/4/07	7.45	28.4	733	385
		7/24/07	7.34	28.4	918	410
		7/24/07	7.34	28.4	918	420
		1/23/08	7.83	24.4	787	520
		4/18/08	7.71	27.2	821	462
		7/25/08	7.52	28.6	1096	420
		10/30/08	7.23	25.9	962	489
		1/29/09	7.52	24.7	950	522
		4/16/09	7.30	25.4	873	521
		10/23/09	7.41	27.8	954	485
		4/28/10	7.37	26.7	936	558
		4/28/10 DUP	7.37	26.7	936	520
		10/15/10	7.41	27.9	1356	539
		5/3/11	7.54	27.1	1465	595
		11/12/12	7.60	26.3	1337	618.5
		5/20/13	7.46	28.5	1173	581.6
		11/5/13	7.47	26.8	843	585
		4/28/14	7.70	25.8	814	352
		10/1/14	7.69	26.5	993	397
		5/12/15	7.69	26.8	766	423
FFS-1	221662	2/4/14	7.63	23.2	3230	1780
		2/4/14 DUP	7.63	23.2	3230	1750
		4/15/14	7.61	25.6	1871	1760
		7/9/14	7.08	26.4	3080	1850
		11/11/14	7.44	25.5	3170	1790
		1/12/15	7.57	24.6	3150	1770
		1/12/15 DUP	7.57	24.6	3150	1760
		7/15/15	7.64	27.2	2980	1770
FFS-2	221663	2/4/14	7.61	24.4	3120	1730
		4/15/14	7.46	27.0	1788	1710
		4/15/14 DUP	7.46	27.0	1788	1730
		7/9/14	6.97	27.4	2920	1840
		7/9/14 DUP	6.97	27.4	2920	1820
		11/11/14	7.22	26.4	3100	1800
		1/12/15	7.48	26.3	3050	1760
		4/2/15	7.49	26.5	1570	1800
		4/2/15 DUP	7.49	26.5	1570	1800
		7/15/15	6.45	28.2	2900	1850
FFS-3	221664	2/4/14	7.37	29.5	2630	1450
		4/15/14	7.41	31.1	1559	1440
		7/9/14	6.98	32.0	2580	1560
		11/11/14	7.16	30.3	2670	1570
		1/12/15	7.43	29.6	1840	1500
		4/2/15	7.38	29.3	1433	1490
		7/15/15	6.93	31.6	2550	1560
FFS-4	221665	2/4/14	7.59	29.1	1857	1100
		4/15/14	7.64	31.4	1347	1140
		7/9/14	7.09	32.6	2190	1260
		11/11/14	7.21	30.6	1821	1310
		1/12/15	7.52	30.3	1603	1230
		4/2/15	7.58	30.0	1317	1230
		7/15/15	7.20	34.0	2150	1260

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
FFS-5	221666	2/4/14	7.36	27.5	2580	1360
		4/15/14	7.56	28.8	1528	1360
		7/9/14	6.93	30.0	2460	1400
		11/11/14	7.13	29.0	2570	1410
		11/11/14 DUP	7.13	29.0	2570	1320
		1/12/15	7.48	28.5	1776	1360
		4/2/15	7.40	28.0	1410	1390
		7/15/15	6.47	30.5	2460	1430
FFS-6	221667	2/4/14	7.41	27.4	2250	1260
		4/15/14	7.53	29.2	1378	1130
		7/9/14	6.94	29.9	2220	1210
		11/11/14	7.10	28.4	1833	1170
		1/12/15	7.52	29.2	1609	1180
		1/12/15 DUP	7.52	29.2	1609	1190
		4/2/15	7.47	27.2	1323	1210
		7/15/15	7.11	31.5	2190	1220
		7/15/15 DUP	7.11	31.5	2190	1260
GV-01-GVDWID	603428	8/6/06	NM	NM	NM	41.2
		1/9/07	8.00	25.8	424	40.9
		4/10/07	7.69	27.2	421	43.2
		7/11/07	7.64	26.8	447	41.5
		1/7/08	7.49	25.7	422	45.7
		4/16/08	7.29	25.8	399	44.1
		7/7/08	7.14	26.1	466	45.2
		10/9/08	7.25	26.6	414	39
		2/4/09	7.50	26.4	338	42.3
		4/22/09	7.05	27.8	380	40.6
		7/29/09	7.17	24.6	606	44.3
		11/4/09	7.45	25.1	415	45.1
		1/27/10	7.54	24.5	411	47.0
		4/1/10	7.49	24.6	420	48.5
		7/28/10	7.20	28.1	348	39.4
		10/14/10	7.29	26.4	411	38.4
		1/20/11	7.04	23.0	408	40.0
		4/28/11	7.30	27.5	421	42.9
		7/20/11	6.88	27.1	429	39.6
		12/7/11	7.68	25.4	416	39.31
		3/14/12	7.61	26.0	406	35.56
		6/7/12	7.21	26.9	420	37.87
		8/29/12	7.38	27.6	409	36.15
		11/15/12	7.27	23.9	450	33.95
		1/29/13	7.34	24.9	373	38.61
		5/16/13	7.64	26.8	398	38.80
		7/11/13	7.79	26.4	367	42.60
		7/11/13 DUP	7.79	26.4	367	42.50
		10/16/13	6.72	26.0	388	33.0
		1/10/14	7.31	24.2	486	34.2
		1/10/2014 DUP	7.31	24.2	486	34.2
		4/15/14	7.95	25.2	325	35.5
		7/21/14	7.42	27.3	498	31.9
		1/12/15	7.74	25.1	325	33.7
		4/15/15	7.56	27.2	347	37.6
		7/22/15	7.65	26.5	446	41.8

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
GV-02-GVDWID	603429	8/6/06	NM	NM	NM	48.6
		10/4/06	NM	NM	NM	95.3
		1/9/07	7.68	23.6	626	103
		4/10/07	7.60	24.1	479	106
		7/11/07	7.50	24.0	649	98
		1/7/08	7.32	23.3	611	98
		4/16/08	7.28	23.7	553	97
		7/7/08	7.12	23.8	642	93.2
		10/9/08	7.18	24.2	599	93.5
		2/4/09	7.36	23.9	489	98.8
		4/22/09	6.67	26.5	485	79.5
		7/29/09	7.02	26.4	427	91.6
		11/4/09	7.25	24.3	547	93.2
		1/27/10	7.47	22.0	547	94.9
		1/27/10 DUP	7.47	22.0	547	94.5
		4/1/10	7.33	22.9	555	99.5
		7/28/10	7.23	24.6	650	83
		10/14/10	7.36	24.5	629	90.7
		1/20/11	7.37	23.1	611	92.7
		4/28/11	7.43	24.5	612	87.3
		7/20/11	7.35	24.0	624	87.2
		12/7/11	7.53	21.8	578	77.88
		3/14/12	7.37	23.8	566	77.35
		6/7/12	7.14	24.0	559	71.78
		8/29/12	7.49	26.3	495	62.98
		8/29/12 DUP	7.49	26.3	495	63.26
		11/15/12	7.55	23.4	543	63.97
		1/29/13	7.35	22.7	457	61.02
		1/29/13 DUP	7.35	22.7	457	61.23
		5/16/13	7.54	24.4	482	63.14
		7/11/13	7.72	24.4	423	64.20
		10/16/13	6.67	23.5	469	53.3
		1/10/14	7.37	22.1	553	55.3
		4/15/14	7.92	23.5	343	45.7
		7/21/14	7.31	24.8	544	42.1
		10/14/14	7.73	23.5	449	48.5
		1/12/15	7.56	22.7	387	46.4
		4/15/15	7.18	23.9	419	58.7
		7/22/15	7.86	24.9	484	49.8
GV-SI-GVDWID	208825	10/4/06	NM	NM	NM	5.9
		1/9/07	7.90	26.7	358	5.7
		4/10/07	7.48	26.8	367	6.6
		7/11/07	7.59	27.1	389	6.9
		1/7/08	7.00	26.6	342	8
		4/16/08	7.27	26.4	331	2
		7/7/08	7.18	27.2	382	<0.5
		10/9/08	7.44	26.7	352	5.4
		2/4/09	7.56	27.3	290	6.2
		4/22/09	6.95	28.0	330	5.6
		4/1/10	7.55	26.1	339	6.9
		4/28/11	7.57	27.1	364	6.0
		6/20/12	7.33	28.5	367	8.46
		5/16/13	7.55	26.6	359	6.10
		4/14/14	7.92	25.8	290	5.89
		4/15/15	7.18	27.0	321	8.35

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
HAVEN GOLF	515867	2/6/07	7.28	23.0	683	107
		4/16/07	7.26	23.3	655	105
		7/9/07	7.57	32.8	622	80.1
		1/7/08	7.18	21.0	610	99
		4/15/08	7.34	24.8	629	106
		7/7/08	6.93	23.9	727	112
		10/7/08	7.31	27.8	588	92.3
		2/4/09	7.33	23.7	554	120
		2/4/09 DUP	7.33	23.7	554	119
		4/21/09	7.40	23.6	306	109
		4/22/10	6.85	20.8	726	109
		4/21/11	7.10	20.4	588	95
		5/29/12	6.41	279.0	633	88.05
		5/7/13	7.46	23.5	537	105.13
		4/22/14	6.99	24.5	571	97.40
		5/13/15	7.25	23.9	429	112
I-10	608525	4/16/07	7.17	28.8	878	533
		7/11/07	7.13	31.3	1013	550
		1/8/08	7.46	24.6	1164	520
		4/14/08	7.29	29.5	836	490
		7/21/08	7.19	30.9	1036	480
		10/28/08	7.18	29.7	1034	526
		1/20/09	7.13	27.6	1040	544
		5/12/09	7.15	28.0	997	495
		4/30/14	7.52	27.0	1072	629
IW-1	623129	11/15/06	NM	NM	NM	490
		1/10/07	6.97	25.1	1033	520
		4/9/07	7.24	26	918	480
		7/16/07	6.86	32.7	884	510
		1/16/08	7.38	28.5	959	610
		5/7/08	6.87	29.8	847	610
		7/23/08	6.57	29.5	1228	670
		10/24/08	7.01	30.9	1201	700
		1/27/09	6.61	23.6	1134	660
		4/20/09	7.01	29.0	1092	670
		4/12/10	6.79	29.6	1148	940
		5/11/11	7.02	27.1	2110	1050
		5/21/12	6.71	32.0	1689	900
		4/15/13	7.25	27.4	1676	980
		4/14/14	7.44	28.2	1120	896
		4/1/15	7.55	28.7	1302	1140
IW-2	623130	11/15/06	NM	NM	NM	100
		1/10/07	6.91	23.8	528	110
		4/3/07	7.08	25.3	492	90
		7/16/07	7.18	32.2	506	90
		1/16/08	7.76	28.1	470	70

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-2A	216464	4/22/08	6.99	30.5	382	80
		7/23/08	6.88	30.3	474	60
		10/24/08	7.43	30.3	473	60
		1/27/09	7.02	25	420	53
		4/20/09	6.85	28.0	405	54
		4/12/10	7.04	NM	28.9	77
		5/11/11	7.12	26.7	541	87
		5/11/11 DUP	7.12	26.7	541	88
		5/21/12	6.89	31.1	638	121
		4/15/13	7.01	27.0	550	123
		4/14/14	7.64	27.7	430	116
		4/1/15	7.94	27.8	536	150
IW-3A	201732	11/15/06	NM	NM	NM	1590
		4/3/07	7.29	25.1	1374	1540
		7/16/07	6.85	29.8	1184	1500
		1/16/08	7.20	27.4	1280	1490
		4/22/08	7.03	29.3	1224	1420
		7/23/08	6.62	29.3	1789	1460
		10/27/08	6.97	28.7	1679	1450
		1/27/09	6.82	23.1	1520	1550
		1/27/09 DUP	6.82	23.1	1520	1310
		4/20/09	6.69	27.2	1448	1400
		4/12/10	6.55	27.5	1380	1500
		5/11/11	6.75	25.6	2260	1650
		6/20/12	6.51	275.0	3170	1700
		5/14/13	7.01	27.7	2660	1600
		4/14/14	7.34	25.9	1757	1720
		4/1/15	7.55	26.2	1619	1820
IW-4	623132	1/18/07	6.81	22.4	2210	1610
		1/18/07	6.81	22.4	2210	1590
		4/11/07	6.6	28.2	1252	1600
		7/18/07	6.61	29.1	1462	1450
		1/16/08	7.00	25.2	1326	1590
		4/22/08	6.59	28.6	1264	1540
		7/23/08	6.70	31.0	1899	1640
		10/24/08	6.92	27.9	1924	1630
		1/27/09	6.58	23.9	1718	1460
		4/20/09	6.79	25.6	1604	1400
		4/12/10	6.49	26.8	1483	1600
		5/11/11	6.57	25.8	3070	1700
		5/21/12	6.57	27.5	2650	1500
		4/15/13	6.93	24.2	2750	1800
		4/14/14	7.01	24.3	1903	1690
IW-5	623133	1/16/07	7.34	23.1	1511	1710
		7/18/07	6.82	27.0	1716	1610
		1/16/08	7.11	24.1	1380	1690
		4/21/08	6.64	27.5	1326	1550
		7/23/08	6.76	30.1	1370	1730
		10/27/08	6.57	26.8	1886	1720
		1/27/09	6.44	19.5	1560	1630
		4/20/09	6.73	24.7	1635	1600
		4/12/10	6.59	25.7	1476	1800
		4/12/10 DUP	6.59	25.7	1476	1700

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-5A	219131	4/20/11	6.78	22.2	3210	1740
		5/22/12	6.68	26.6	2880	1600
		4/15/13	6.84	24.2	2910	1760
		4/15/13 DUP	6.84	24.2	2910	1740
		4/14/14	6.96	24.5	3120	1750
IW-6A	545565	11/15/06	NM	NM	NM	1760
		1/16/07	7.25	22.5	1562	1800
		4/9/07	6.69	26	1627	1830
		7/25/07	6.67	24.5	1609	1930
		1/16/08	7.21	23.1	1489	1910
		1/16/08 DUP	7.21	23.1	1489	1800
		4/21/08	7.30	25.4	1309	1920
		7/17/08	6.84	27.1	1510	1850
		10/24/08	6.61	25.5	1999	1930
		1/26/09	6.58	21.9	1959	1600
		4/20/09	6.78	25.6	1710	1700
		4/12/10	6.99	34.2	1437	1800
		5/11/11	6.82	23.4	3390	1900
		5/22/12	6.61	27.3	2950	1800
		4/15/13	6.86	23.9	3030	1840
		4/14/14	6.99	23.4	3270	1890
IW-8	508236	4/3/07	7.11	24.1	1523	1760
		7/18/07	6.82	29.5	1328	1870
		1/16/08	7.30	24.3	1386	1900
		4/22/08	6.86	27.5	1301	1700
		7/23/08	6.78	27.5	1440	1870
		10/24/08	6.85	27.4	1976	1890
		1/27/09	6.38	20.4	1816	1630
		4/20/09	6.75	25.4	1620	1700
		4/12/10	6.52	25.6	1547	1900
		5/11/11	6.67	23.9	1965	1900
		5/21/12	6.62	28.7	2670	1700
		5/14/13	6.96	26.9	2800	1700
		4/1/15	7.47	24.8	1687	1800
IW-9	508238	11/15/06	NM	NM	NM	1760
		1/18/07	7.40	22.6	1690	1670
		4/11/07	6.73	25.1	1424	1750
		7/18/07	6.78	29.4	1547	1810
		1/16/08	7.01	26.1	1359	1700
		4/22/08	6.86	28.5	1328	1670
		7/23/08	6.88	28.8	1420	1730
		10/24/08	6.88	28.6	1981	1720
		10/24/08 DUP	6.88	28.6	1981	1720
		1/27/09	6.69	21.7	1774	1500
		4/20/09	6.79	26.9	1585	1600
		4/12/10	6.95	29.2	1579	1800
		4/12/10 DUP	6.95	29.2	1579	1800
		5/26/11	6.95	26.2	3850	1810
		5/21/12	6.58	29.2	2680	1700
		4/15/13	6.90	25.6	2880	1730
		4/14/14	7.20	25.3	1882	1780

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-10	508237	11/15/06	NM	NM	NM	1650
		1/16/07	7.38	23.7	1303	1670
		4/3/07	7.11	26.7	1520	1750
		7/18/07	6.78	28.3	1734	1770
		1/16/08	7.91	24.0	537	1800
		4/21/08	6.68	27.2	1338	1470
		7/23/08	6.90	28.4	1460	1740
		10/24/08	6.77	27.0	1969	1730
		1/27/09	6.64	20.7	1560	1490
		4/20/09	6.80	24.8	1607	1600
		4/12/10	6.61	26.5	1431	1700
		5/11/11	6.67	24.3	3310	1800
		5/22/12	6.78	26.9	2890	1700
		4/15/13	6.85	23.6	2980	1740
		4/14/14	6.94	23.4	3320	1820
		4/1/15	7.33	23.1	1894	1870
IW-11	508235	11/21/06	NM	NM	NM	1600
		1/16/07	7.10	21.7	1516	1700
		4/9/07	6.76	26.2	1342	1760
		7/18/07	6.84	26.8	1788	1770
		1/16/08	7.15	22.3	1370	1800
		4/21/08	6.53	26	1303	1770
		4/21/08 DUP	6.53	26	1303	1850
		7/29/08	6.58	24.4	1830	1720
		10/24/08	6.89	26.3	1958	2260
		1/27/09	6.56	19.1	1540	1600
		4/20/09	6.64	25.1	1632	1600
		4/12/10	6.63	24.6	1492	1700
		5/11/11	6.51	25.0	3250	1700
		5/22/12	6.76	25.5	2810	1600
		4/15/13	6.82	23.7	2890	1730
		4/14/14	7.00	22.3	3210	1710
		4/1/15	7.31	23.2	1915	1790
IW-12	545555	1/16/07	6.93	22.3	1444	1620
		4/17/07	6.56	25.9	1345	1630
		7/25/07	6.55	25.2	1483	1700
		1/16/08	6.87	23.4	1428	1700
		1/16/08 DUP	6.87	23.4	1428	1700
		4/11/08	6.51	27.4	1426	1580
		7/17/08	6.76	28.4	1917	1630
		10/24/08	6.81	26.5	1879	1520
		1/26/09	6.70	23.7	1792	1440
		4/20/09	6.63	26.5	1576	1500
		4/12/10	6.70	22.8	1579	1500
		5/11/11	6.74	25.8	3120	1700
		5/22/12	6.66	27.7	2640	1600
		5/14/13	6.92	27.2	2540	1500
		4/14/14	7.02	24.4	2980	1430
		4/1/15	7.39	24.2	1851	1600

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-13	545556	4/17/07	6.81	25.8	1430	1690
		7/25/07	6.61	25.1	1560	1940
		7/25/07	6.61	25.1	1560	1780
		1/16/08	6.64	24.0	1599	1800
		4/11/08	6.61	26.8	1502	1800
		7/17/08	6.6	30	1898	1850
		10/24/08	6.70	26.1	1999	1930
		1/26/09	6.49	23.6	1951	1600
		4/20/09	6.73	27.2	1697	1700
		4/12/10	6.64	24.1	1669	1900
		5/11/11	6.70	25.3	3360	1900
		6/20/12	6.67	25.9	3450	1900
		4/15/13	6.73	24.9	3030	1760
		4/14/14	6.99	23.6	3440	1900
		4/14/14 DUP	6.99	23.6	3440	1730
		4/1/15	7.25	24.3	2910	1860
		4/1/15 DUP	7.25	24.3	2910	1930
IW-14	545557	11/15/06	NM	NM	NM	1820
		1/16/07	6.72	22.4	1484	1790
		1/16/07	6.72	22.4	1484	1810
		4/16/07	6.63	24.4	1383	1790
		7/25/07	6.51	24.7	1462	1910
		1/16/08	7.03	23.2	1646	1800
		4/11/08	6.49	26.8	1460	1810
		7/16/08	6.59	29.9	1901	1870
		10/24/08	6.51	26.4	1929	1840
		1/26/09	6.52	23	1869	1600
		4/20/09	6.66	27.1	1612	1700
		4/21/10	6.89	24.8	1428	1900
		5/11/11	7.54	25.7	3460	1900
		5/22/12	6.48	31.8	2620	1800
		4/15/13	6.91	24.4	3020	1870
		4/14/14	7.01	23.1	3490	1730
		4/1/15	7.24	23.7	1947	1930
IW-15	545558	11/15/06	NM	NM	NM	1710
		1/16/07	7.04	23.9	1420	1730
		4/16/07	6.82	27.4	1314	1740
		7/25/07	6.32	26.6	1388	1760
		1/16/08	7.07	22.3	1561	1740
		4/11/08	6.42	28.3	1395	1670
		7/15/08	6.75	31.3	1790	1730
		10/24/08	6.6	26.0	1892	1850
		1/27/09	6.86	21.8	1935	1630
		4/20/09	7.71	28.5	1302	1600
		4/20/09 DUP	7.71	28.5	1302	1700
		4/12/10	6.69	25.0	1669	1700
		5/11/11	7.54	26.2	3270	1800
		5/11/11 DUP	7.54	26.2	3270	1800
		5/22/12	6.74	29.4	2850	1800
		5/14/13	7.03	27.1	2770	1700
		4/14/14	6.98	23.9	3240	1800
		4/1/15	6.89	24.7	1927	1860

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-16	545559	11/15/06	NM	NM	NM	1730
		1/16/07	7.18	23.8	1415	1730
		4/17/07	6.86	26.8	1320	1770
		4/17/07	6.86	26.8	1320	1790
		7/25/07	6.63	26.5	1368	1800
		1/16/08	7.07	23.3	1561	1740
		4/11/08	6.64	26.4	1404	1770
		7/15/08	6.52	31.2	1778	1840
		10/24/08	6.35	25.7	1879	1850
		1/26/09	6.44	23.9	1773	1620
		4/20/09	6.69	27.1	1347	1700
		4/12/10	6.79	25.6	1652	1800
IW-17	545560	11/15/06	NM	NM	NM	1570
		1/16/07	6.79	21.8	1402	1600
		4/16/07	6.90	26.3	1303	1670
		7/25/07	6.61	27.2	1348	1730
		1/16/08	6.74	16.5	1485	1720
		4/11/08	6.49	28.5	1398	1730
		7/15/08	6.63	31.7	1853	1770
		10/24/08	6.70	27.0	1864	1720
		1/26/09	6.41	24.1	1828	1480
		4/20/09	6.77	30.1	1332	1600
		4/12/10	6.63	26.5	1604	1700
IW-18	545561	11/21/06	NM	NM	NM	1610
		1/18/07	7.26	15.4	1460	1660
		4/16/07	6.80	24.9	1161	1610
		7/25/07	6.45	28.1	1293	1760
		1/14/08	6.39	21.9	1899	1700
		4/11/08	6.61	27.5	1388	1540
		7/15/08	6.71	30.2	1847	1710
		10/24/08	6.34	27.1	1883	1680
		1/26/09	6.39	24.7	1779	1460
		4/20/09	6.77	29.9	1337	1700
		4/29/10	6.63	23.7	1455	1600
IW-19	545562	11/21/06	NM	NM	NM	1570
		1/11/07	7.19	25.1	1802	1630
		4/16/07	6.69	26.7	1296	1630
		7/25/07	6.91	26.3	1310	1650
		1/10/08	6.39	22.4	1881	1800
		1/10/08 DUP	6.39	22.4	1881	1800
		4/11/08	6.62	26.3	1409	1680
		7/15/08	6.78	29.4	1807	1670
		10/24/08	6.6	28.7	1685	1710
		1/26/09	6.47	24.3	1852	1370
		4/20/09	6.82	27.9	1366	1600
		4/12/10	6.62	26.4	1570	1600
		5/11/11	6.68	26.6	3200	1700
		5/22/12	6.56	30.7	2730	1300
		5/14/13	6.85	28.7	2690	1600
		4/14/14	7.01	24.5	3170	1780
		4/1/15	7.43	23.6	1945	1910

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-20	545563	11/21/06	NM	NM	NM	1550
		1/11/07	7.23	26.4	2360	1630
		4/9/07	7.07	27.2	1260	1500
		7/24/07	6.69	30.8	1822	1580
		1/9/08	6.72	26.4	1710	1700
		4/11/08	6.74	27.3	1400	1560
		7/15/08	6.6	29.4	1650	1640
		10/24/08	6.81	28.6	1779	1600
		1/26/09	6.48	24.1	1837	1450
		4/20/09	6.76	30.0	1375	1500
		4/29/10	6.62	24.2	1417	1600
		5/11/11	7.07	26.3	3080	1600
		6/20/12	6.67	28.2	3080	1600
		6/17/13	7.21	31.1	1785	1900
		6/17/13 DUP	7.21	31.1	1785	1800
		4/14/14	7.04	26.2	3220	1690
		4/1/15	7.07	26.2	1977	1700
IW-21	545564	11/21/06	NM	NM	NM	1580
		1/11/07	7.15	27.8	1848	1620
		4/17/07	6.85	29.4	1424	1650
		7/24/07	6.68	30.6	1828	1630
		1/9/08	6.33	25.4	1975	1800
		4/11/08	6.85	24.6	1375	1610
		4/11/08 DUP	6.85	24.6	1375	1610
		7/29/08	6.49	29	1780	1670
		10/24/08	6.91	29.7	1833	1640
		1/26/09	6.59	25.7	1410	1390
		4/20/09	6.83	30.7	1422	1600
		4/12/10	6.72	28.1	1621	1700
		5/11/11	6.77	29.6	3140	1700
		6/20/12	6.65	29.2	3130	1700
		4/15/13	6.94	28.8	2840	1690
		4/14/14	7.18	28.2	3170	1720
IW-22	200554	11/21/06	NM	NM	NM	1710
		1/23/07	6.90	22.1	1253	1660
		4/9/07	7.09	26	1325	1740
		7/18/07	6.99	28.1	1683	1790
		1/16/08	7.19	23.1	1378	1700
		4/21/08	6.53	28.7	1362	1760
		4/21/08 DUP	6.53	28.7	1362	1410
		7/23/08	6.86	28.9	1370	1760
		10/24/08	6.89	26.4	1929	1720
		1/27/09	6.58	19.9	1570	1610
		4/20/09	6.77	25.5	1635	1700
		4/12/10	6.59	25.4	1472	1800
		5/11/11	6.75	24.5	3290	1800
		5/22/12	6.72	26.6	2870	1600
		4/15/13	7.19	22.5	2990	1810
		4/14/14	7.05	22.5	3240	1620
		4/1/15	7.36	23.7	1874	1770

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
IW-23	200555	11/21/06	NM	NM	NM	1540
		1/23/07	6.6	22.8	1249	1640
		4/11/07	6.88	26.7	1528	1670
		7/25/07	6.49	24.7	1541	1670
		1/16/08	7.17	24.3	1303	1680
		4/21/08	6.71	28.6	1314	1710
		7/23/08	6.84	27.5	1420	1730
		10/24/08	6.81	27.9	1966	1780
		1/27/09	6.52	19.9	1963	1650
		4/20/09	6.82	25.4	1607	1700
		4/12/10	6.81	26.6	1491	1700
		5/11/11	6.83	24.6	3280	1800
		5/22/12	6.72	28.9	2700	1600
		4/15/13	6.79	24.0	2930	1800
		4/14/14	6.95	23.9	3180	1800
		4/1/15	7.35	23.7	1838	1890
IW-24	200556	7/18/07	6.78	29.0	1739	1790
		1/16/08	7.06	24.2	1387	1700
		4/22/08	6.68	28.7	1141	1650
		4/22/08 DUP	6.68	28.7	1141	1750
		7/23/08	6.68	30.7	1420	1730
		10/24/08	6.71	28.1	1058	1640
		1/27/09	6.43	21.3	1510	1560
		4/20/09	6.79	25.6	1604	1600
		4/20/09 DUP	6.79	25.6	1604	1500
		4/12/10	6.70	27.1	1450	1600
		5/11/11	6.76	24.6	3260	1700
		5/22/12	6.47	27.3	2800	1700
		4/15/13	6.83	24.4	2800	1900
		4/14/14	7.06	25.0	1958	1710
		4/14/14 DUP	7.06	25.0	1958	1760
		4/1/15	7.50	24.1	1732	1760
IW-25	219596	4/15/13	7.01	27.6	932	390
		4/14/14	7.56	27.9	688	348
IW-26	219143	4/15/13	7.00	25.6	2620	1700
		4/1/15	7.53	27.3	1683	1630
IW-27	219136	4/14/14	7.16	22.4	3210	1760
		4/1/15	7.41	25.6	1683	1670
		4/1/15 DUP	7.41	25.6	1683	1710
IW-28	219137	4/15/13	7.03	24.2	2930	1720
		4/14/14	7.08	25.0	3230	1740
		4/1/15	7.48	25.8	1807	1730
IW-29	222865	4/1/15	7.28	26.5	1758	1750

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
M-8	087390	12/6/06	7.50	25.5	380	NA
		12/6/06	7.60	NM	380	NA
		4/16/07	7.87	23.1	424	<0.5
		7/11/07	7.67	28.2	415	16.5
		1/9/08	7.68	23.7	458	50
		4/15/08	6.85	28	362	28.7
		7/25/08	7.62	27	398	24.5
		10/28/08	7.67	27.8	406	26.3
		10/28/08 DUP	7.67	27.8	406	26.2
		1/20/09	7.49	25.2	397	36.8
		5/12/09	7.62	26.8	387	29.6
		11/5/09	7.61	26.6	382	31.4
		5/28/10	7.63	26.9	448	45.1
		10/21/10	7.64	25.5	435	46.9
		6/15/11	7.57	26.1	501	59.3
		11/17/11	7.88	23.6	522	84.577
		6/29/12	7.73	27.9	417	24
		10/29/12	7.62	25.7	419	16.45
		4/17/13	7.74	27.1	567	140.61
		5/21/13	7.78	27.0	374	28.85
		10/29/13	7.61	25.6	258	18.3
		4/22/14	7.85	23.4	351	20.2
		11/4/14	7.85	25.4	445	19.6
		4/6/15	7.96	27.7	293	20.6
M-9	501652	1/17/07	7.50[2]	26.0	460	NA
		7/11/07	7.72	27.0	334	NA
		1/8/08	6.51	25.7	533	80
		1/8/08	7.67	26.7	480.7	65
		4/14/08	7.74	27.8	422	67.2
		7/21/08	7.52	29.5	485	68.7
		10/28/08	7.66	30.3	503	74.8
		1/20/09	7.64	24.1	470	81.6
		5/13/09	7.54	27.3	487	80.2
		7/14/09	7.60	27.0	420	81.7
		6/16/10	7.63	26.6	511	77
		6/2/11	7.59	27.1	525	75
		6/27/12	7.26	27.4	581	81
		5/1/13	7.81	26.5	461	66.05
		4/22/14	7.82	26.2	550	106.00
		1/20/15	7.92	25.8	490	74.00
		4/6/15	7.83	25.3	346	57.8

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
M-10	501653	7/19/06	NM	NM	NM	66
		1/16/07	7.90	29.0	440	NA
		4/16/07	7.97	28.2	475	72.6
		7/12/07	8.05	27.0	322	NA
		1/8/08	7.91	24.8	537	73
		4/15/08	7.99	27.6	428	81
		7/21/08	7.69	31	489	89.8
		10/28/08	8.08	28.1	521	97.1
		1/20/09	7.91	29	467	95
		5/12/09	7.77	26.9	487	97
		7/14/09	7.20	25.0	420	96
		11/5/09	7.13	30.5	479	110
		11/5/09 DUP	7.13	30.5	479	107
		5/28/10	7.83	30.1	497	121
		10/21/10	7.76	27.1	585	139
		5/10/11	7.86	28.9	641	149
		11/16/11	8.04	27.6	612	162
		6/25/12	7.61	29.8	162	162
		10/29/12	7.88	27.0	645	158
		4/17/13	7.90	28.9	618	170.32
		10/29/13	7.94	27.3	431	164
		4/22/14	8.16	25.4	585	165
		11/4/14	8.34	25.2	472	114
		1/19/15	8.48	25.9	611	151
		1/19/15 DUP	8.48	25.9	611	157
		4/6/15	8.14	28.6	560	166
M-20	906595	3/22/07	7.10	27.0	3500	NA
		7/12/07	7.44	27.0	1970	NA
		1/9/08	7.15	25.6	1853	1750
		1/9/08	7.29	26.3	2878	1500
		4/14/08	7.18	27	1277	1550
		7/25/08	6.99	27.6	1857	1550
		10/28/08	7.03	28.2	1688	1660
		1/20/09	6.95	27.1	1506	1760
		5/12/09	6.88	28.0	1501	1580
		5/28/10	7.22	28.2	3050	1620
		5/9/11	7.29	27.8	2790	1710
		6/26/12	7.15	28.3	3050	1722.9
		4/23/13	7.50	26.6	2720	1801.6
		4/22/14	9.25	26.2	2590	1460
		4/22/14 DUP	9.25	26.2	2590	1440
		4/27/15	7.58	27.9	2770	1720
MC-1	221660	2/4/14	7.57	25.4	3080	1620
		4/15/14	7.55	27.2	1797	1680
		7/9/14	6.97	28.2	2850	1750
		11/11/14	7.10	26.9	2970	1750
		1/12/15	7.46	26.1	2960	1660
		4/2/15	7.45	26.9	1513	1710
		7/15/15	6.51	29.1	2890	1810

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MC-2	221761	2/4/14	7.61	25.4	2630	1330
		4/15/14	7.45	27.3	1546	1320
		7/9/14	6.93	28.6	2410	1360
		11/11/14	7.13	27.5	1922	1260
		1/12/15	7.59	26.8	1697	1200
		4/2/15	7.49	26.5	1368	1200
		7/15/15	7.59	29.4	2220	1290
MC-3	221661	2/4/14	7.46	24.6	2690	1380
		4/15/14	7.68	27.9	1555	1350
		7/9/14	6.91	28.7	2480	1510
		11/11/14	7.14	27.2	2610	1440
		1/12/15	7.61	26.8	1794	1350
		4/2/15	7.52	26.7	1338	1390
		7/15/15	7.44	29.8	2400	1410
MC-4	220842	2/4/14	7.11	25.9	2440	1210
		4/15/14	7.64	29.2	1437	1160
		7/9/14	6.76	29.2	2320	1300
		7/9/14 DUP	6.76	29.2	2320	1310
		11/11/14	7.06	27.9	1926	1280
		1/12/15	7.58	27.9	1665	1220
		4/2/15	7.45	27.6	1310	1230
		7/15/15	7.49	31.0	2280	1220
MH-10	803636	11/8/06	NM	NM	NM	1330
		1/9/07	6.70	28.5	1717	1310
		4/3/07	6.86	30.2	1267	1360
		7/16/07	6.87	31.4	1138	1410
		1/3/08	6.41	24.8	1626	1430
		4/28/08	6.60	31	973	1460
		7/31/08	7.07	32.5	1827	1550
		11/4/08	7.02	26.0	1856	1450
		1/2/09	6.54	26.1	1798	1400
		4/14/09	6.62	28.1	1260	1260
		4/26/10	7.05	29.9	1365	1500
		4/26/10 DUP	7.05	29.9	1365	1400
		5/18/11	7.03	27.4	2900	1600
		6/5/12	6.88	29.3	2910	1500
		6/10/13	7.17	30.2	1791	1720
		4/23/14	7.05	26.8	2910	1540
		4/14/15	7.10	28.5	1389	1560
MH-11	803637	1/11/07	7.33	25.0	1778	1590
		4/10/07	7.02	28.3	1327	1580
		7/17/07	6.87	28.8	1848	1650
		1/4/08	6.44	26.3	1690	1560
		4/29/08	6.48	30.2	959	1700
		7/29/08	6.97	32.2	1767	1550
		11/7/08	7.01	27.1	1350	1560
		1/16/09	7.04	27.5	1454	1400
		5/13/09	6.62	31.0	1569	1500
		4/27/10	6.61	29.3	1382	1400
		5/24/11	6.77	27.4	2650	1500
		5/30/12	6.83	30.3	2730	1440
		4/23/13	7.34	27.7	2410	1480
		4/29/14	7.12	27.6	1946	1590
		4/16/15	7.14	27.9	2060	1550

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-13A	904071	11/10/06	NM	NM	NM	1680
		1/24/07	7.87	25.0	1458	1700
		4/18/07	7.1	27.4	1609	1720
		7/17/07	6.98	28.1	1553	1760
		1/4/08	6.97	26.1	1810	1710
		4/29/08	7.09	28.8	1174	1800
		7/16/08	7.03	27.4	1824	1720
		7/16/08 DUP	7.03	27.4	1824	1710
		10/20/08	7.07	27.7	1984	1800
		1/23/09	6.84	25.1	1510	1700
		4/15/09	7.12	25.6	1643	1650
		4/21/10	7.24	25.3	1384	1700
		5/23/11	7.12	26.9	3450	1840
		6/11/12	7.10	27.6	3340	1680
		4/3/13	7.20	25.9	2870	1760
		4/10/14	10.34	22.9	1820	1190
		4/22/15	9.19	24.6	1322	1100
MH-13B	904072	11/10/06	NM	NM	NM	1080
		1/24/07	8.07	25.9	1262	1100
		4/18/07	7.36	30	1396	1120
		7/17/07	7.28	28.5	1786	1150
		1/4/08	7.21	27.2	1576	1110
		4/29/08	7.26	29.6	985	1110
		7/16/08	7.42	31.5	1589	1110
		10/20/08	7.34	29.6	1627	1080
		1/23/09	7.13	26.6	1639	1130
		4/15/09	7.50	25.4	1370	1030
		4/15/09 DUP	7.50	25.4	1370	1100
		4/21/10	7.57	28.8	1100	1030
		5/23/11	7.28	28.3	2400	1090
		5/23/11 DUP	7.28	28.3	2400	1110
		6/11/12	7.24	29.1	2310	1020
		4/3/13	7.42	27.5	1818	1050
		4/10/14	9.56	25.7	1510	849
		4/22/15	9.54	26.9	1246	903
MH-13C	904073	11/10/06	NM	NM	NM	90
		1/24/07	9.12	22.9	450	100
		4/18/07	9.2	29.1	379	20
		7/17/07	8.78	33.8	380	20
		1/4/08	8.99	26.6	396	20
		5/7/08	8.71	30.4	363	40
		7/16/08	8.69	32.01	371	70
		10/20/08	8.90	32.8	380	60
		1/27/09	7.99	27.3	323	30
		4/15/09	8.79	25.9	421	42
		4/21/10	8.84	28.0	385	27
		5/23/11	8.65	30.4	364	43
		6/11/12	8.61	30.7	411	50
		4/3/13	8.77	28.3	340	45
		4/10/14	9.69	25.6	275	1.2
		4/22/15	9.14	26.8	211	0.78
MH-14	528098	4/21/15	7.35	26.6	1459	1650

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-16W	528099	11/4/14	7.76	23.3	3220	1880
		11/4/14 DUP	7.76	23.3	3220	1800
		4/21/15	7.36	23.6	1372	1830
MH-25A	201528	11/13/06	NM	NM	NM	190
		1/10/07	8.09	26.0	344	10
		4/4/07	7.82	26.6	322	<10
		7/20/07	7.63	28.6	431	<10
		1/2/08	7.91	25.3	401	10
		4/25/08	7.54	27	311	30
		7/2/08	7.66	27.6	342	<10
		10/17/08	7.84	27.5	333	50
		1/5/09	7.75	24.5	336	12
		4/15/09	7.81	25.1	350	4
		4/13/10	7.76	25.3	334	9
		4/27/11	7.76	25.9	358	16
		5/1/12	7.83	27.8	376	13
		4/3/13	7.69	26.8	335	9
		4/15/14	7.92	25.0	265	17
		4/7/15	7.82	26.1	268	12.3
MH-25B	208429	11/13/06	NM	NM	NM	1660
		1/10/07	7.54	26.1	1440	1680
		4/4/07	7.32	28.7	1333	1550
		7/20/07	7.16	28.4	1649	1760
		1/2/08	7.10	26.5	1900	1730
		4/25/08	7.05	28.6	1138	1750
		7/2/08	7.04	28.6	1851	1650
		10/17/08	7.74	28.8	1768	1660
		1/5/09	7.22	24.9	1581	1590
		4/15/09	7.25	25.2	1483	1600
		4/13/10	7.59	28.1	1120	900
		4/27/11	7.35	27.0	3050	1810
		6/15/11	7.31	29.3	3690	1700
		5/1/12	7.31	29.3	1864	1690
		4/3/13	7.46	27.9	2620	1700
		4/15/14	7.82	26.6	1714	1740
		4/7/15	8.00	27.4	1430	1580
MH-25C	208426	11/13/06	NM	NM	NM	1290
		1/10/07	7.46	26.3	1361	1250
		4/13/07	7.24	26	1357	1260
		7/20/07	7.13	30.2	1599	1240
		1/2/08	7.25	28.2	1608	1250
		4/25/08	7.20	30	1031	1240
		7/2/08	7.13	28.4	1736	1330
		10/17/08	7.17	30.4	1624	1270
		1/5/09	7.15	27	1466	1250
		4/15/09	7.28	26.6	1368	1270
		4/13/10	7.24	27.6	1292	1600
		4/27/11	8.41	25.1	1874	1290
		5/1/12	7.39	29.5	1667	1290
		4/3/13	7.44	28.0	1838	1270
		4/3/13 DUP	7.44	28.0	1838	1290
		4/15/14	7.87	27.6	1411	1090

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-26A	201527	11/13/06	NM	NM	NM	10
		1/15/07	7.89	26.2	316	<10
		4/4/07	7.83	27	325	10
		7/19/07	7.80	26.9	428	20
		1/2/08	7.72	25.3	395	<10
		4/25/08	7.62	25.3	317	100
		7/2/08	7.57	27.8	337	20
		10/17/08	7.70	27.4	327	20
		1/5/09	7.65	26.4	343	13
		4/21/09	7.57	26.3	322	10
		4/13/10	7.60	26.7	332	8
		4/27/11	7.78	25.7	357	8
		4/27/11 DUP	7.78	25.7	357	9
		5/2/12	7.59	27.5	386	9
		4/4/13	7.72	27.0	350	8
		4/15/14	7.78	24.3	210	11.6
MH-26B	208427	11/13/06	NM	NM	NM	1560
		1/15/07	7.53	26.4	1310	1590
		4/4/07	7.31	30.5	1448	1620
		7/19/07	7.10	29.0	1652	1590
		7/19/07	7.10	29.0	1652	1570
		1/2/08	7.09	26.5	1849	1670
		4/25/08	6.95	28.8	1095	1630
		7/2/08	6.98	29.1	1835	1660
		10/20/08	7.16	29.2	1760	1650
		1/5/09	7.07	26.4	1661	1540
		1/5/09 DUP	7.07	26.4	1661	1500
		4/21/09	6.85	28.8	1238	1520
		4/13/10	7.27	27.3	1290	1600
		5/5/11	7.17	27.2	2910	1710
		5/1/12	7.26	29.7	1912	1680
		5/1/12 DUP	7.26	29.7	1912	1750
		4/4/13	7.26	28.4	2550	1690
		4/15/14	7.89	27.2	1661	1570
		4/7/15	8.05	27.6	1433	1650
MH-26C	208428	11/13/06	NM	NM	NM	730
		1/15/07	7.89	24.6	1059	740
		4/4/07	7.58	29.5	1128	720
		7/19/07	7.55	30.5	1267	730
		7/19/07	7.55	30.5	1267	740
		1/2/08	7.68	28.2	1411	740
		4/25/08	8.58	27.8	872	580
		7/2/08	7.90	30.8	1251	720
		7/2/08 DUP	7.90	30.8	1251	720
		1/5/09	7.36	25.7	1270	680
		4/21/09	7.49	29.6	1034	660
		4/13/10	7.57	28.4	1078	770
		4/13/10 DUP	7.57	28.4	1078	780
		4/27/11	7.59	29.1	1755	810
		5/1/12	7.56	30.6	1428	820
		4/4/13	7.58	29.3	1533	880
		4/15/14	8.08	28.1	1203	909
		4/15/14 DUP	8.08	28.1	1203	908
		4/7/15	8.06	28.1	1190	970

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-28	903648	11/14/06	NM	NM	NM	1860
		1/9/07	7.22	25.8	2690	1920
		4/17/07	6.98	26.1	1359	1920
		7/16/07	6.89	27.1	1206	1880
		1/21/08	7.39	23.9	903	1940
		4/8/08	6.99	25.5	1852	1900
		7/1/08	6.95	26.62	3322	1680
		10/6/08	6.97	26.7	3500	1910
		1/8/09	7.05	25.7	3600	1910
		4/7/09	6.84	26.4	6300	1860
		10/13/09	6.88	25.7	1589	1800
		4/15/10	7.11	25.1	1399	1900
		10/12/10	6.99	25.3	3460	1820
		5/17/11	6.94	25.6	3380	2000
		10/4/11	7.12	25.8	1390	1800
		5/21/12	6.64	28.8	3360	1600
		10/9/12	6.97	26.8	2980	1900
		4/2/13	6.95	26.9	2930	1867.1
		10/21/13	7.78	25.3	2916	2020
		4/9/14	7.81	24.4	3365	2020
		11/4/14	7.63	24.3	3270	1940
		1/7/15	7.54	24.9	3385	2020
		4/21/15	7.36	25.2	1571	1820
MH-29	903649	11/14/06	NM	NM	NM	1640
		1/9/07	7.47	25.8	2600	1660
		1/9/07	7.47	25.8	2600	1650
		4/17/07	7.01	25.1	1345	1690
		7/16/07	6.95	27.4	1177	1650
		1/18/08	7.17	23.5	1045	1710
		4/8/08	6.98	24.1	1580	1700
		7/1/08	6.99	25.95	3361	1730
		10/6/08	6.95	26.9	3300	1740
		1/9/09	7.03	25.7	9200	1730
		4/7/09	6.80	26.4	7700	1720
		4/7/09 DUP	6.80	26.4	7700	1700
		10/13/09	6.95	25.0	1421	1600
		10/13/09 DUP	6.95	25.0	1421	1700
		4/15/10	6.99	24.9	1358	1700
		10/12/10	7.04	23.9	3290	1520
		4/20/11	6.98	26.0	2950	1790
		4/20/11 DUP	6.98	26.0	2950	1770
		10/4/11	6.91	25.3	1765	1600
		5/21/12	6.62	26.6	3210	1600
		10/9/12	6.97	26.3	2710	1700
		4/2/13	7.06	24.9	2750	1707.1
		12/11/13	7.31	24.3	1645	1770
		4/9/14	7.28	23.6	3176	1800
		11/4/14	7.36	23.6	3260	1870
		1/7/15	7.36	23.7	3310	1790
		1/7/15 DUP	7.36	7.0	3310	1940
		4/21/15	7.54	25.6	1368	1700

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MH-30	903884	11/10/06	NM	NM	NM	1690
		1/9/07	7.33	26.2	2780	1760
		4/9/07	7.3	27.3	1529	1810
		7/11/07	7.18	31.9	1694	1820
		1/18/08	7.13	28.5	1147	1830
		4/8/08	7.27	27.1	1505	1830
		7/1/08	7.02	30.73	3740	1660
		10/6/08	6.95	29.8	3900	1810
		1/7/09	7.12	28	3600	1840
		4/7/09	6.81	29.5	3400	1790
		4/7/09 DUP	6.81	29.5	3400	1800
		4/15/10	6.96	28.9	1697	1480
		5/17/11	6.95	27.5	3360	1760
		5/17/11 DUP	6.95	27.5	3360	1750
		4/26/12	7.05	28.1	1618	1738
		6/6/13	7.26	29.5	2630	1760
		6/6/13 DUP	7.26	29.5	2630	1800
		4/8/14	7.20	27.7	3242	1720
		4/21/15	7.33	28.6	1574	1750
MO-2007-1A	907342	8/8/07	7.17	29.0	370	19.2
		1/24/08	7.83	24.0	370	20
		4/9/08	7.42	24.1	383	21
		7/14/08	7.41	27.9	359	16.6
		10/17/08	7.46	27.7	357	17.9
		1/16/09	7.31	22.6	365	18.1
		4/1/09	7.55	26.5	387	18.2
		7/1/09	7.64	28.5	361	16.3
		10/22/09	7.53	26.4	360	16.6
		10/22/09 DUP	7.53	26.4	360	16.6
		4/16/10	7.52	26.7	357	18.5
		10/13/10	7.51	27.5	372	16
		5/5/11	7.51	27.4	401	17.9
		10/6/11	7.79	23.4	371	16.143
		6/12/12	7.40	27.9	371	16.98
		10/24/12	7.69	25.1	368	16.5
		4/8/13	7.55	25.6	363	17.92
		10/23/13	7.72	26.2	246	16.2
		4/29/14	7.73	25.6	278	16.2
		11/12/14	7.72	25.9	303	16.1
		11/12/14 DUP	7.72	25.9	303	16.8
		4/22/15	7.76	26.7	273	18.5

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-1B	907210	8/2/07	7.41	30.7	321	18.9
		1/24/08	7.78	26.9	375	30
		4/9/08	7.70	23.1	400	35
		7/14/08	7.68	26.6	402	39.8
		10/17/08	7.56	28.1	423	54.3
		1/16/09	7.49	28.2	427	69.7
		4/1/09	7.78	26.4	511	84.1
		7/1/09	7.57	30.1	527	99
		10/22/09	7.63	28.5	600	143
		4/16/10	7.59	26.9	663	212
		10/13/10	7.46	28.7	1026	337
		10/13/10 DUP	7.46	28.7	1026	360
		5/5/11	7.42	28.6	1214	479
		10/6/11	7.84	24.8	1178	604.67
		10/6/11 DUP	7.84	24.8	1178	614.84
		6/12/12	6.99	29.0	1664	766.0
		10/24/12	7.56	26.2	1460	975.8
		4/8/13	7.57	26.5	1577	873.7
		10/23/13	8.51	26.3	971	806
		4/29/14	8.86	26.3	1522	1070
		11/12/14	8.81	26.2	1409	885
		4/22/15	8.88	26.9	1136	987
		4/22/15 DUP	8.88	26.9	1136	1000
MO-2007-1C	907209	7/31/07	7.35	27.9	523	112
		1/24/08	7.84	26.9	520	140
		4/9/08	7.57	27.3	596	149
		4/9/08 DUP	7.57	27.3	596	153
		7/14/08	7.64	31.4	608	165
		10/21/08	7.80	29.8	573	146
		1/16/09	7.17	27.5	652	233
		1/16/09 DUP	7.17	27.5	652	218
		4/1/09	7.66	27.1	700	229
		7/1/09	7.33	30.8	367	236
		7/1/09 DUP	7.33	30.8	367	227
		10/22/09	7.66	28.1	356	301
		4/16/10	7.66	28.5	730	320
		10/13/10	7.72	29.1	1004	377
		4/20/11	7.28	29.2	1009	381
		10/6/11	8.10	25.9	942	393.94
		6/12/12	7.05	29.5	1085	406.4
		10/24/12	8.40	26.5	694	239.2
		10/24/12 DUP	8.40	26.5	694	235.26
		4/8/13	7.88	26.4	1017	416.3
		10/23/13	8.47	27.9	463	132
		4/29/14	8.49	26.8	610	240
		4/29/14 DUP	8.49	26.8	610	247
		11/12/14	9.18	27.1	284	92.7
		4/22/15	8.89	26.3	229	42.4

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-2	906765	6/14/07	7.05	32.2	1372	591
		8/9/07	7.11	32.2	1271	520
		1/22/08	7.48	30.9	757	530
		4/17/08	7.32	29.8	818	473
		7/14/08	7.11	31.3	987	472
		7/14/08 DUP	7.11	31.3	987	446
		1/16/09	7.27	30.6	1200	456
		4/1/09	7.34	28.5	922	458
		4/13/10	7.17	30.3	855	439
		4/13/10 DUP	7.17	30.3	855	450
		4/27/11	7.27	28.7	1249	507
		4/27/11 DUP	7.27	28.7	1249	503
		5/2/12	7.30	31.8	1245	543.50
		4/8/13	7.34	30.1	1164	455.7
		4/9/14	8.12	30.0	608	254
		4/9/14 DUP	8.12	30.0	608	248
		4/7/15	7.56	28.1	510	255
MO-2007-3B	906816	1/21/08	7.94	26.5	353	40
		4/16/08	7.77	28.2	322	37
		7/14/08	7.70	30.2	338	37.8
		10/22/08	7.69	28.1	379	42.4
		10/22/08 DUP	7.69	28.1	379	41.6
		1/19/09	7.82	28.1	342	36.9
		1/19/09 DUP	7.82	28.1	342	36.4
		4/1/09	7.89	25.7	376	38.2
		7/27/09	7.78	28.2	353	37.2
		10/22/09	7.76	28.0	354	39.1
		1/20/10	7.97	27.6	328	37.9
		4/14/10	7.83	28.6	336	40.4
		7/21/10	7.86	27.7	372	38.7
		10/26/10	7.78	26.6	361	39.1
		1/18/11	7.83	27.3	353	38.2
		5/4/11	7.81	29.3	359	38.1
		7/6/11	7.75	30.2	362	38.3
		10/5/11	8.04	25.7	395	37.822
		11/22/11	8.00	26.1	286	36.7
		1/11/12	7.55	27.0	211	39.00
		5/8/12	7.88	30.8	329	37.64
		8/7/12	7.88	29.1	419	36.26
		10/10/12	7.94	28.1	390	37.01
		1/8/13	8.10	27.0	374	33.77
		4/9/13	8.01	25.5	329	37.54
		5/21/13	8.17	26.9	284	26.96
		8/27/13	8.59	27.8	204	3.47
		8/27/13 DUP	8.59	27.8	204	4.13
		10/24/13	8.03	26.1	279	33.8
		10/24/13 DUP	8.03	26.1	279	33.9
		1/7/14	8.11	24.6	230	2.16
		4/16/14	8.91	25.0	153	<0.5
		7/9/14	8.98	26.1	155	<0.5
		11/13/14	9.40	25.7	167	<0.5
		1/21/15	9.07	25.7	259	<0.5
		4/27/15	8.58	26.3	278	<0.5
		7/7/15	8.46	26.6	274	1.37

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-3C	906817	6/28/07	7.93	32.2	570	136
		1/21/08	8.21	27.6	507	130
		4/15/08	7.87	30.1	477	127
		7/17/08	7.98	32.7	493	126
		10/21/08	8.07	32.9	519	103
		1/19/09	8.00	30.7	490	113
		4/1/09	8.09	28.3	541	115
		7/22/09	8.07	31.4	510	107
		10/22/09	8.01	29.8	488	108
		1/20/10	8.20	26.2	469	103
		4/14/10	8.07	30.9	465	110
		7/21/10	8.05	30.4	511	101
		10/26/10	7.92	29.5	471	104
		1/18/11	8.06	29.1	492	106
		5/4/11	8.11	30.4	504	107
		7/6/11	8.02	32.5	248	101
		10/5/11	8.28	29.3	524	96.818
		1/11/12	7.92	29.4	283	104.03
		5/7/12	8.10	30.3	440	95.99
		8/7/12	7.93	30.7	553	93.25
		10/10/12	8.04	29.4	487	99.13
		1/8/13	8.09	26.5	431	62.35
		1/8/13 DUP	8.09	26.5	431	62.62
		4/9/13	8.35	28.2	432	89.78
		8/27/13	8.81	29.6	324	47.00
		10/24/13	8.43	27.4	313	79.0
		1/7/14	8.64	25.1	312	56.9
		4/16/14	9.38	26.4	259	35.6
		7/9/14	8.73	26.5	418	32.1
		11/13/14	9.33	26.6	277	20.2
		1/21/15	9.12	27.6	446	68.5
		1/21/15 DUP	9.12	27.6	446	70.3
		4/27/15	8.40	26.7	282	40.1
		7/7/15	7.60	27.7	315	35.2

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4A	907213	1/22/08	7.82	25.0	405	40
		4/16/08	7.65	25.8	372	33.1
		7/18/08	7.44	27.4	416	35.3
		10/22/08	7.58	26.9	420	40.1
		1/19/09	7.52	28	392	35.9
		4/2/09	7.85	26.8	393	36.7
		4/2/09 DUP	7.85	26.8	393	36.5
		7/1/09	7.55	26.4	395	36.3
		10/26/09	7.64	27.2	378	35.7
		1/26/10	7.66	25.7	356	36.0
		4/14/10	7.63	25.2	379	37.0
		7/21/10	7.54	26.9	420	34.9
		10/13/10	7.55	26.1	414	35.2
		1/19/11	7.61	25.8	403	35.8
		5/4/11	7.57	26.5	411	35.9
		7/6/11	7.47	27.4	417	35.3
		10/5/11	7.82	24.1	435	34.47
		1/17/12	7.54	24.5	274	37.55
		5/7/12	7.49	24.7	381	35.62
		8/13/12	7.53	26.5	378	35.33
		10/23/12	7.48	27.2	380	94.87
		2/21/13	7.53	28.6	337	33.48
		4/10/13	7.82	26.0	319	34.69
		7/10/13	7.68	25.3	347	36.60
		10/22/13	7.81	23.5	282	35.0
		1/10/14	7.73	23.7	281	35.4
		4/8/14	7.65	24.6	353	34.9
		7/8/14	7.52	24.8	465	34.6
		11/12/14	7.71	24.6	404	34.3
		1/14/15	7.71	24.8	404	34.4
		4/15/15	7.59	25.3	374	39.7
		4/15/15 DUP	7.59	25.3	374	39.1
		7/8/15	7.28	25.5	470	40.2
		7/8/15 DUP	7.28	25.5	470	40.1

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4B	907212	1/7/08	7.69	25.5	445	NA
		4/16/08	7.66	26.9	343	33.6
		7/18/08	7.57	29.2	391	34.8
		7/18/08 DUP	7.57	29.2	391	35.1
		10/22/08	7.73	30.8	407	34.7
		1/21/09	7.71	27.3	377	32.9
		4/2/09	7.93	28.3	363	34.6
		7/1/09	7.64	27.8	370	34.7
		10/26/09	7.68	28.7	348	34.5
		1/26/10	7.74	23.7	332	34.1
		4/14/10	7.76	25.1	342	35.1
		7/21/10	7.71	30.2	379	34
		7/21/10 DUP	7.71	30.2	379	34.9
		10/13/10	7.69	28.1	378	34.2
		1/19/11	7.73	26.9	367	34.6
		1/19/11 DUP	7.73	26.9	367	34.4
		5/4/11	7.72	28.1	379	34.5
		7/6/11	7.73	28.0	381	34.4
		10/5/11	8.01	27.6	401	34.194
		10/5/11 DUP	8.01	27.6	401	33.36
		1/17/12	7.81	26.7	259	33.14
		5/7/12	7.83	29.0	342	34.25
		8/13/12	7.75	28.2	353	34.02
		10/23/12	7.72	27.9	364	34.37
		2/21/13	7.75	25.7	299	32.01
		4/10/13	8.06	24.7	312	33.31
		7/10/13	8.48	25.9	200	4.51
		10/22/13	8.86	24.4	142	<0.5
		1/10/14	8.83	23.6	185	<0.5
		4/8/14	8.90	24.6	165	<0.5
		7/8/14	8.75	25.3	220	<0.5
		11/12/14	8.72	25.7	405	29.1
		1/14/15	8.30	25.8	256	16.8
		4/15/15	7.88	26.6	337	35.1
		7/8/15	7.64	25.9	297	16.6

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-4C	907211	8/16/07	7.62	35.2	472	78.7
		1/22/08	8.33	27.3	465	80
		4/16/08	8.19	29.9	420	80
		7/18/08	8.27	31.9	467	78.6
		10/22/08	8.45	31.8	467	85.9
		1/21/09	8.84	29.1	467	78.5
		4/2/09	8.48	30.3	444	81
		7/1/09	8.25	31.1	446	82.7
		10/26/09	8.22	30.5	427	83.9
		10/26/09 DUP	8.22	30.5	427	83.8
		1/26/10	8.40	30.0	409	83.2
		4/14/10	8.11	27.6	423	87.7
		7/21/10	8.23	32.4	467	85.6
		10/13/10	8.19	31.1	462	86.5
		1/19/11	8.21	28.9	447	87.6
		5/4/11	8.27	30.1	468	88.1
		7/6/11	8.17	30.8	468	85
		10/5/11	8.43	30.0	505	89.355
		1/12/12	8.52	29.5	329	92.92
		5/7/12	8.32	30.6	439	91.70
		8/13/12	8.31	28.8	451	91.22
		8/13/12 DUP	8.31	28.8	451	91.48
		10/23/12	8.86	28.5	436	94.65
		2/21/13	7.97	28.4	384	90.93
		4/10/13	8.46	29.3	362	93.24
		7/10/13	8.59	26.6	344	66.70
		10/22/13	9.51	25.6	292	63.1
		1/10/14	9.64	24.2	310	63.4
		4/8/14	9.52	26.2	344	61.8
		7/8/14	9.60	26.4	446	55.4
		11/12/14	9.36	25.8	357	52.9
		1/14/15	9.79	26.3	448	65.0
		4/15/15	8.15	27.9	388	77.3
		7/8/15	8.10	26.6	439	64.3
MO-2007-5B	907456	1/7/08	7.96	26.7	1138	NA
		4/17/08	7.94	27.7	877	390
		7/24/08	7.86	31.1	1040	343
		10/23/08	7.87	26.8	1086	412
		1/21/09	7.92	29.4	1049	400
		4/2/09	8.15	30.6	958	366
		1/25/10	7.98	28.8	1010	462
		4/27/10	7.90	29.3	987	427
		12/10/10	7.92	27.1	1215	454
		6/24/11	7.98	31.0	1199	513
		11/21/11	7.98	27.2	1249	494.3
		6/20/12	7.62	30.0	1465	519.3
		11/6/12	7.53	26.6	1420	453.9
		6/12/13	8.07	27.8	1036	430
		10/24/13	7.89	26.4	783	430
		4/29/14	8.19	27.4	1018	447
		10/15/14	8.90	26.4	924	440
		4/28/15	8.04	27.7	1330	502

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-5C	907457	8/23/07	7.46	31.4	780	248
		1/7/08	8.26	27.0	851	NA
		4/17/08	8.34	29.7	680	259
		7/24/08	8.30	31.3	746	233
		10/23/08	9.11	30.2	728	257
		1/23/09	9.30	21.1	710	222
		5/13/09	7.64	31.4	715	235
		10/27/09	7.55	30.1	651	238
		4/27/10	7.17	32.3	663	245
		4/27/10 DUP	7.17	32.3	663	248
		12/10/10	7.95	30.5	709	251
		5/24/11	7.76	29.7	682	238
		11/21/11	8.58	26.4	780	235.98
		6/18/12	8.35	30.0	816	238.89
		11/6/12	8.43	26.3	763	262.57
		6/13/13	8.88	25.8	704	251
		11/12/13	8.86	26.1	653	210
		5/6/14	8.92	26.2	565	183
		10/15/14	9.34	25.5	591	155
		4/29/15	9.25	26.9	710	167
MO-2007-6A	907607	1/22/08	7.84	26.5	380	30
		1/22/08 DUP	7.84	26.5	380	30
		4/18/08	7.61	27.2	346	20.5
		7/24/08	7.47	28.3	390	16.9
		10/23/08	7.49	25.8	388	18.6
		1/22/09	7.48	26.2	364	26.9
		4/2/09	7.88	25.5	378	23.7
		7/22/09	7.47	29.5	373	19.8
		10/26/09	7.52	27.9	349	23.5
		1/20/10	7.66	26.2	343	24.6
		4/21/10	7.59	27.3	375	34.7
		8/10/10	7.86	31.2	386	26.8
		10/26/10	7.74	28.3	381	33.9
		1/18/11	7.71	26.7	376	30.2
		5/5/11	7.59	29.0	384	29.2
		7/7/11	7.72	29.1	397	36.6
		7/7/11 DUP	7.72	29.1	397	37.1
		10/6/11	8.05	25.8	402	34.109
		1/11/12	7.47	26.8	234	43.51
		1/11/12 DUP	7.47	26.8	234	42.97
		6/12/12	7.65	28.2	389	34.98
		8/13/12	7.84	29.2	362	36.91
		10/18/12	7.77	28.8	368	30.42
		1/8/13	7.70	27.6	354	25.17
		4/9/13	8.04	28.5	329	32.44
		4/9/13 DUP	8.04	28.5	329	32.94
		7/10/13	8.20	27.9	270	18.30
		10/22/13	8.44	28.0	153	10.4
		1/6/14	8.24	36.5	330	19.3
		4/9/14	8.71	26.6	210	5.74
		7/8/14	8.15	28.3	370	10.6
		12/2/14	8.30	27.0	326	18.3
		12/2/14	8.30	27.0	326	18.3
		1/8/15	8.04	26.7	176	13.5
		4/16/15	7.89	27.0	314	19.6
		7/2/15	7.77	29.3	414	28.8
		7/2/15 DUP	7.77	29.3	414	28.6

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2007-6B	907606	1/21/08	8.13	29.8	467	80
		4/17/08	8.09	29.9	453	90.4
		7/24/08	8.00	33.8	473	81.5
		10/23/08	8.01	28.9	446	63.2
		1/22/09	7.45	29.9	443	84.5
		4/2/09	8.08	27.7	444	75.7
		7/22/09	7.86	32.7	427	63.5
		10/26/09	7.90	30.5	398	62.1
		1/20/10	8.05	27.4	406	69.7
		4/21/10	7.95	29.5	380	57.9
		4/21/10 DUP	7.95	29.5	380	57.9
		8/10/10	7.86	31.2	438	68.8
		8/10/10 DUP	7.86	31.2	438	68.6
		10/26/10	7.89	30.8	399	57.7
		1/18/11	7.85	30.4	396	58.5
		5/5/11	7.84	32.8	404	57.2
		7/7/11	7.88	32.8	405	57.5
		10/6/11	8.08	27.0	405	55.342
		1/11/12	7.57	29.9	235	57.78
		6/12/12	7.62	31.5	399	55.99
		8/13/12	7.61	32.2	374	56.54
		10/18/12	7.82	29.8	383	50.70
		1/8/13	7.68	27.2	380	37.31
		4/9/13	8.03	29.8	361	54.72
		7/10/13	8.80	28.1	306	42.00
		10/22/13	8.79	29.6	261	65.6
		10/22/13 DUP	8.79	29.6	261	66.8
		1/6/14	9.16	26.4	510	91.5
		4/9/14	9.04	27.3	310	85.7
		7/8/14	9.13	28.7	520	89.2
		12/2/14	8.88	26.6	322	82.3
		1/8/15	8.76	27.3	294	84.2
		4/16/15	9.03	26.0	303	64.3
		7/2/15	8.67	26.4	443	NS

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
MO-2009-1	910458	4/24/09	7.23	31.3	397	62.1
		7/29/09	8.18	32.9	495	97.7
		7/29/09 DUP	8.18	32.9	495	96.4
		11/3/09	8.17	29.5	513	109
		1/25/10	8.23	29.2	481	82.1
		4/20/10	8.21	30.4	467	99
		8/10/10	8.23	31.4	528	109
		12/15/10	8.29	29.0	504	95
		12/15/10 DUP	8.29	29.0	504	94
		2/2/11	8.69	26.9	432	92
		6/16/11	8.30	32.7	468	102
		8/31/11	8.33	31.1	560	108
		12/1/11	8.57	28.9	479	91.82
		1/11/12	8.18	29.9	292	93.84
		5/9/12	8.47	25.8	479	97.69
		8/15/12	8.47	32.7	454	102.4
		11/29/12	8.64	26.5	480	94.26
		1/8/13	8.79	27.0	522	98.57
		4/10/13	8.67	29.8	403	105.80
		7/11/13	8.67	27.9	450	118.00
		10/16/13	8.62	27.6	526	115
		1/6/14	9.68	24.4	451	89.3
		4/24/14	8.55	29.8	499	98.2
		7/8/14	9.25	26.8	493	81.1
		7/8/14 DUP	9.25	26.8	493	87.1
		12/2/14	8.69	27.3	353	89.8
		1/13/15	8.90	26.7	226	31.2
		4/15/15	8.44	27.3	488	104.0
		7/7/15	8.73	27.6	494	78.1

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
NP-2	624028	7/18/07	7.30	23.2	816	NA
		6/4/07	7.20	25.9	411	41.2
		8/13/07	7.16	26.0	441	41.7
		1/11/08	7.60	25.0	760	43.5
		1/11/08 DUP	7.60	25.0	760	43.8
		4/17/08	7.34	25.4	379	40
		4/17/08 DUP	7.34	25.4	379	33
		7/11/08	7.62	25.9	455	40.5
		10/6/08	7.57	25.1	405	39.7
		2/9/09	7.61	25.3	337	42.4
		4/24/09	6.89	24.6	510	32.1
		9/17/09	6.68	26.6	414	40
		12/31/09	7.60	23.6	387	40.7
		2/17/10	6.35	24.7	450	42.0
		2/17/10 DUP	6.35	24.7	450	42.0
		4/22/10	7.25	23.49	447	41.9
		8/5/10	7.67	26.0	429	41.2
		10/25/10	7.66	25.3	446	41.4
		1/19/11	7.69	25.5	402	41.9
		5/3/11	7.84	25.3	413	43.5
		7/18/11	7.72	25.8	431	44.8
		7/18/11 DUP	7.72	25.8	431	44.6
		12/5/11	8.11	23.1	396	58.63
		3/21/12	7.86	24.9	337	64.11
		6/18/12	7.83	26.9	463	64.90
		8/15/12	8.01	26.3	357	65.72
		11/29/12	8.02	24.1	396	70.13
		2/20/13	7.94	23.6	376	69.34
		6/17/13	7.96	25.6	379	71.6
		8/27/13	7.82	25.4	337	64.3
		10/30/13	7.57	24.5	264	59.6
		1/7/14	7.57	23.7	329	63.0
		4/23/14	7.80	24.7	410	55.2
		7/1/14	7.59	24.6	448	48.1
		10/13/14	7.98	25.3	370	41.1
		10/13/14 DUP	7.98	25.3	370	41.3
		1/14/15	8.08	24.8	426	42.9
PS-1	220861	2/3/14	7.21	24.7	2600	1310
		4/14/14	7.56	27.1	1461	1250
		7/9/14	6.71	27.4	2320	1270
		11/10/14	7.39	26.5	1806	1150
		1/12/15	7.72	26.6	1572	1130
		4/1/15	7.64	27.8	1268	1140
		7/15/15	7.18	26.6	2180	1180
PS-2	220862	2/3/14	7.01	25.1	1935	1080
		2/3/14 DUP	7.01	25.1	1935	1090
		4/14/14	7.62	26.6	1303	1050
		7/9/14	6.79	27.5	1934	1120
		11/10/14	7.09	26.5	1689	1020
		1/12/15	7.71	25.9	1482	1000
		4/1/15	7.62	27.8	1218	1000
		7/15/15	7.51	26.5	1894	1040

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
PS-3	220863	2/3/14	7.04	25.3	1810	975
		4/14/14	7.57	26.7	1270	996
		4/14/14 DUP	7.57	26.7	1270	997
		7/9/14	6.76	27.6	1799	1120
		11/10/14	7.26	26.5	1658	1090
		1/12/15	7.75	26.0	1457	1010
		4/1/15	7.67	29.1	1184	1010
		7/15/15	7.56	27.2	1854	1040
PS-4	220864	2/3/14	7.07	25.2	2570	1280
		4/14/14	7.48	27.6	1393	1260
		7/9/14	7.23	27.5	2330	1300
		11/10/14	7.17	26.9	1923	1260
		1/12/15	7.62	26.3	1664	1220
		4/1/15	7.64	28.2	1306	1230
		4/1/15 DUP	7.64	28.2	1306	1240
		7/15/15	6.69	27.2	2280	1240
PZ-7	561870	11/16/06	NM	NM	NM	270
		1/12/07	7.30	21.6	920	340
		4/17/07	7.13	23.8	777	360
		7/24/07	7.31	28.2	979	360
		1/7/08	7.02	19.2	1106	400
		4/28/08	7.09	27.6	699	440
		7/11/08	7.29	24.5	1173	400
		7/11/08 DUP	7.29	24.5	1173	400
		10/14/08	8.31	25.0	1300	420
		1/13/09	7.46	21.6	5200	440
		4/6/09	6.90	24.2	1100	460
		4/23/10	6.12	20.51	1400	432
		5/18/11	7.04	24.2	1463	472
		5/18/11 DUP	7.04	24.2	1463	470
		6/6/12	6.93	25.9	1458	489.1
		6/10/13	7.20	29.2	1038	500
		4/8/14	7.11	24.0	966	428
		4/21/15	7.05	22.8	822	434
PZ-8	561866	11/14/06	NM	NM	NM	470
		1/10/07	6.6	21.0	985	460
		4/11/07	7.41	19.8	1074	540
		7/12/07	7.27	27.3	935	450
		1/3/08	7.52	23.1	1045	320
		4/8/08	7.16	25.4	962	500
		7/1/08	7.15	26.49	1203	400
		10/8/08	7.22	28.2	1400	460
		1/8/09	7.05	22.3	1000	330
		4/8/09	6.54	24.1	900	280
		4/22/10	6.88	16.3	1230	305
		4/21/11	7.05	21.5	1147	364
		4/25/12	6.41	24.1	935	344.9
		6/10/13	7.35	26.7	943	380
		4/23/14	7.16	23.7	1216	480
		4/15/15	6.84	24.6	780	454

TABLE 2
Compilation of Field Parameters and Sulfate Analytical Results

Well Name	ADWR 55 Registry No.	Sample Date	pH (SU)	Temperature (deg C)	Specific Conductance (µS/cm)	Sulfate, Dissolved (mg/L)
TMM-1	616156	6/19/07	7.73	29.7	351	14.1
		8/6/07	8.04	25.2	505	<10
		1/10/08	7.77	24.2	254	<0.5
		4/18/08	7.54	25.1	268	<1
		7/9/08	7.94	27.3	296	7.3
		10/9/08	8.14	29.7	281	<0.5
		2/4/09	7.80	24.4	236	5.7
		4/21/09	7.92	26.7	281	5.5
		10/14/09	8.12	31.1	256	0.6
		4/20/10	8.08	27.0	281	12
		10/6/10	8.56	27.4	269	<0.5
		4/21/11	7.96	26.8	303	11.6
		12/21/11	7.10	20.4	1580	<0.5
		5/15/12	8.28	28.8	32.8	7.93
		11/23/12	7.64	22.8	479	<0.5
		11/23/12 DUP	7.64	22.8	479	<0.5
		6/19/13	8.41	29.9	263	1.43
		10/29/13	7.11	24.8	183	<0.5
		4/23/14	8.49	23.6	266	<0.5

Notes:
ADWR = Arizona Department of Water Resources
SU = Standard Units
deg C = degrees Celsius
µS/cm = microsiemens per centimeter
mg/L = milligrams per Liter
NA = not analyzed
NM = not measured
NS = no sample
DUP = Duplicate sample

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
1225	634394	Sierrita	3530604.962	499665.892	3000.49	Static	6/16/15	492.97	2507.52
1350	NR	Sierrita	3528649.387	499296.387	3033.25	NA	7/12/07	474.29	2558.96
							11/8/07	477.30	2555.95
							1/9/08	477.00	2556.25
							4/14/08	475.50	2557.75
							8/7/08	477.88	2555.37
							11/5/08	479.21	2554.04
							1/19/09	477.33	2555.92
							6/29/09	479.57	2553.68
							5/28/10	478.78	2554.47
							5/9/11	480.42	2552.83
							6/29/12	479.57	2553.68
							5/23/13	481.16	2552.09
							4/29/14	Obstructed	NA
							5/22/14	Obstructed	NA
							5/28/14	494.95	2538.30
						Static	6/16/15	511.79	2521.46
1759	634393	Sierrita	3531506.450	499666.525	2989.54	Static	6/16/15	484.12	2505.42
2125	514015	Sierrita	3529511.399	497813.090	3253.98	Static	6/16/15	736.98	2517.00
CC OF GV	501760	HGC	3527876.220	501635.382	2823.45	NA	1/15/07	253.15	2570.30
							4/16/07	254.20	2569.25
							7/9/07	259.79	2563.66
							1/10/08	257.26	2566.19
							7/7/08	261.09	2562.36
							11/14/08	263.13	2560.32
							2/4/09	258.48	2564.97
							4/21/09	258.79	2564.66
							4/22/10	259.51	2563.94
							5/14/13	258.20	2565.25
CW-3	627483	HGC	3523809.985	500047.663	2941.71	NA	6/6/07	265.35	2676.36
							8/10/07	267.40	2674.31
							11/6/07	269.98	2671.73
							1/11/08	264.40	2677.31
							4/17/08	266.46	2675.25
							7/11/08	270.95	2670.76
							10/6/08	271.78	2669.93
							2/9/09	267.51	2674.20
							4/24/09	269.06	2672.65
							12/31/09	272.10	2669.61
							4/22/10	271.91	2669.80
							10/25/10	273.54	2668.17
							5/2/11	272.50	2669.21
							12/5/11	274.20	2667.51
							6/26/12	259.51	2682.20
							12/13/12	278.81	2662.90
							6/13/13	283.48	2658.23
							11/12/13	286.51	2655.20
							3/12/14	286.62	2655.09
							4/29/14	289.87	2651.84
							5/6/14	289.87	2651.84
							6/23/14	289.83	2651.88
							7/28/14	296.29	2645.42
							8/7/14	297.18	2644.53
							9/8/14	298.21	2643.50
						Static[1]	10/15/14	299.49	2642.22
						Static[1]	11/26/14	300.17	2641.54
						Static[1]	12/17/14	300.75	2640.96
						Static[1]	1/29/15	301.17	2640.54
						Static[1]	2/27/15	301.40	2640.31
						Static[1]	3/18/15	301.16	2640.55
						Static[1]	4/28/15	304.04	2637.67
						Static[1]	5/11/15	303.79	2637.92
						Static[1]	6/2/15	304.11	2637.60
						Static[1]	7/24/15	307.31	2634.40
						Static[1]	8/25/15	308.58	2633.13

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
CW-6	627485	CWC	3525794.239	500891.072	2867.00	NA	12/4/06	247.50	2619.50
							1/3/07	245.00	2622.00
							5/24/07	252.25	2614.75
							7/10/07	252.15	2614.85
							10/2/07	253.05	2613.95
							1/8/08	245.81	2621.19
							4/17/08	254.20	2612.80
							7/8/08	253.80	2613.20
							10/7/08	256.30	2610.70
							2/6/09	249.27	2617.73
							4/22/09	253.15	2613.85
							9/22/09	256.80	2610.20
							11/5/09	258.10	2608.90
							2/10/10	250.76	2616.24
							5/14/10	252.78	2614.22
							7/27/10	257.35	2609.65
							10/14/10	257.22	2609.78
							2/24/11	250.38	2616.62
							4/28/11	254.32	2612.68
							7/20/11	257.20	2609.80
							12/14/11	253.57	2613.43
							1/24/12	252.33	2614.67
							5/9/12	255.74	2611.26
							8/29/12	258.30	2608.70
							12/12/12	256.33	2610.67
							2/6/13	254.67	2612.33
							5/15/13	259.27	2607.73
							7/17/13	263.01	2603.99
							10/23/13	264.66	2602.34
							1/14/14	259.78	2607.22
							4/16/14	265.79	2601.21
						Static[1]	10/13/14	279.38	2587.62
						Static[1]	1/13/15	279.20	2587.80
						Static[1]	4/14/15	284.00	2583.00
						Static[1]	7/27/15	290.59	2576.41
CW-7	502546	CWC	3528094.155	499659.842	2987.50	NA	2/2/07	425.00	2562.50
							5/14/07	424.15	2563.35
							7/10/07	426.50	2561.00
							10/2/07	427.60	2559.90
							1/8/08	427.50	2560.00
							4/17/08	426.40	2561.10
							7/8/08	428.40	2559.10
							10/7/08	429.80	2557.70
							2/6/09	426.62	2560.88
							4/22/09	424.30	2563.20
							5/14/10	438.35	2549.15
							4/28/11	429.50	2558.00
							5/9/12	425.90	2561.60
							5/15/13	458.53	2528.97
							4/16/14	440.68	2546.82
						Static	6/18/15	461.75	2525.75
CW-8	543600	CWC	3525661.191	499798.520	2957.50	NA	1/3/07	336.50	2621.00
							5/24/07	338.14	2619.36
							8/10/07	339.80	2617.70
							10/2/07	340.60	2616.90
							1/8/08	337.97	2619.53
							4/17/08	339.20	2618.30
							7/8/08	341.75	2615.75
							10/7/08	342.75	2614.75
							2/6/09	339.12	2618.38
							4/22/09	341.20	2616.30
							4/12/10	342.00	2615.50
							4/28/11	342.68	2614.82
							5/9/12	340.12	2617.38
							5/15/13	347.39	2610.11
							4/16/14	359.08	2598.42
						Static	6/18/15	384.24	2573.26

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
CW-9	588121	CWC	3528740.784	501072.040	2834.30	NA	12/4/06	306.00	2528.30
							1/3/07	304.20	2530.10
							5/24/07	309.40	2524.90
							7/10/07	310.20	2524.10
							10/2/07	310.70	2523.60
							1/8/08	308.82	2525.48
							4/17/08	308.00	2526.30
							7/8/08	315.60	2518.70
							10/7/08	316.05	2518.25
							2/6/09	309.80	2524.50
							4/22/09	311.10	2523.20
							7/30/09	316.5	2517.80
							11/5/09	321.60	2512.70
							2/10/10	316.69	2517.61
							5/14/10	316.20	2518.10
							7/27/10	313.63	2520.67
							10/14/10	318.65	2515.65
							2/24/11	309.94	2524.36
							4/28/11	313.41	2520.89
							7/20/11	315.45	2518.85
							12/14/11	314.17	2520.13
							1/24/12	312.56	2521.74
							5/9/12	314.39	2519.91
							8/29/12	318.12	2516.18
							12/12/12	317.48	2516.82
							2/6/13	313.90	2520.40
							5/15/13	313.79	2520.51
							7/17/13	316.52	2517.78
							10/23/13	319.19	2515.11
							1/14/14	319.38	2514.92
							4/16/14	317.82	2516.48
						Static[1]	10/13/14	330.96	2503.34
						Static[1]	1/13/15	328.35	2505.95
						Static[1]	4/14/15	331.47	2502.83
						Static[1]	7/27/15	338.28	2496.02
CW-10	207982	CWC	3523455.502	500913.364	2868.50	NA	12/4/06	178.25	2690.25
							1/3/07	177.20	2691.30
							5/24/07	196.30	2672.20
							7/10/07	198.79	2669.71
							10/2/07	190.85	2677.65
							1/8/08	180.95	2687.55
							4/17/08	187.95	2680.55
							7/8/08	203.25	2665.25
							10/7/08	190.65	2677.85
							2/6/09	184.40	2684.10
							4/22/09	191.12	2677.38
							7/30/09	197.3	2671.20
							11/5/09	199.10	2669.40
							2/10/10	186.00	2682.50
							5/14/10	190.10	2678.40
							7/27/10	198.52	2669.98
							10/14/10	195.31	2673.19
							2/24/11	191.62	2676.88
							4/28/11	196.15	2672.35
							7/20/11	199.75	2668.75
							12/14/11	191.70	2676.80
							1/24/12	189.73	2678.77
							5/9/12	197.20	2671.30
							8/29/12	201.50	2667.00
							12/12/12	199.93	2668.57
							2/6/13	197.87	2670.63
							5/15/13	209.50	2659.00
							7/17/13	212.61	2655.89
							10/23/13	215.14	2653.36
							1/14/14	203.86	2664.64
							4/16/14	210.15	2658.35
							7/22/14	220.59	2647.91
						Static[1]	10/13/14	223.99	2644.51
						Static[1]	1/13/15	216.94	2651.56
						Static[1]	4/14/15	230.95	2637.55
						Static[1]	7/27/15	236.30	2632.20
CW-11	608518	Sierrita	3531004.624	502441.590	2778.61	Dynamic	6/18/15	318.58	2460.03

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
ESP-1	623102	Sierrita	3526448.677	499969.682	2953.43	NA	11/28/06	352.20	2601.23
							1/3/07	350.10	2603.33
							5/24/07	349.55	2603.88
							7/10/07	351.11	2602.32
							10/12/07	343.00	2610.43
							10/30/08	355.47	2597.96
							1/29/09	354	2599.43
							4/16/09	350.50	2602.93
							11/10/09	355.67	2597.76
							4/28/10	354.10	2599.33
							10/15/10	357.40	2596.03
							5/3/11	355.79	2597.64
							11/22/11	357.82	2595.61
							12/13/11	355.60	2597.83
							6/19/12	357.76	2595.67
							11/21/12	358.70	2594.73
							5/20/13	357.15	2596.28
							4/28/14	Obstructed	NA
ESP-2	623103	Sierrita	3526924.656	500241.637	2934.60	NA	11/28/06	342.55	2592.05
							1/3/07	343.10	2591.50
							5/14/07	339.90	2594.70
							7/10/07	341.25	2593.35
							10/12/07	342.26	2592.34
							1/23/08	340.40	2594.20
							4/18/08	340.93	2593.67
							7/25/08	342.30	2592.30
							10/30/08	344.82	2589.78
							1/29/09	395.16	2539.44
							4/16/09	341.45	2593.15
							11/10/09	346.50	2588.10
							4/28/10	343.99	2590.61
							10/15/10	347.33	2587.27
							5/3/11	345.44	2589.16
							11/22/11	347.26	2587.34
							6/19/12	346.84	2587.76
							11/21/12	348.11	2586.49
							5/20/13	348.45	2586.15
							11/5/13	362.28	2572.32
							3/12/14	354.98	2579.62
							4/28/14	358.88	2575.72
							5/6/14	358.90	2575.70
							6/23/14	358.86	2575.74
							7/28/14	365.59	2569.01
							8/8/14	367.53	2567.07
							9/9/14	368.29	2566.31
						Static	10/1/14	369.45	2565.15
						Static	11/26/14	369.90	2564.70
						Static	12/17/14	370.22	2564.38
						Static	1/29/15	370.43	2564.17
						Static	2/27/15	370.56	2564.04
						Static	3/26/15	376.27	2558.33
						Static	4/29/15	377.94	2556.66
						Static	5/12/15	378.70	2555.90
						Static	6/21/15	379.41	2555.19
						Static	7/24/15	382.81	2551.79
						Static	8/14/15	384.60	2550.00
ESP-3	623104	Sierrita	3527377.239	500234.067	2935.80	NA	11/28/06	360.40	2575.40
							1/3/07	358.60	2577.20
							5/14/07	355.85	2579.95
							7/1/07	358.05	2577.75
							10/30/08	361.12	2574.68
							1/29/09	410.05	2525.75
							4/16/09	353.20	2582.60
							11/12/09	363.37	2572.43
							4/28/10	361.69	2574.11
							10/15/10	365.00	2570.80
							5/3/11	363.35	2572.45
							11/22/11	364.91	2570.89
							6/19/12	364.50	2571.30
							11/21/12	357.92	2577.88
							5/22/13	356.23	2579.57
							11/5/13	367.84	2567.96
							4/28/14	374.61	2561.19
						Static	10/1/14	375.53	2560.27
						Static	5/12/15	393.85	2541.95

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
ESP-4	623105	Sierrita	3526132.758	499916.830	2958.60	NA	11/28/06	349.20	2609.40
							1/12/07	348.30	2610.30
							5/4/07	346.90	2611.70
							7/24/07	348.80	2609.80
							10/12/07	352.41	2606.19
							1/23/08	349.65	2608.95
							4/18/08	350.39	2608.21
							7/25/08	352.13	2606.47
							10/30/08	355.42	2603.18
							1/29/09	352.50	2606.10
							4/16/09	356.87	2601.73
							10/23/09	355.64	2602.96
							4/28/10	351.56	2607.04
							10/15/10	358.16	2600.44
							5/3/11	355.65	2602.95
							11/22/11	356.91	2601.69
							11/12/12	358.92	2599.68
							5/20/13	363.95	2594.65
							11/5/13	362.37	2596.23
							4/28/14	372.14	2586.46
						Static	10/1/14	383.76	2574.84
						Static	5/12/15	393.63	2564.97
ESP-5	623106	Sierrita	3527082.232	502007.895	2820.00	NA	2/12/07	219.50	2600.50
							5/4/07	217.75	2602.25
							7/3/07	224.60	2595.40
							11/8/07	228.42	2591.58
							1/28/08	222.00	2598.00
							4/22/08	220.08	2599.92
							8/7/08	225.88	2594.12
							11/3/08	228.92	2591.08
							2/17/09	221.89	2598.11
							6/2/09	224.10	2595.90
							4/28/10	223.28	2596.72
							5/3/11	224.15	2595.85
							6/19/12	229.73	2590.27
							5/20/13	230.08	2589.92
							4/29/14	232.72	2587.28
						Static	6/17/15	241.10	2578.90
FFS-1	221662	Sierrita	3524075.673	498327.36	3071.404	NA	1/15/14	438.94	2632.46
							1/22/14	439.09	2632.31
							1/29/14	379.85	2691.55
							3/13/14	446.91	2624.49
							5/14/14	453.40	2618.00
							6/5/14	457.50	2613.90
							7/6/14	455.90	2615.50
							7/31/14	457.00	2614.40
							8/27/14	457.80	2613.60
						Dynamic	10/1/14	428.40	2643.00
						Dynamic	11/4/14	462.50	2608.90
						Dynamic	12/2/14	464.00	2607.40
						Dynamic	1/4/15	464.60	2606.80
						Dynamic	3/3/15	465.70	2605.70
						Static	4/9/15	432.05	2639.35
						Static	5/2/15	431.60	2639.80
						Static	6/11/15	431.55	2639.85
						Dynamic	7/6/15	467.05	2604.35
						Dynamic	8/18/15	470.50	2600.90

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
FFS-2	221663	Sierrita	3524527.902	498316.081	3082.106	NA	1/15/14	459.42	2622.69
							1/22/14	460.08	2622.03
							1/29/14	462.21	2619.90
							3/13/14	468.92	2613.19
							5/13/14	444.00	2638.11
							6/5/14	476.75	2605.36
							7/6/14	479.70	2602.41
							7/31/14	480.80	2601.31
							8/27/14	482.20	2599.91
						Dynamic	10/1/14	453.20	2628.91
						Dynamic	11/4/14	487.37	2594.74
						Dynamic	12/2/14	489.05	2593.06
						Dynamic	1/4/15	489.95	2592.16
						Dynamic	3/3/15	491.92	2590.19
						Dynamic	4/9/15	491.90	2590.21
						Dynamic	5/2/15	492.10	2590.01
						Dynamic	6/11/15	491.50	2590.61
						Dynamic	7/6/15	493.90	2588.21
						Dynamic	8/18/15	496.50	2585.61
FFS-3	221664	Sierrita	3525294.908	498356.883	3083.898	NA	1/15/14	497.29	2586.61
							1/22/14	497.31	2586.59
							1/29/14	497.98	2585.92
							3/13/14	502.16	2581.74
							5/14/14	508.87	2575.03
							6/9/14	509.68	2574.22
							7/6/14	511.70	2572.20
							7/31/14	513.10	2570.80
							8/27/14	514.25	2569.65
						Dynamic	10/1/14	497.80	2586.10
						Dynamic	11/4/14	519.50	2564.40
						Dynamic	12/2/14	521.35	2562.55
						Dynamic	1/4/15	523.10	2560.80
						Dynamic	2/4/15	522.10	2561.80
						Dynamic	3/3/15	524.05	2559.85
						Dynamic	4/9/15	525.40	2558.50
						Dynamic	5/2/15	526.95	2556.95
						Static	6/11/15	509.50	2574.40
						Dynamic	7/6/15	529.40	2554.50
						Dynamic	8/18/15	530.00	2553.90
FFS-4	221665	Sierrita	3525934.456	498354.148	3097.921	NA	1/15/14	548.14	2549.78
							1/22/14	550.75	2547.17
							1/29/14	552.10	2545.82
							3/13/14	559.71	2538.21
							5/14/14	570.41	2527.51
							6/9/14	572.45	2525.47
							7/6/14	576.05	2521.87
							7/31/14	578.25	2519.67
							8/27/14	580.50	2517.42
						Dynamic	10/1/14	529.75	2568.17
						Dynamic	11/4/14	595.40	2502.52
						Dynamic	12/2/14	602.10	2495.82
						Dynamic	1/4/15	608.90	2489.02
						Dynamic	3/3/15	622.65	2475.27
						Dynamic	4/9/15	661.30	2436.62
						Dynamic	5/2/15	668.25	2429.67
						Static	6/11/15	541.42	2556.50
						Static	7/6/15	541.73	2556.19
						Dynamic	8/18/15	696.60	2401.32

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
FFS-5	221666	Sierrita	3526692.605	498345.757	3107.731	NA	3/13/14	Obstructed	NA
							5/13/14	554.32	2553.41
							5/15/14	554.32	2553.41
							5/22/14	563.67	2544.06
							6/9/14	565.20	2542.53
							7/6/14	568.80	2538.93
							7/31/14	568.60	2539.13
							8/27/14	569.80	2537.93
						Dynamic	10/1/14	554.18	2553.55
						Dynamic	11/4/14	575.55	2532.18
						Dynamic	12/2/14	577.65	2530.08
						Dynamic	1/4/15	579.20	2528.53
						Dynamic	3/3/15	581.00	2526.73
						Dynamic	4/9/15	582.55	2525.18
						Dynamic	5/2/15	584.00	2523.73
						Static	6/11/15	567.15	2540.58
						Static	7/6/15	566.90	2540.83
						Dynamic	8/18/15	588.00	2519.73
FFS-6	221667	Sierrita	3527286.712	498329.774	3110.44	NA	1/15/14	539.28	2571.16
							1/22/14	552.04	2558.40
							1/29/14	547.78	2562.66
							3/15/14	559.21	2551.23
							5/13/14	566.06	2544.38
							6/9/14	567.10	2543.34
							7/6/14	569.00	2541.44
							7/31/14	571.10	2539.34
							8/27/14	572.90	2537.54
						Dynamic	10/1/14	564.20	2546.24
						Dynamic	11/4/14	577.80	2532.64
						Dynamic	12/2/14	579.58	2530.86
						Dynamic	1/4/15	581.40	2529.04
						Dynamic	2/4/15	582.15	2528.29
						Dynamic	3/3/15	583.40	2527.04
						Dynamic	4/9/15	584.75	2525.69
						Dynamic	5/2/15	585.70	2524.74
						Dynamic	7/6/15	587.75	2522.69
						Dynamic	8/18/15	588.94	2521.50
FICO C-4	624010	Sierrita	3525383.746	501759.635	2836.19	Dynamic	6/19/15	262.70	2573.49
FICO E-6	624013	Sierrita	3525168.902	502425.070	2841.16	Dynamic	6/19/15	259.31	2581.85
GV-01-GVDWID	603428	GVDWID	3522254.157	499812.869	2942.35	NA	1/9/07	221.00	2721.35
							4/10/07	218.11	2724.24
							8/6/07	231.00	2711.35
							1/7/08	221.50	2720.85
							4/16/08	225.50	2716.85
							7/7/08	231.00	2711.35
							11/25/08	228.00	2714.35
							3/3/09	220.50	2721.85
							7/29/09	201.9	2740.45
							11/4/09	232.80	2709.55
							1/27/10	224.80	2717.55
							4/1/10	227.12	2715.23
							10/14/10	233.00	2709.35
							3/18/11	224.00	2718.35
							4/28/11	231.00	2711.35
							12/7/11	233.20	2709.15
							3/14/12	234.25	2708.10
							6/7/12	242.28	2700.07
							8/29/12	231.00	2711.35
							11/15/12	239.00	2703.35
							1/29/13	238.61	2703.74
							5/16/13	254.09	2688.26
							7/11/13	248.19	2694.16
							7/21/14	229.00	2713.35
						Static[1]	10/14/14	257.60	2684.75
						Static[1]	1/12/15	255.60	2686.75
						Static[1]	7/22/15	261.03	2681.32
GV-01-PCWW	509603	Pima County	3529924.983	502867.776	2780	Static	4/2/15	176.50	2603.50

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
GV-02-GVDWID	603429	GVDWID	3521654.457	499786.207	2930.47	NA	1/9/07	185.30	2745.17
							4/10/07	187.10	2743.37
							7/11/07	200.45	2730.02
							10/3/07	199.33	2731.14
							1/7/08	190.62	2739.85
							4/16/08	194.95	2735.52
							7/7/08	201.05	2729.42
							11/25/08	199.58	2730.89
							2/4/09	192.88	2737.59
							7/29/09	231.9	2698.57
							11/4/09	203.50	2726.97
							1/27/10	195.15	2735.32
							4/1/10	197.10	2733.37
							7/28/10	202.76	2727.71
							10/14/10	204.55	2725.92
							1/20/11	198.88	2731.59
							4/28/11	204.77	2725.70
							7/20/11	206.14	2724.33
							12/7/11	204.43	2726.04
							3/14/12	204.35	2726.12
							6/7/12	211.76	2718.71
							8/29/12	219.00	2711.47
							11/15/12	214.51	2715.96
							1/29/13	209.49	2720.98
							5/16/13	219.48	2710.99
							7/11/13	220.75	2709.72
							1/10/14	221.29	2709.18
						Static[1]	10/14/14	229.70	2700.77
						Static[1]	1/12/15	221.90	2708.57
						Static[1]	4/15/15	223.10	2707.37
GV-02-PCWW	509604	Pima County	3530219.769	502678.593	2775		4/2/15	164.30	2610.70
GV-SI-GVDWID	208825	HGC	3519509.930	497227.175	3042.65	Static	01/09/07	237.50	2805.15
							04/10/07	238.55	2804.10
							08/06/07	240.31	2802.34
							10/03/07	244.40	2798.25
							01/07/08	237.75	2804.90
							04/16/08	247.55	2795.10
							8/14/08	245.50	2797.15
							11/6/08	246.00	2796.65
							2/4/09	247.46	2795.19
							4/1/10	247.60	2795.05
							4/28/11	257.00	2785.65
							6/20/12	257.92	2784.73
							5/16/13	267.53	2775.12
							4/15/15	274.38	2768.27
HAVEN GOLF	515867	ADWR	3526386.000	501651.000	ND	NA	5/29/12	220.00	--
I-10	608525	Sierrita	325607.430	977264.441	3210.58	Static	1/15/07	655.89	2554.69
							4/16/07	630.00	2580.58
							7/10/07	656.00	2554.58
							1/8/08	659.58	2551.00
							4/14/08	658.80	2551.78
							7/21/08	657.10	2553.48
							10/24/08	660.82	2549.76
							5/12/09	660.80	2549.78
							6/15/12	662.39	2548.19
							6/11/13	661.26	2549.32
							4/30/14	668.91	2541.67
							5/14/15	687.57	2523.01

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-1	623129	Sierrita	3521277.779	496905.892	3144.69	NA	12/16/06	360.95	2783.74
							2/24/07	386.70	2757.99
							10/19/07	399.90	2744.79
							1/29/08	400.45	2744.24
							5/7/08	398.90	2745.79
							7/29/08	405.85	2738.84
							10/24/08	404.80	2739.89
							1/21/09	400	2744.69
							5/13/09	370.50	2774.19
							4/12/10	394.45	2750.24
							5/11/11	392.80	2751.89
							5/21/12	438.48	2706.21
							4/15/13	439.81	2704.88
							1/28/14	461.65	2683.04
							2/24/14	392.49	2752.20
							3/25/14	393.89	2750.80
							4/25/14	Obstructed	NA
							5/30/14	Obstructed	NA
							6/5/14	445.60	2699.09
							7/6/14	387.90	2756.79
							7/31/14	441.90	2702.79
							8/27/14	383.00	2761.69
						Dynamic	10/1/14	445.50	2699.19
						Dynamic	11/4/14	443.90	2700.79
						Dynamic	12/2/14	446.60	2698.09
						Dynamic	4/9/15	443.90	2700.79
						Static	5/2/15	382.95	2761.74
						Dynamic	6/11/15	442.50	2702.19
						Dynamic	7/8/15	442.15	2702.54
IW-2	623130	Sierrita	497546.637	497546.637	3098.29	NA	12/16/06	404.30	2693.99
							2/24/07	406.80	2691.49
							5/4/07	344.00	2754.29
							7/31/07	381.00	2717.29
IW-2A	216464	Sierrita	3521337.953	497469.228	3112.28	NA	4/25/08	412.90	2699.38
							5/13/09	358.80	2753.48
							4/12/10	410.18	2702.10
							5/11/11	394.91	2717.37
							5/21/12	404.32	2707.96
							4/15/13	370.91	2741.37
							1/28/14	439.64	2672.64
							2/24/14	384.22	2728.06
							3/25/14	440.29	2671.99
							4/25/14	384.28	2728.00
							5/30/14	440.37	2671.91
							6/9/14	429.35	2682.93
							7/6/14	379.90	2732.38
							7/31/14	423.50	2688.78
							8/27/14	377.70	2734.58
						Dynamic	10/1/14	377.60	2734.68
						Dynamic	11/4/14	420.10	2692.18
						Dynamic	12/2/14	422.20	2690.08
						Dynamic	4/9/15	412.00	2700.28
						Dynamic	5/2/15	413.80	2698.48
						Dynamic	6/11/15	410.00	2702.28
						Dynamic	7/8/15	412.50	2699.78

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-3A	201732	Sierrita	3521722.640	497366.220	3121.45	NA	12/5/06	431.80	2689.65
							7/31/07	381.50	2739.95
							10/19/07	427.80	2693.65
							1/29/08	425.60	2695.85
							4/25/08	421.30	2700.15
							7/29/08	420.90	2700.55
							10/24/08	141.50	2979.95
							4/12/10	420.23	2701.22
							5/11/11	413.40	2708.05
							6/20/12	401.37	2720.08
							5/14/13	449.56	2671.89
							1/28/14	455.66	2665.79
							2/24/14	408.59	2712.86
							3/25/14	454.96	2666.49
							4/25/14	403.99	2717.46
							5/30/14	454.72	2666.73
							6/9/14	446.10	2675.35
							7/6/14	398.60	2722.85
							7/31/14	441.40	2680.05
							8/27/14	394.90	2726.55
						Dynamic	10/1/14	451.05	2670.40
						Dynamic	11/4/14	442.75	2678.70
						Dynamic	12/2/14	446.10	2675.35
						Dynamic	4/9/15	440.60	2680.85
						Dynamic	5/2/15	444.80	2676.65
						Dynamic	6/11/15	441.00	2680.45
						Dynamic	7/8/15	444.20	2677.25
IW-4	623132	Sierrita	3522465.879	497371.700	3137.06	NA	2/24/07	417.70	2719.36
							7/21/07	425.30	2711.76
							10/19/07	428.90	2708.16
							1/19/08	433.70	2703.36
							4/21/08	441.90	2695.16
							7/29/08	409.22	2727.84
							10/24/08	452.10	2684.96
							1/21/09	453	2684.06
							5/13/09	383.20	2753.86
							4/12/10	420.70	2716.36
							5/11/11	414.25	2722.81
							5/21/12	402.19	2734.87
							4/15/13	402.34	2734.72
							1/28/14	410.69	2726.37
							2/24/14	393.32	2743.74
							3/25/14	410.27	2726.79
							4/25/14	390.98	2746.08
							5/30/14	410.30	2726.76
							6/9/14	408.10	2728.96
							7/6/14	388.15	2748.91
							7/31/14	427.20	2709.86
							8/27/14	388.20	2748.86
						Dynamic	10/1/14	Insufficient Flow	NA
						Dynamic	11/4/14	426.05	2711.01
						Dynamic	12/2/14	424.10	2712.96
						Static	4/9/15	385.05	2752.01
						Static	5/2/15	388.90	2748.16
						Dynamic	6/11/15	422.10	2714.96
						Static	7/8/15	390.88	2746.18
IW-5	623133	Sierrita	3522814.850	497369.528	3137.65	NA	5/13/09	375.90	2761.75
							4/12/10	430.60	2707.05

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-5A	219131	Sierrita			3091.47	NA	5/22/12	468.65	2622.82
							4/15/13	514.20	2577.27
							1/29/14	531.51	2559.96
							2/24/14	390.02	2701.45
							3/24/14	Obstructed	NA
							4/25/14	389.58	2701.89
							5/30/14	511.90	2579.57
							6/9/14	621.00	2470.47
							7/6/14	387.80	2703.67
							7/31/14	387.30	2704.17
							8/27/14	386.30	2705.17
						Static	10/1/14	386.75	2704.72
						Static	11/4/14	389.10	2702.37
						Static	12/2/14	389.80	2701.67
						Static	4/9/15	388.75	2702.72
						Static	5/2/15	390.00	2701.47
						Static	6/11/15	390.05	2701.42
						Static	7/8/15	391.80	2699.67
IW-6A	545565	Sierrita	3523708.756	497381.226	3132.26	NA	11/15/06	425.00	2707.26
							2/24/07	433.60	2698.66
							7/31/07	432.28	2699.98
							10/17/07	433.35	2698.91
							1/29/08	416.90	2715.36
							4/22/08	415.45	2716.81
							7/29/08	416.82	2715.44
							10/24/08	419.33	2712.93
							1/29/09	418	2714.26
							5/13/09	387.30	2744.96
							4/12/10	384.70	2747.56
							5/11/11	410.61	2721.65
							5/22/12	419.75	2712.51
							4/15/13	433.21	2699.05
							1/28/14	435.59	2696.67
							2/24/14	407.02	2725.24
							3/24/14	432.16	2700.10
							4/25/14	408.39	2723.87
							5/30/14	431.90	2700.36
							6/9/14	435.40	2696.86
							7/7/14	435.40	2696.86
							7/31/14	438.80	2693.46
							8/27/14	403.40	2728.86
						Dynamic	10/1/14	435.70	2696.56
						Dynamic	11/4/14	436.00	2696.26
						Dynamic	12/2/14	436.00	2696.26
						Static	4/9/15	404.30	2727.96
						Static	5/2/15	403.80	2728.46
						Static	6/11/15	403.80	2728.46
						Static	7/18/15	407.30	2724.96

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-8	508236	Sierrita	3522020.520	497368.253	3122.19	NA	2/24/07	434.05	2688.14
							7/31/07	438.75	2683.44
							10/19/07	436.80	2685.39
							1/29/08	437.25	2684.94
							4/25/08	436.70	2685.49
							7/29/08	437.00	2685.19
							10/24/08	436.92	2685.27
							1/21/09	439	2683.19
							5/13/09	377.80	2744.39
							4/12/10	438.36	2683.83
							5/11/11	430.52	2691.67
							5/21/12	438.67	2683.52
							5/14/13	379.15	2743.04
							1/28/14	466.20	2655.99
							2/24/14	400.57	2721.62
							3/25/14	392.79	2729.40
							4/25/14	Obstructed	NA
							5/30/14	Obstructed	NA
							6/9/14	Obstructed	NA
							7/6/14	391.10	2731.09
							7/31/14	459.90	2662.29
							8/27/14	389.20	2732.99
						Dynamic	10/1/14	452.30	2669.89
						Dynamic	11/4/14	446.40	2675.79
						Dynamic	12/2/14	449.00	2673.19
						Dynamic	4/9/15	443.55	2678.64
						Dynamic	5/2/15	446.95	2675.24
						Dynamic	6/11/15	444.60	2677.59
						Dynamic	7/8/15	447.78	2674.41
IW-9	508238	Sierrita	3522207.639	497369.791	3102.94	NA	11/15/06	402.72	2700.22
							2/24/07	405.95	2696.99
							7/21/07	405.68	2697.26
							10/19/07	379.00	2723.94
							1/19/08	491.10	2611.84
							4/21/08	480.80	2622.14
							7/29/08	473.00	2629.94
							10/24/08	475.03	2627.91
							1/21/09	469	2633.94
							5/13/09	357.20	2745.74
							4/12/10	426.67	2676.27
							5/26/11	503.43	2599.51
							5/21/12	518.95	2583.99
							4/15/13	502.13	2600.81
							1/28/14	483.69	2619.25
							2/24/14	373.42	2729.52
							3/25/14	455.68	2647.26
							4/25/14	366.85	2736.09
							5/30/14	367.02	2735.92
							6/9/14	425.70	2677.24
							7/6/14	364.20	2738.74
							7/31/14	420.70	2682.24
							8/27/14	362.50	2740.44
						Static	10/1/14	363.03	2739.91
						Static	11/4/14	360.80	2742.14
						Static	12/2/14	362.40	2740.54
						Static	4/9/15	363.90	2739.04
						Static	5/2/15	365.45	2737.49
						Static	6/11/15	365.65	2737.29
						Static	7/8/15	367.75	2735.19

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-10	508237	Sierrita	3523122.199	497370.367	3129.64	NA	11/15/06	464.05	2665.59
							2/24/07	463.40	2666.24
							7/21/07	464.22	2665.42
							10/18/07	465.25	2664.39
							1/19/08	465.75	2663.89
							4/21/08	463.29	2666.35
							7/29/08	466.11	2663.53
							10/24/08	468.33	2661.31
							1/21/09	465	2664.64
							5/13/09	391.20	2738.44
							4/12/10	463.16	2666.48
							5/11/11	456.68	2672.96
							5/22/12	466.57	2663.07
							4/15/13	405.06	2724.58
							1/29/14	487.15	2642.49
							2/24/14	416.79	2712.85
							3/24/14	485.73	2643.91
							4/25/14	415.32	2714.32
							5/30/14	485.78	2643.86
							6/9/14	480.10	2649.54
							7/6/14	478.30	2651.34
							7/31/14	472.30	2657.34
							8/27/14	Insufficient Flow	NA
						Dynamic	10/1/14	Obstructed	NA
						Dynamic	11/4/14	Obstructed	NA
						Dynamic	12/2/14	Obstructed	NA
						Dynamic	4/9/15	Obstructed	NA
						Dynamic	5/2/15	Obstructed	NA
						Dynamic	6/11/15	Obstructed	NA
						Dynamic	7/8/15	Obstructed	NA
IW-11	508235	Sierrita	3523428.954	497371.414	3127.20	NA	11/21/06	429.25	2697.95
							2/24/07	428.05	2699.15
							7/31/07	428.50	2698.70
							10/17/07	430.00	2697.20
							1/29/08	430.00	2697.20
							4/22/08	428.00	2699.20
							7/29/08	430.90	2696.30
							10/24/08	433.01	2694.19
							1/21/09	429	2698.20
							5/13/09	379.70	2747.50
							4/12/10	421.14	2706.06
							5/11/11	414.21	2712.99
							5/22/12	439.67	2687.53
							4/15/13	463.19	2664.01
							1/29/14	472.74	2654.46
							2/25/14	404.71	2722.49
							3/24/14	473.94	2653.26
							4/28/14	403.28	2723.92
							5/30/14	Obstructed	NA
							6/9/14	398.70	2728.50
							7/7/14	370.70	2756.50
							7/31/14	360.70	2766.50
							8/27/14	338.50	2788.70
						Static	10/1/14	339.20	2788.00
						Dynamic	11/4/14	Obstructed	NA
						Static	12/2/14	Obstructed	NA
						Dynamic	4/9/15	Obstructed	NA
						Static	5/2/15	394.40	2732.80
						Dynamic	6/11/15	503.10	2624.10
						Static	7/18/15	405.75	2721.45

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-12	545555	Sierrita	3523969.869	497364.911	3138.18	NA	2/24/07	456.20	2681.98
							7/21/07	428.78	2709.40
							10/17/07	433.00	2705.18
							7/29/08	425.90	2712.28
							10/24/08	425.90	2712.28
							1/29/09	427	2711.18
							5/13/09	375.80	2762.38
							4/12/10	425.40	2712.78
							5/11/11	415.81	2722.37
							5/22/12	411.45	2726.73
							5/14/13	420.22	2717.96
							1/28/14	381.41	2756.77
							2/24/14	380.19	2757.99
							3/24/14	380.01	2758.17
							4/28/14	386.78	2751.40
							5/30/14	434.66	2703.52
							6/9/14	500.10	2638.08
							7/7/14	490.40	2647.78
							7/31/14	478.50	2659.68
							8/27/14	386.40	2751.78
						Dynamic	10/1/14	486.30	2651.88
						Dynamic	11/4/14	475.70	2662.48
						Dynamic	12/2/14	475.95	2662.23
						Dynamic	4/9/15	458.20	2679.98
						Dynamic	5/2/15	484.20	2653.98
						Dynamic	6/11/15	448.60	2689.58
						Dynamic	7/18/15	456.50	2681.68
IW-13	545556	Sierrita	3524166.673	497363.820	3143.35	NA	7/31/07	412.13	2731.22
							10/17/07	413.30	2730.05
							1/29/08	412.21	2731.14
							4/22/08	410.42	2732.93
							7/29/08	410.00	2733.35
							10/24/08	410.95	2732.40
							1/29/09	411	2732.35
							5/13/09	388.90	2754.45
							4/12/10	404.66	2738.69
							5/11/11	401.85	2741.50
							6/20/12	405.53	2737.82
							4/15/13	410.89	2732.46
							1/28/14	432.93	2710.42
							2/25/14	401.88	2741.47
							3/24/14	438.75	2704.60
							4/25/14	403.78	2739.57
							5/30/14	438.80	2704.55
							6/9/14	416.40	2726.95
							7/7/14	405.70	2737.65
							7/31/14	405.70	2737.65
							8/27/14	404.30	2739.05
						Static	10/1/14	459.50	2683.85
						Static	10/1/14	406.90	2736.45
						Static	11/4/14	404.20	2739.15
						Static	12/2/14	402.80	2740.55
						Static	4/9/15	398.70	2744.65
						Static	5/2/15	399.20	2744.15
						Static	6/11/15	398.80	2744.55
						Static	7/18/15	400.65	2742.70

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-14	545557	Sierrita	3526924.656	497367.126	3146.42	NA	11/15/06	471.68	2674.74
							2/24/07	463.35	2683.07
							7/31/07	474.00	2672.42
							10/16/07	480.00	2666.42
							1/29/08	478.50	2667.92
							4/21/08	457.75	2688.67
							7/29/08	478.06	2668.36
							10/24/08	467.07	2679.35
							1/29/09	466	2680.42
							5/13/09	383.30	2763.12
							4/21/10	422.20	2724.22
							5/11/11	404.48	2741.94
							5/22/12	458.57	2687.85
							4/15/13	460.72	2685.70
							1/28/14	459.02	2687.40
							2/25/14	393.02	2753.40
							3/24/14	455.21	2691.21
							4/28/14	394.49	2751.93
							5/30/14	453.19	2693.23
							6/9/14	459.40	2687.02
							7/7/14	459.30	2687.12
							7/31/14	459.30	2687.12
							8/27/14	394.60	2751.82
						Dynamic	11/4/14	459.40	2687.02
						Dynamic	12/2/14	459.40	2687.02
						Dynamic	4/9/15	459.50	2686.92
						Dynamic	5/2/15	459.50	2686.92
						Static	6/11/15	400.05	2746.37
						Dynamic	7/18/15	460.10	2686.32
IW-15	545558	Sierrita	3526924.656	497372.873	3152.02	NA	11/15/06	427.27	2724.75
							2/24/07	429.89	2722.13
							7/31/07	430.55	2721.47
							10/16/07	390.30	2761.72
							1/29/08	430.45	2721.57
							4/22/08	429.70	2722.32
							7/29/08	429.50	2722.52
							10/24/08	430.49	2721.53
							1/29/09	430	2722.02
							5/13/09	388.00	2764.02
							4/12/10	419.39	2732.63
							5/11/11	414.82	2737.20
							5/22/12	410.54	2741.48
							5/14/13	439.64	2712.38
							1/28/14	458.15	2693.87
							2/25/14	397.32	2754.70
							3/24/14	477.16	2674.86
							4/28/14	399.11	2752.91
							5/30/14	477.18	2674.84
							6/9/14	491.25	2660.77
							7/7/14	399.40	2752.62
							7/31/14	491.30	2660.72
							8/27/14	400.60	2751.42
						Dynamic	10/1/14	491.40	2660.62
						Dynamic	11/4/14	491.40	2660.62
						Dynamic	12/2/14	491.40	2660.62
						Dynamic	4/9/15	491.40	2660.62
						Static	5/2/15	401.70	2750.32
						Static	6/11/15	408.20	2743.82

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-16	545559	Sierrita	3526924.656	497370.651	3162.85	NA	11/15/06	409.69	2753.16
							2/24/07	409.95	2752.90
							7/31/07	409.50	2753.35
							10/16/07	409.17	2753.68
							1/29/08	409.20	2753.65
							4/22/08	408.89	2753.96
							7/29/08	409.02	2753.83
							10/24/08	408.29	2754.56
							1/29/09	409	2753.85
							5/13/09	402.00	2760.85
							4/12/10	405.68	2757.17
							6/29/11	339.30	2823.55
							6/27/12	402.80	2760.05
							5/14/13	407.10	2755.75
							1/28/14	409.04	2753.81
							2/24/14	410.15	2752.70
							3/24/14	411.11	2751.74
							4/25/14	411.92	2750.93
							5/30/14	411.90	2750.95
						Static	6/25/15	414.08	2748.77
						Static	7/18/15	414.05	2748.8
IW-17	545560	Sierrita	3525002.869	497373.717	3160.76	NA	11/15/06	429.15	2731.61
							2/24/07	429.70	2731.06
							7/26/07	427.97	2732.79
							10/16/07	427.70	2733.06
							1/29/08	428.12	2732.64
							4/22/08	428.23	2732.53
							7/29/08	428.40	2732.36
							10/24/08	428.45	2732.31
							1/29/09	428	2732.76
							5/13/09	425.00	2735.76
							4/12/10	425.12	2735.64
							6/29/11	422.10	2738.66
							6/27/12	424.10	2736.66
							5/14/13	428.86	2731.90
							1/28/14	432.11	2728.65
							2/24/14	422.09	2738.67
							3/24/14	435.40	2725.36
							4/25/14	437.29	2723.47
							5/30/14	437.35	2723.41
						Static	6/25/15	443.59	2717.17
						Static	7/18/15	443.60	2717.16
IW-18	545561	Sierrita	3525169.771	497374.056	3171.15	NA	11/21/06	449.02	2722.13
							2/24/07	449.55	2721.60
							7/21/07	446.35	2724.80
							10/16/07	445.25	2725.90
							1/19/08	446.75	2724.40
							4/21/08	447.48	2723.67
							7/29/08	447.00	2724.15
							10/24/08	446.30	2724.85
							1/29/09	447	2724.15
							5/13/09	441.50	2729.65
							4/12/10	442.94	2728.21
							6/29/11	435.35	2735.80
							6/27/12	436.97	2734.18
							5/14/13	443.11	2728.04
							1/28/14	447.78	2723.37
							2/24/14	449.75	2721.40
							3/24/14	451.75	2719.40
							4/25/14	453.68	2717.47
							5/30/14	453.70	2717.45
						Static	6/25/15	DRY	NA

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-19	545562	Sierrita	3525343.392	497373.630	3155.39	NA	11/21/06	418.60	2736.79
							2/23/07	444.65	2710.74
							7/26/07	435.85	2719.54
							1/29/08	451.28	2704.11
							4/21/08	452.00	2703.39
							7/29/08	451.88	2703.51
							10/24/08	451.08	2704.31
							1/29/09	451	2704.39
							5/13/09	413.90	2741.49
							4/12/10	445.24	2710.15
							5/11/11	436.15	2719.24
							5/22/12	432.62	2722.77
							5/14/13	439.33	2716.06
							1/28/14	465.41	2689.98
							2/25/14	422.21	2733.18
							3/24/14	469.27	2686.12
							4/28/14	425.55	2729.84
							5/30/14	469.21	2686.18
							6/9/14	473.38	2682.01
							7/7/14	474.40	2680.99
							7/31/14	473.70	2681.69
							8/27/14	428.00	2727.39
						Dynamic	10/1/14	475.80	2679.59
						Dynamic	11/4/14	475.50	2679.89
						Dynamic	12/2/14	476.05	2679.34
						Dynamic	4/9/15	482.20	2673.19
						Dynamic	5/2/15	488.30	2667.09
						Static	6/11/15	431.40	2723.99
						Static	7/18/15	435.95	2719.44
IW-20	545563	Sierrita	3525568.770	497364.739	3164.21	NA	11/21/06	421.25	2742.96
							1/29/07	445.30	2718.91
							7/26/07	426.21	2738.00
							10/16/07	424.15	2740.06
							1/29/08	424.65	2739.56
							4/21/08	425.15	2739.06
							7/29/08	422.99	2741.22
							10/24/08	424.14	2740.07
							1/29/09	442	2722.21
							5/13/09	414.00	2750.21
							4/29/10	418.07	2746.14
							5/11/11	413.15	2751.06
							6/20/12	414.50	2749.71
							6/17/13	417.26	2746.95
							1/28/14	424.25	2739.96
							2/25/14	420.71	2743.50
							3/24/14	427.83	2736.38
							4/28/14	421.94	2742.27
							5/30/14	427.89	2736.32
							6/9/14	429.20	2735.01
							7/7/14	430.10	2734.11
							7/31/14	430.00	2734.21
							8/27/14	424.80	2739.41
						Dynamic	10/1/14	432.80	2731.41
						Dynamic	11/4/14	432.90	2731.31
						Dynamic	12/2/14	435.80	2728.41
						Static	4/9/15	431.30	2732.91
						Static	5/2/15	431.75	2732.46
						Static	6/11/15	430.80	2733.41
						Static	7/18/15	434.65	2729.56

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-21	545664	Sierrita	3525773.266	497374.585	3171.37	NA	11/21/06	424.80	2746.57
							2/23/07	449.65	2721.72
							7/26/07	454.04	2717.33
							10/16/07	442.10	2729.27
							1/29/08	441.68	2729.69
							4/21/08	441.50	2729.87
							7/29/08	454.00	2717.37
							10/24/08	443.08	2728.29
							1/29/09	484	2687.37
							5/13/09	415.60	2755.77
							5/11/11	736.00	2435.37
							4/15/13	612.58	2558.79
							1/28/14	Obstructed	NA
							3/24/14	Obstructed	NA
							4/25/14	Obstructed	NA
							5/30/14	Obstructed	NA
							6/9/14	Obstructed	NA
							7/7/14	Obstructed	NA
							7/31/14	Obstructed	NA
							8/27/14	Obstructed	NA
							10/1/14	Obstructed	NA
							11/4/14	Obstructed	NA
						Dynamic	12/2/14	507.60	2663.77
						Dynamic	4/9/15	504.10	2667.27
						Dynamic	5/2/15	501.80	2669.57
						Static	6/11/15	433.70	2737.67
						Dynamic	7/18/15	498.30	2673.07
IW-22	200554	Sierrita	3523273.592	497369.590	3128.25	NA	11/21/06	434.75	2693.50
							2/24/07	433.58	2694.67
							7/31/07	430.00	2698.25
							10/18/07	435.75	2692.50
							1/29/08	438.50	2689.75
							4/25/08	439.30	2688.95
							7/29/08	442.08	2686.17
							10/24/08	455.89	2672.36
							1/21/09	442	2686.25
							5/13/09	384.00	2744.25
							4/12/10	434.62	2693.63
							5/11/11	431.21	2697.04
							5/22/12	448.78	2679.47
							4/15/13	459.72	2668.53
							1/29/14	467.14	2661.11
							2/25/14	414.41	2713.84
							3/24/14	471.95	2656.30
							4/28/14	411.44	2716.81
							5/30/14	466.14	2662.11
							6/9/14	461.20	2667.05
							7/7/14	459.10	2669.15
							7/31/14	452.40	2675.85
							8/27/14	397.80	2730.45
						Dynamic	10/1/14	461.00	2667.25
						Dynamic	11/4/14	452.80	2675.45
						Dynamic	12/2/14	453.20	2675.05
						Dynamic	4/9/15	451.70	2676.55
						Static	5/2/15	400.60	2727.65
						Static	6/11/15	400.10	2728.15
						Dynamic	7/8/15	462.90	2665.35

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-23	200555	Sierrita	3522970.788	497369.237	3128.53	NA	12/16/06	544.50	2584.03
							2/24/07	499.20	2629.33
							7/31/07	500.00	2628.53
							10/18/07	518.95	2609.58
							5/13/09	375.00	2753.53
							4/12/10	538.78	2589.75
							5/11/11	516.15	2612.38
							5/22/12	523.21	2605.32
							4/15/13	482.11	2646.42
							1/29/14	528.47	2600.06
							2/25/14	389.51	2739.02
							3/24/14	Obstructed	NA
							4/28/14	385.17	2743.36
							5/30/14	519.31	2609.22
							6/9/14	546.60	2581.93
							7/6/14	546.60	2581.93
							7/31/14	534.90	2593.63
							8/27/14	Insufficient Flow	NA
						Dynamic	10/1/14	546.65	2581.88
						Dynamic	11/4/14	525.20	2603.33
						Dynamic	12/2/14	539.60	2588.93
						Dynamic	4/9/15	471.70	2656.83
						Dynamic	5/2/15	484.70	2643.83
						Static	6/11/15	379.95	2748.58
						Dynamic	7/8/15	482.40	2646.13
IW-24	200556	Sierrita	3522633.594	497371.670	3113.29	NA	4/25/08	522.50	2590.79
							7/29/08	452.50	2660.79
							10/24/08	466.99	2646.30
							5/13/09	348.00	2765.29
							4/12/10	522.90	2590.39
							5/11/11	456.05	2657.24
							5/22/12	512.88	2600.41
							4/15/13	533.21	2580.08
							1/28/14	522.00	2591.29
							2/25/14	358.72	2754.57
							3/25/14	517.78	2595.51
							4/28/14	356.88	2756.41
							5/30/14	514.60	2598.69
							6/9/14	499.00	2614.29
							7/6/14	483.40	2629.89
							7/31/14	457.10	2656.19
							8/27/14	355.00	2758.29
						Dynamic	10/1/14	458.25	2655.04
						Dynamic	11/4/14	475.15	2638.14
						Dynamic	12/2/14	466.90	2646.39
						Dynamic	4/9/15	399.90	2713.39
						Dynamic	5/2/15	407.60	2705.69
						Static	6/11/15	359.80	2753.49
						Dynamic	7/8/15	404.85	2708.44
IW-25	219596	Sierrita	3521725.393	497631.672	3091.66	NA	4/15/13	422.52	2669.14
							6/9/14	436.90	2654.76
						Dynamic	4/9/15	433.00	2658.66
						Dynamic	5/2/15	439.70	2651.96
						Dynamic	6/11/15	439.40	2652.26
						Dynamic	7/8/15	444.75	2646.91
IW-26	219143	Sierrita	3522307.296	497652.833	3100.03	NA	4/15/13	492.21	2607.82
							6/9/14	376.80	2723.23
						Dynamic	4/9/15	432.60	2667.43
						Dynamic	5/2/15	436.70	2663.33
						Dynamic	6/11/15	439.30	2660.73
						Dynamic	7/8/15	441.60	2658.43
IW-27	219136	Sierrita	3522658.299	497602.9752	3120.33	NA	6/5/14	393.50	2726.83
						Dynamic	4/9/15	457.85	2662.48
						Dynamic	5/2/15	466.20	2654.13
						Dynamic	6/11/15	471.10	2649.23
						Dynamic	7/8/15	468.55	2651.78
IW-28	219137	Sierrita	3523178.619	497650.404	3110.71	NA	4/15/13	447.89	2662.82
							6/9/14	434.70	2676.01
						Dynamic	4/9/15	434.70	2676.01
						Dynamic	5/2/15	434.50	2676.21
						Dynamic	6/11/15	434.50	2676.21
						Dynamic	7/8/15	437.10	2673.61

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
IW-29	222865				3088	Dynamic	4/9/15	436.10	2651.90
						Dynamic	5/2/15	437.85	2650.15
						Dynamic	6/11/15	437.80	2650.20
						Dynamic	7/18/15	437.60	2650.40
M-5	87387	Sierrita	3530799.154	499640.485	2997.03	Static	6/16/15	490.32	2506.71
M-8	87390	Sierrita	3529692.237	499658.916	2999.53	NA	1/15/07	460.92	2538.61
							4/16/07	458.83	2540.70
							7/10/07	462.57	2536.96
							10/8/07	465.65	2533.88
							1/9/08	464.68	2534.85
							4/14/08	462.50	2537.03
							7/25/08	466.18	2533.35
							10/28/08	468.82	2530.71
							1/20/09	466.25	2533.28
							5/12/09	465.10	2534.43
							11/5/09	465.60	2533.93
							5/28/10	466.61	2532.92
							10/21/10	471.61	2527.92
							6/15/11	467.35	2532.18
							11/17/11	471.23	2528.30
							6/29/12	464.98	2534.55
							10/29/12	472.66	2526.87
							4/17/13	466.32	2533.21
							5/21/13	464.70	2534.83
							10/29/13	472.55	2526.98
							3/12/14	472.63	2526.90
							4/22/14	473.69	2525.84
							5/8/14	473.53	2526.00
							6/9/14	476.70	2522.83
							7/28/14	479.96	2519.57
							8/7/14	480.13	2519.40
							9/8/14	481.99	2517.54
						Static	10/28/14	484.31	2515.22
						Static	11/4/14	484.66	2514.87
						Static	12/16/14	484.74	2514.79
						Static	1/29/15	484.88	2514.65
						Static	2/27/15	484.93	2514.60
						Static	3/19/15	484.02	2515.51
						Static	4/6/15	484.53	2515.00
						Static	5/21/15	486.24	2513.29
						Static	6/1/15	486.56	2512.97
						Static	7/23/15	DRY	NA
						Static	8/31/15	DRY	NA
M-9	501652	Sierrita	3530303.954	499984.173	2973.81	NA	7/18/06	442.70	2531.11
							1/15/07	445.76	2528.05
							7/10/07	450.75	2523.06
							10/8/07	453.15	2520.66
							1/8/08	447.50	2526.31
							4/14/08	448.50	2525.31
							7/21/08	454.27	2519.54
							10/28/08	457.72	2516.09
							1/20/09	450.78	2523.03
							5/13/09	452.00	2521.81
							6/16/10	453.85	2519.96
							6/2/11	452.35	2521.46
							6/27/12	455.78	2518.03
							5/1/13	473.80	2500.01
							3/12/14	483.66	2490.15
							4/22/14	464.39	2509.42
							5/8/14	464.37	2509.44
							6/9/14	457.78	2516.03
							7/28/14	461.34	2512.47
							8/7/14	462.06	2511.75
							9/8/14	463.43	2510.38
						Static	10/28/14	464.55	2509.26
						Static	11/4/14	466.10	2507.71
						Static	12/16/14	467.81	2506.00
						Static	1/20/15	461.04	2512.77
						Static	2/27/15	465.19	2508.62
						Static	3/19/15	460.12	2513.69
						Static	4/6/15	460.84	2512.97
						Static	5/21/15	461.18	2512.63
						Static	6/1/15	461.29	2512.52
						Static	7/23/15	467.84	2505.97
						Static	8/31/15	469.81	2504.00

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
M-10	501653	Sierrita	3530143.114	499659.027	3005.68	NA	7/18/06	472.72	2532.96
							1/15/07	473.65	2532.03
							4/16/07	471.47	2534.21
							7/10/07	477.16	2528.52
							10/8/07	478.45	2527.23
							1/8/08	477.60	2528.08
							4/14/08	475.48	2530.20
							7/21/08	480.15	2525.53
							10/28/08	483.70	2521.98
							1/20/09	475.85	2529.83
							5/12/09	478.80	2526.88
							11/5/09	481.20	2524.48
							6/4/10	480.29	2525.39
							10/21/10	486.40	2519.28
							5/10/11	478.33	2527.35
							11/16/11	484.66	2521.02
							6/25/12	482.73	2522.95
							10/29/12	486.64	2519.04
							4/17/13	478.63	2527.05
							10/29/13	486.07	2519.61
							4/22/14	483.06	2522.62
						Static	11/4/14	493.67	2512.01
						Static	4/6/15	491.46	2514.22
M-11	501654	Sierrita	3530757.848	500267.433	2938.82	Static	6/16/15	433.11	2505.71
M-13	508428	Sierrita	3530907.067	498739.360	3077.00	Static	6/18/15	569.71	2507.29
M-20	906595	TBPI	3528491.771	499082.070	3054.00	Static	7/18/06	484.18	2569.82
							1/15/07	489.14	2564.86
							7/10/07	486.70	2567.30
							7/12/07	493.26	2560.74
							1/9/08	495.80	2558.20
							4/14/08	494.22	2559.78
							7/25/08	493.70	2560.30
							10/28/08	498.00	2556.00
							1/20/09	497.75	2556.25
							5/12/09	496.80	2557.20
							5/28/10	498.51	2555.49
							5/9/11	499.14	2554.86
							6/26/12	500.50	2553.50
							4/23/13	499.65	2554.35
							4/22/14	511.42	2542.58
							4/27/15	529.31	2524.69
MC-1	221660	Sierrita	3525205.054	498913.093	3038.621	NA	1/15/14	440.93	2597.69
							1/22/14	437.02	2601.60
							1/29/14	442.57	2596.05
							3/13/14	447.98	2590.64
							5/14/14	455.31	2583.31
							6/9/14	456.50	2582.12
							7/6/14	458.90	2579.72
							7/31/14	460.50	2578.12
							8/27/14	462.20	2576.42
						Dynamic	10/1/14	450.25	2588.37
						Dynamic	11/4/14	466.80	2571.82
						Dynamic	12/2/14	468.10	2570.52
						Dynamic	1/4/15	469.30	2569.32
						Dynamic	2/4/15	469.65	2568.97
						Dynamic	3/3/15	470.90	2567.72
						Dynamic	4/9/15	472.20	2566.42
						Dynamic	5/2/15	473.40	2565.22
						Static	6/11/15	460.25	2578.37
						Dynamic	7/6/15	475.74	2562.88
						Static	8/18/15	462.52	2576.10

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MC-2	221761	Sierrita	3526365.512	499369.116	3008.28	NA	3/14/14	Obstructed	NA
							5/14/14	440.68	2567.60
							5/15/14	440.66	2567.62
							5/22/14	442.47	2565.81
							6/9/14	443.70	2564.58
							7/6/14	445.80	2562.48
							7/31/14	447.50	2560.78
							8/27/14	449.30	2558.98
							8/31/14	447.40	2560.88
						Dynamic	10/1/14	442.65	2565.63
						Dynamic	11/4/14	453.60	2554.68
						Dynamic	12/2/14	454.75	2553.53
						Dynamic	1/4/15	456.40	2551.88
						Dynamic	3/3/15	457.95	2550.33
						Dynamic	4/9/15	459.20	2549.08
						Dynamic	5/2/15	460.65	2547.63
						Static	6/11/15	453.20	2555.08
						Dynamic	7/6/15	463.20	2545.08
						Dynamic	8/18/15	464.40	2543.88
MC-3	221661	Sierrita	3526911.999	498858.417	3062.33	NA	3/13/14	Obstructed	NA
							5/13/14	515.62	2546.71
							5/15/14	515.62	2546.71
							5/22/14	516.21	2546.12
							6/9/14	517.70	2544.63
							7/6/14	519.50	2542.83
							7/31/14	521.40	2540.93
							8/27/14	522.95	2539.38
						Dynamic	10/1/14	519.75	2542.58
						Dynamic	11/4/14	527.25	2535.08
						Dynamic	12/2/14	528.65	2533.68
						Dynamic	1/4/15	530.50	2531.83
						Dynamic	2/4/15	531.21	2531.12
						Dynamic	3/3/15	532.10	2530.23
						Dynamic	4/9/15	533.10	2529.23
						Dynamic	5/2/15	534.05	2528.28
						Static	6/11/15	531.35	2530.98
						Dynamic	7/6/15	536.45	2525.88
						Dynamic	8/18/15	537.60	2524.73
MC-4	220842	Sierrita	3527773.257	498625.865	3096.035	NA	3/13/14	Obstructed	NA
							5/13/14	560.86	2535.18
							5/15/14	560.86	2535.18
							5/22/14	561.09	2534.95
							6/5/14	561.90	2534.14
							7/6/14	564.00	2532.04
							7/31/14	565.70	2530.34
							8/27/14	567.25	2528.79
						Dynamic	10/1/14	558.80	2537.24
						Dynamic	11/4/14	572.20	2523.84
						Dynamic	12/2/14	573.70	2522.34
						Dynamic	1/4/15	575.35	2520.69
						Dynamic	2/4/15	576.10	2519.94
						Dynamic	3/3/15	576.95	2519.09
						Dynamic	4/9/15	577.95	2518.09
						Dynamic	5/2/15	579.10	2516.94
						Static	6/11/15	569.10	2526.94
						Dynamic	7/6/15	581.40	2514.64
						Dynamic	8/18/15	582.70	2513.34
MH-1	803629	Sierrita	3525872.911	497372.392	3179.27	NA	11/21/06	443.90	2735.37
							1/10/07	444.15	2735.12
							4/20/07	442.70	2736.57
							7/3/07	441.33	2737.94
							11/8/07	440.10	2739.17
							1/28/08	439.97	2739.30
							4/24/08	440.44	2738.83
							8/7/08	439.65	2739.62
							11/14/08	441.45	2737.82
							2/17/09	440.90	2738.37
							6/2/09	440.70	2738.57
							4/13/10	438.62	2740.65
							4/19/11	436.65	2742.62
							4/25/12	436.95	2742.32
							4/29/14	448.90	2730.37
						Static	6/4/15	460.67	2718.60

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-3	803630	Sierrita	3525270.181	497472.430	3155.87	NA	12/18/06	427.70	2728.17
							2/23/07	427.31	2728.56
							4/23/07	425.51	2730.36
							7/21/07	424.22	2731.65
							10/20/07	422.15	2733.72
							1/19/08	424.80	2731.07
							4/21/08	425.44	2730.43
							7/29/08	424.15	2731.72
							10/24/08	426.10	2729.77
							2/17/09	425.46	2730.41
							6/2/09	425.18	2730.69
							4/13/10	418.92	2736.95
							4/19/11	420.10	2735.77
							4/25/12	419.53	2736.34
							4/2/13	425.84	2730.03
							3/12/14	433.09	2722.78
							4/25/14	436.44	2719.43
							5/14/14	436.40	2719.47
							6/24/14	436.38	2719.49
							7/7/14	439.20	2716.67
							8/8/14	440.46	2715.41
							9/9/14	441.45	2714.42
						Static	10/28/14	441.25	2714.62
						Static	11/26/14	441.30	2714.57
						Static	12/20/14	441.33	2714.54
						Static	1/29/15	441.35	2714.52
						Static	2/27/15	441.33	2714.54
						Static	3/26/15	445.39	2710.48
						Static	4/29/15	445.36	2710.51
						Static	5/21/15	445.34	2710.53
						Static	6/3/15	445.40	2710.47
						Static	7/23/15	448.90	2706.97
						Static	8/25/15	450.58	2705.29
MH-5	803632	Sierrita	3523725.339	497477.352	3123.47	NA	11/21/06	389.22	2734.25
							1/12/07	390.70	2732.77
							4/20/07	391.60	2731.87
							7/3/07	391.66	2731.81
							11/8/07	392.95	2730.52
							1/28/08	391.40	2732.07
							4/24/08	390.30	2733.17
							8/7/08	391.55	2731.92
							11/14/08	391.98	2731.49
							2/17/09	391.33	2732.14
							6/2/09	391.30	2732.17
							4/13/10	381.47	2742.00
							4/18/11	387.96	2735.51
							6/14/12	398.80	2724.67
							5/23/13	403.59	2719.88
							4/29/14	Obstructed	NA
							5/22/14	Obstructed	NA
							5/28/14	408.22	2715.25
						Static	6/16/15	408.45	2715.02
MH-6	803633	Sierrita	3522770.451	497436.646	3133.97	NA	11/14/06	381.65	2752.32
							1/9/07	378.32	2755.65
							4/20/07	374.80	2759.17
							7/3/07	379.00	2754.97
							11/8/07	380.30	2753.67
							1/28/08	379.15	2754.82
							4/24/08	379.20	2754.77
							8/7/08	379.50	2754.47
							11/14/08	379.50	2754.47
							2/17/09	378.52	2755.45
							6/2/09	379.45	2754.52
							4/13/10	389.35	2744.62
							5/17/11	387.85	2746.12
							6/7/12	382.63	2751.34
							4/2/13	402.02	2731.95
							4/29/14	403.91	2730.06
						Static	6/4/15	403.20	2730.77

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-7	803634	Sierrita	3522016.471	497502.475	3111.23	NA	11/21/06	357.85	2753.38
							1/12/07	360.20	2751.03
							4/20/07	368.20	2743.03
							7/3/07	370.20	2741.03
							11/8/07	370.60	2740.63
							1/28/08	371.00	2740.23
							4/24/08	370.92	2740.31
							8/8/08	372.22	2739.01
							11/14/08	373.20	2738.03
							2/17/09	372.48	2738.75
							6/2/09	371.53	2739.70
							4/13/10	372.63	2738.60
							4/18/11	368.76	2742.47
							6/14/12	381.09	2730.14
							5/23/13	391.31	2719.92
							4/29/14	389.57	2721.66
						Static	6/4/15	392.63	2718.60
MH-9	803635	Sierrita	3521252.607	496438.181	3162.57	NA	11/8/06	380.58	2781.99
							1/9/07	362.10	2800.47
							4/20/07	363.60	2798.97
							7/3/07	365.25	2797.32
							11/8/07	367.95	2794.62
							1/28/08	368.58	2793.99
							4/24/08	367.08	2795.49
							8/8/08	370.38	2792.19
							11/14/08	371.70	2790.87
							2/17/09	371.97	2790.60
							6/2/09	370.30	2792.27
							4/15/10	373.30	2789.27
							4/19/11	375.11	2787.46
							4/26/12	380.49	2782.08
							5/23/13	386.04	2776.53
							3/12/14	390.22	2772.35
							4/25/14	390.54	2772.03
							5/14/14	390.45	2772.12
							6/24/14	390.41	2772.16
							7/29/14	388.82	2773.75
							8/8/14	387.62	2774.95
							9/9/14	387.00	2775.57
						Static	10/28/14	387.73	2774.84
						Static	11/26/14	388.10	2774.47
						Static	12/21/14	388.40	2774.17
						Static	1/29/15	388.56	2774.01
						Static	2/27/15	388.62	2773.95
						Static	3/26/15	388.39	2774.18
						Static	4/29/15	388.42	2774.15
						Static	5/21/15	388.45	2774.12
						Static	6/3/15	388.51	2774.06
						Static	7/23/15	389.72	2772.85
						Static	8/25/15	388.55	2774.02
MH-10	803636	Sierrita	3521236.861	495717.770	3187.84	NA	11/8/06	346.70	2841.14
							1/9/07	364.80	2823.04
							4/3/07	355.65	2832.19
							7/16/07	356.75	2831.09
							10/16/07	357.60	2830.24
							1/3/08	358.32	2829.52
							4/28/08	358.83	2829.01
							7/31/08	358.50	2829.34
							11/4/08	360.00	2827.84
							1/2/09	360.15	2827.69
							4/14/09	363.50	2824.34
							4/26/10	362.04	2825.80
							5/18/11	363.39	2824.45
							6/5/12	366.25	2821.59
							6/10/13	369.96	2817.88
							4/23/14	371.84	2816.00
						Static	4/14/15	374.09	2813.75

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MH-11	803637	Sierrita	3524463.648	498749.381	3041.76	NA	11/9/06	369.90	2671.86
							1/11/07	369.55	2672.21
							4/10/07	370.46	2671.30
							7/17/07	372.75	2669.01
							10/3/07	373.80	2667.96
							1/4/08	373.36	2668.40
							4/29/08	373.89	2667.87
							7/29/08	375.10	2666.66
							11/7/08	376.85	2664.91
							3/19/09	374.88	2666.88
							5/13/09	375.75	2666.01
							4/27/10	375.85	2665.91
							5/24/11	376.65	2665.11
							5/24/12	376.65	2665.11
							4/23/13	383.85	2657.91
							3/12/14	399.52	2642.24
							4/29/14	404.51	2637.25
							5/14/14	404.48	2637.28
							6/12/14	408.00	2633.76
							7/28/14	411.79	2629.97
							8/7/14	412.19	2629.57
							9/8/14	413.51	2628.25
						Static	10/29/14	416.87	2624.89
						Static	11/26/14	419.24	2622.52
						Static	12/17/14	421.06	2620.70
						Static	1/29/15	422.70	2619.06
						Static	2/27/15	422.96	2618.80
						Static	3/18/15	421.87	2619.89
						Static	4/16/15	420.86	2620.90
						Static	5/21/15	421.21	2620.55
						Static	6/2/15	421.52	2620.24
						Static	7/24/15	425.30	2616.46
						Static	8/14/15	427.11	2614.65
MH-12	803638	Sierrita	3525207.002	498772.161	3055.08	NA	3/12/14	Obstructed	NA
							4/29/14	DRY	NA
							5/14/14	DRY	NA
							6/9/14	DRY	NA
							7/28/14	DRY	NA
							8/7/14	DRY	NA
							9/8/14	DRY	NA
							10/28/14	DRY	NA
							11/26/14	DRY	NA
							12/17/14	DRY	NA
							1/28/15	DRY	NA
							2/27/15	DRY	NA
							3/18/15	DRY	NA
							4/2/15	DRY	NA
							5/21/15	DRY	NA
						Static	6/11/15	DRY	NA
						Static	7/23/15	DRY	NA
						Static	8/25/15	DRY	NA

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-13A	904071	Sierrita	3523793.443	498823.857	3026.23	NA	11/10/06	327.84	2698.39
							1/24/07	326.35	2699.88
							4/18/07	328.14	2698.09
							7/17/07	330.98	2695.25
							10/4/07	331.70	2694.53
							1/4/08	330.85	2695.38
							4/29/08	331.80	2694.43
							7/16/08	333.78	2692.45
							10/20/08	334.64	2691.59
							1/23/09	332.98	2693.25
							4/15/09	332.19	2694.04
							4/21/10	333.27	2692.96
							5/23/11	334.40	2691.83
							6/11/12	337.90	2688.33
							4/3/13	344.58	2681.65
							3/12/14	353.78	2672.45
							4/10/14	355.73	2670.50
							5/14/14	355.70	2670.53
							6/12/14	360.00	2666.23
							7/28/14	362.78	2663.45
							8/7/14	363.32	2662.91
							9/8/14	364.56	2661.67
						Static	10/29/14	365.24	2660.99
						Static	11/26/14	365.91	2660.32
						Static	12/17/14	366.51	2659.72
						Static	1/29/15	366.84	2659.39
						Static	2/27/15	366.90	2659.33
						Static	3/18/15	370.52	2655.71
						Static	4/22/15	370.80	2655.43
						Static	5/21/15	370.92	2655.31
						Static	6/2/15	371.02	2655.21
						Static	7/23/15	371.17	2655.06
						Static	8/25/15	375.27	2650.96
MH-13B	904072	Sierrita	3523787.358	498829.881	3025.63	NA	11/10/06	330.70	2694.93
							1/24/07	330.58	2695.05
							4/18/07	332.21	2693.42
							7/17/07	335.47	2690.16
							10/3/07	335.90	2689.73
							1/4/08	334.85	2690.78
							4/29/08	336.35	2689.28
							7/16/08	337.92	2687.71
							10/20/08	339.14	2686.49
							1/23/09	337.20	2688.43
							4/15/09	336.50	2689.13
							4/21/10	337.47	2688.16
							5/23/11	338.75	2686.88
							6/11/12	342.50	2683.13
							4/3/13	348.98	2676.65
							3/12/14	358.93	2666.70
							4/10/14	361.02	2664.61
							5/14/14	360.97	2664.66
							6/12/14	365.82	2659.81
							7/28/14	368.39	2657.24
							8/7/14	369.30	2656.33
							9/8/14	369.93	2655.70
						Static	10/29/14	370.39	2655.24
						Static	11/26/14	370.78	2654.85
						Static	12/17/14	371.23	2654.40
						Static	1/29/15	372.73	2652.90
						Static	2/27/15	373.00	2652.63
						Static	3/18/15	375.64	2649.99
						Static	4/22/15	375.55	2650.08
						Static	5/21/15	375.62	2650.01
						Static	6/2/15	375.68	2649.95
						Static	7/23/15	375.75	2649.88
						Static	8/25/15	380.98	2644.65

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-13C	904073	Sierrita	3523793.032	498797.461	3028.46	NA	11/10/06	335.38	2693.08
							1/24/07	335.45	2693.01
							4/18/07	337.80	2690.66
							7/17/07	339.82	2688.64
							10/4/07	340.75	2687.71
							1/4/08	340.42	2688.04
							4/29/08	341.55	2686.91
							7/16/08	343.35	2685.11
							10/20/08	344.57	2683.89
							1/23/09	343.82	2684.64
							4/15/09	343.08	2685.38
							4/21/10	343.86	2684.60
							5/23/11	344.30	2684.16
							6/11/12	348.75	2679.71
							4/3/13	353.62	2674.84
							3/12/14	362.99	2665.47
							4/10/14	365.21	2663.25
							5/14/14	365.22	2663.24
							6/12/14	370.51	2657.95
							7/28/14	373.52	2654.94
							8/7/14	374.46	2654.00
							9/8/14	375.79	2652.67
						Static	10/29/14	376.54	2651.92
						Static	11/26/14	377.00	2651.46
						Static	12/17/14	377.60	2650.86
						Static	1/29/15	378.11	2650.35
						Static	2/27/15	378.52	2649.94
						Static	3/18/15	382.36	2646.10
						Static	4/22/15	382.61	2645.85
						Static	5/21/15	382.75	2645.71
						Static	6/2/15	382.87	2645.59
						Static	7/23/15	382.94	2645.52
						Static	8/25/15	386.44	2642.02
MH-14	528098	Sierrita	3525269.340	497517.626	3153.46	NA	12/18/06	427.28	2726.18
							2/23/07	426.75	2726.71
							4/23/07	425.58	2727.88
							7/10/07	424.20	2729.26
							10/17/07	422.80	2730.66
							1/18/08	424.87	2728.59
							4/8/08	425.13	2728.33
							7/22/08	423.92	2729.54
							10/6/08	426.03	2727.43
							2/13/09	425.90	2727.56
							4/7/09	424.90	2728.56
							4/15/10	422.91	2730.55
							8/12/10	421.82	2731.64
							4/19/11	418.94	2734.52
							4/25/12	419.83	2733.63
							4/2/13	425.59	2727.87
							10/21/13	426.13	2727.33
							1/3/14	426.45	2727.01
							3/12/14	Dry	NA
							3/25/14	435.04	2718.42
							4/9/14	436.20	2717.26
							5/14/14	436.12	2717.34
							6/24/14	436.09	2717.37
							7/7/14	440.32	2713.14
							8/8/14	441.58	2711.88
							9/9/14	442.76	2710.70
						Static	10/28/14	442.79	2710.67
						Static	11/4/14	443.64	2709.82
						Static	12/20/14	444.48	2708.98
						Static	1/7/15	445.85	2707.61
						Static	2/27/15	446.20	2707.26
						Static	3/26/15	447.25	2706.21
						Static	4/21/15	447.63	2705.83
						Static	5/21/15	447.89	2705.57
						Static	6/2/15	447.93	2705.53
						Static	7/6/15	449.87	2703.59
						Static	8/25/15	452.49	2700.97

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-15E	528094	Sierrita	3523274.327	497584.800	3111.37	NA	11/10/06	385.25	2726.12
							2/23/07	384.07	2727.30
							4/23/07	385.11	2726.26
							7/21/07	385.80	2725.57
							10/20/07	387.08	2724.29
							1/18/08	386.60	2724.77
							4/21/08	386.18	2725.19
							7/29/08	387.39	2723.98
							10/24/08	388.51	2722.86
							2/17/09	387.46	2723.91
							6/2/09	386.98	2724.39
							4/13/10	386.17	2725.20
							4/18/11	382.69	2728.68
							6/14/12	391.96	2719.41
							4/2/13	407.42	2703.95
							3/12/14	409.49	2701.88
							4/25/14	410.59	2700.78
							5/14/14	410.62	2700.75
							6/24/14	410.60	2700.77
							7/29/14	404.02	2707.35
							8/8/14	404.33	2707.04
							9/9/14	404.56	2706.81
						Static	10/28/14	402.90	2708.47
						Static	11/26/14	403.20	2708.17
						Static	12/20/14	403.49	2707.88
						Static	1/29/15	403.64	2707.73
						Static	2/27/15	403.66	2707.71
						Static	3/26/15	401.26	2710.11
						Static	4/29/15	401.28	2710.09
						Static	5/21/15	401.25	2710.12
						Static	6/3/15	401.31	2710.06
						Static	7/23/15	411.84	2699.53
						Static	8/25/15	416.47	2694.90
MH-15W	528093	Sierrita	3523275.003	497524.067	3117.07	NA	12/18/06	391.30	2725.77
							2/23/07	390.00	2727.07
							4/23/07	391.18	2725.89
							7/11/07	390.85	2726.22
							10/17/07	393.10	2723.97
							1/18/08	392.90	2724.17
							4/8/08	391.00	2726.07
							7/1/08	392.70	2724.37
							10/6/08	394.00	2723.07
							1/7/09	392.55	2724.52
							5/6/09	390.25	2726.82
							4/15/10	390.58	2726.49
							8/12/10	389.20	2727.87
							5/17/11	388.95	2728.12
							4/25/12	397.62	2719.45
							5/28/13	409.15	2707.92
							12/12/13	414.19	2702.88
							1/3/14	412.60	2704.47
							3/12/14	414.01	2703.06
							4/9/14	412.76	2704.31
							5/14/14	412.77	2704.30
							6/24/14	412.74	2704.33
							7/7/14	413.44	2703.63
							8/8/14	409.65	2707.42
							9/9/14	407.53	2709.54
						Static	10/28/14	403.64	2713.43
						Static	11/4/14	405.18	2711.89
						Static	12/20/14	406.58	2710.49
						Static	1/7/15	405.68	2711.39
						Static	2/27/15	405.79	2711.28
						Static	3/26/15	401.30	2715.77
						Static	4/21/15	401.33	2715.74
						Static	5/18/15	401.27	2715.80
						Static	6/3/15	401.36	2715.71
						Static	7/6/15	401.37	2715.70
						Static	8/25/15	419.08	2697.99

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-16E	528100	Sierrita	3521870.233	497576.673	3097.72	NA	12/18/06	344.70	2753.02
							2/23/07	349.39	2748.33
							4/23/07	352.85	2744.87
							7/21/07	355.00	2742.72
							10/20/07	355.55	2742.17
							1/19/08	355.30	2742.42
							4/21/08	355.15	2742.57
							7/29/08	356.78	2740.94
							10/24/08	357.62	2740.10
							2/17/09	357.02	2740.70
							6/2/09	354.15	2743.57
							4/13/10	357.71	2740.01
							4/18/11	354.93	2742.79
							4/26/12	362.82	2734.90
							5/23/13	364.82	2732.90
							3/12/14	384.61	2713.11
							4/25/14	382.54	2715.18
							5/14/14	382.56	2715.16
							6/24/14	382.55	2715.17
							7/29/14	380.17	2717.55
							8/8/14	381.30	2716.42
							9/9/14	382.26	2715.46
						Static	10/28/14	379.10	2718.62
						Static	11/26/14	380.26	2717.46
						Static	12/21/14	381.24	2716.48
						Static	1/29/15	381.30	2716.42
						Static	2/27/15	381.33	2716.39
						Static	3/26/15	379.61	2718.11
						Static	4/29/15	379.56	2718.16
						Static	5/21/15	379.58	2718.14
						Static	6/3/15	379.64	2718.08
						Static	7/23/15	385.44	2712.28
						Static	8/25/15	386.73	2710.99
MH-16W	528099	Sierrita	3521870.818	497516.074	3100.24	NA	12/18/06	346.62	2753.62
							2/23/07	352.18	2748.06
							4/23/07	355.75	2744.49
							7/11/07	357.47	2742.77
							10/17/07	357.75	2742.49
							1/3/08	357.80	2742.44
							4/24/08	357.87	2742.37
							7/22/08	359.24	2741.00
							10/8/08	360.03	2740.21
							3/19/09	358.73	2741.51
							4/7/09	358.60	2741.64
							4/15/10	360.31	2739.93
							8/12/10	360.42	2739.82
							5/17/11	357.55	2742.69
							4/25/12	364.24	2736.00
							4/2/13	377.99	2722.25
							10/21/13	387.88	2712.36
							1/3/14	389.39	2710.85
							3/12/14	385.88	2714.36
							4/9/14	383.83	2716.41
							5/14/14	383.87	2716.37
							6/24/14	383.89	2716.35
							7/7/14	381.43	2718.81
							8/8/14	382.48	2717.76
							9/9/14	383.38	2716.86
						Static	10/28/14	379.41	2720.83
						Static	11/4/14	380.82	2719.42
						Static	12/21/14	382.11	2718.13
						Static	1/7/15	382.74	2717.50
						Static	2/27/15	382.81	2717.43
						Static	3/26/15	379.84	2720.40
						Static	4/21/15	381.49	2718.75
						Static	5/21/15	381.20	2719.04
						Static	6/3/15	381.43	2718.81
						Static	7/6/15	385.73	2714.51
						Static	8/25/15	387.68	2712.56

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-24	563799	Sierrita	3523709.046	497390.515	3131.16	NA	11/21/06	397.50	2733.66
							4/20/07	399.35	2731.81
							8/3/07	399.33	2731.83
							11/8/07	400.50	2730.66
							1/30/08	396.90	2734.26
							4/24/08	395.89	2735.27
							8/7/08	396.78	2734.38
							11/14/08	396.88	2734.28
							2/17/09	396.31	2734.85
							6/2/09	396.50	2734.66
							4/13/10	386.43	2744.73
							4/18/11	392.84	2738.32
							4/25/12	396.58	2734.58
							4/2/13	408.56	2722.60
							4/29/14	Obstructed	NA
							5/22/14	407.41	2723.75
						Static	6/4/15	404.82	2726.34
MH-25A	201528	Sierrita	3526510.175	498880.349	3056.57	NA	11/13/06	454.11	2602.46
							1/10/07	453.10	2603.47
							4/4/07	452.20	2604.37
							7/20/07	454.02	2602.55
							10/3/07	454.69	2601.88
							1/2/08	454.82	2601.75
							4/25/08	454.47	2602.10
							7/2/08	455.68	2600.89
							10/17/08	457.49	2599.08
							1/5/09	457	2599.57
							4/15/09	455.90	2600.67
							4/13/10	458.10	2598.47
							4/27/11	459.25	2597.32
							5/1/12	459.69	2596.88
							4/3/13	461.70	2594.87
							3/12/14	473.95	2582.62
							4/15/14	477.45	2579.12
							5/13/14	477.40	2579.17
							6/9/14	482.36	2574.21
							7/28/14	486.66	2569.91
							8/7/14	488.09	2568.48
							9/8/14	489.49	2567.08
						Static	10/29/14	492.67	2563.90
						Static	11/26/14	495.20	2561.37
						Static	12/17/14	497.76	2558.81
						Static	1/29/15	499.10	2557.47
						Static	2/27/15	500.16	2556.41
						Static	3/18/15	498.50	2558.07
						Static	4/7/15	499.37	2557.20
						Static	5/21/15	501.39	2555.18
						Static	6/1/15	503.19	2553.38
						Static	8/31/15	505.05	2551.52

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Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-25B	208429	Sierrita	3526515.244	498870.343	3058.22	NA	11/13/06	455.36	2602.86
							1/10/07	454.28	2603.94
							4/4/07	453.20	2605.02
							7/20/07	455.32	2602.90
							10/3/07	456.01	2602.21
							1/2/08	456.05	2602.17
							4/25/08	456.02	2602.20
							7/2/08	457.10	2601.12
							10/17/08	458.39	2599.83
							1/5/09	458.38	2599.84
							4/15/09	457.28	2600.94
							4/13/10	458.27	2599.95
							4/27/11	460.35	2597.87
							6/15/11	460.85	2597.37
							5/1/12	460.90	2597.32
							4/3/13	463.02	2595.20
							3/12/14	475.49	2582.73
							4/15/14	478.92	2579.30
							5/13/14	478.93	2579.29
							6/9/14	483.75	2574.47
							7/28/14	488.06	2570.16
							8/7/14	489.41	2568.81
							9/8/14	490.78	2567.44
						Static	10/29/14	493.95	2564.27
						Static	11/26/14	496.89	2561.33
						Static	12/17/14	499.64	2558.58
						Static	1/29/15	501.19	2557.03
						Static	2/27/15	502.38	2555.84
						Static	3/18/15	499.72	2558.50
						Static	4/7/15	500.60	2557.62
						Static	5/21/15	502.63	2555.59
						Static	6/1/15	502.94	2555.28
						Static	7/23/15	504.42	2553.80
						Static	8/31/15	DRY	NA
MH-25C	208426	Sierrita	3526491.132	498874.666	3057.24	NA	11/13/06	454.65	2602.59
							1/10/07	453.57	2603.67
							4/13/07	452.30	2604.94
							7/20/07	454.42	2602.82
							10/3/07	455.19	2602.05
							1/2/08	455.06	2602.18
							4/25/08	454.84	2602.40
							7/2/08	456.23	2601.01
							10/17/08	457.49	2599.75
							1/5/09	457.30	2599.94
							4/15/09	456.41	2600.83
							4/13/10	459.28	2597.96
							4/27/11	459.16	2598.08
							6/15/11	459.52	2597.72
							5/1/12	459.76	2597.48
							4/3/13	461.80	2595.44
							3/12/14	474.31	2582.93
							4/15/14	477.67	2579.57
							5/13/14	477.63	2579.61
							6/9/14	482.63	2574.61
							7/28/14	487.01	2570.23
							8/7/14	488.25	2568.99
							9/8/14	489.69	2567.55
						Static	10/29/14	492.81	2564.43
						Static	11/26/14	495.28	2561.96
						Static	12/17/14	497.94	2559.30
						Static	1/29/15	500.06	2557.18
						Static	2/27/15	501.45	2555.79
						Static	3/18/15	498.51	2558.73
						Static	4/7/15	DRY	NA
						Static	5/21/15	DRY	NA
						Static	6/1/15	DRY	NA
						Static	7/23/15	DRY	NA
						Static	8/31/15	DRY	NA

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Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-26A	201527	Sierrita	3527818.233	498852.692	3070.89	NA	11/13/06	495.74	2575.15
							1/15/07	495.65	2575.24
							4/4/07	493.75	2577.14
							7/19/07	495.02	2575.87
							10/2/07	496.12	2574.77
							1/2/08	496.28	2574.61
							4/25/08	495.73	2575.16
							7/2/08	496.98	2573.91
							10/17/08	498.23	2572.66
							1/5/09	498.76	2572.13
							4/21/09	497.85	2573.04
							4/13/10	499.68	2571.21
							4/27/11	500.71	2570.18
							5/2/12	501.05	2569.84
							4/4/13	501.96	2568.93
							3/12/14	513.50	2557.39
							4/15/14	513.40	2557.49
							5/13/14	513.36	2557.53
							6/9/14	520.93	2549.96
							7/28/14	524.95	2545.94
							8/7/14	525.55	2545.34
							9/8/14	DRY	NA
						Static	10/28/14	DRY	NA
						Static	11/26/14	DRY	NA
						Static	12/16/14	DRY	NA
						Static	1/29/15	DRY	NA
						Static	2/27/15	DRY	NA
						Static	3/18/15	DRY	NA
						Static	4/7/15	DRY	NA
						Static	5/2/15	DRY	NA
						Static	6/1/15	DRY	NA
						Static	7/8/15	DRY	NA
						Static	8/17/15	DRY	NA
MH-26B	208427	Sierrita	3527814.016	498839.900	3070.50	NA	11/13/06	493.00	2577.50
							1/15/07	492.85	2577.65
							4/4/07	490.78	2579.72
							7/19/07	492.01	2578.49
							10/2/07	493.18	2577.32
							1/2/08	493.76	2576.74
							4/25/08	492.98	2577.52
							7/2/08	494.10	2576.40
							10/20/08	495.31	2575.19
							1/5/09	495.88	2574.62
							4/21/09	494.90	2575.60
							4/13/10	496.77	2573.73
							5/5/11	497.73	2572.77
							5/1/12	498.00	2572.50
							4/4/13	499.03	2571.47
							3/12/14	510.69	2559.81
							4/15/14	510.67	2559.83
							5/13/14	510.68	2559.82
							6/9/14	517.75	2552.75
							7/28/14	522.14	2548.36
							8/7/14	523.46	2547.04
							9/8/14	524.35	2546.15
						Static	10/28/14	527.68	2542.82
						Static	11/26/14	529.90	2540.60
						Static	12/16/14	531.11	2539.39
						Static	1/29/15	531.79	2538.71
						Static	2/27/15	532.68	2537.82
						Static	3/18/15	533.34	2537.16
						Static	4/7/15	534.12	2536.38
						Static	5/21/15	535.90	2534.60
						Static	6/1/15	535.79	2534.71
						Static	7/8/15	537.52	2532.98
						Static	8/17/15	DRY	NA

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-26C	208428	Sierrita	3527806.770	498865.240	3069.11	NA	11/13/06	494.45	2574.66
							1/15/07	494.10	2575.01
							4/4/07	492.30	2576.81
							7/19/07	493.62	2575.49
							10/2/07	496.58	2572.53
							1/2/08	495.35	2573.76
							4/25/08	494.37	2574.74
							7/2/08	495.55	2573.56
							10/20/08	496.78	2572.33
							1/5/09	497.21	2571.90
							4/21/09	493.95	2575.16
							4/13/10	498.14	2570.97
							4/27/11	499.14	2569.97
							5/1/12	499.44	2569.67
							4/4/13	500.61	2568.50
							3/12/14	512.31	2556.80
							4/15/14	512.27	2556.84
							5/13/14	512.30	2556.81
							6/9/14	519.21	2549.90
							7/28/14	523.77	2545.34
							8/7/14	525.34	2543.77
							9/8/14	526.04	2543.07
						Static	10/28/14	529.30	2539.81
						Static	11/26/14	532.02	2537.09
						Static	12/16/14	535.02	2534.09
						Static	1/29/15	536.86	2532.25
						Static	2/27/15	534.31	2534.80
						Static	3/18/15	535.01	2534.10
						Static	4/7/15	535.70	2533.41
						Static	5/21/15	537.57	2531.54
						Static	6/1/15	539.22	2529.89
						Static	7/8/15	541.12	2527.99
						Static	8/17/15	541.14	2527.97
MH-28	903648	Sierrita	3524609.980	497471.427	3142.18	NA	11/14/06	401.10	2741.08
							2/19/07	401.10	2741.08
							4/17/07	402.32	2739.86
							7/16/07	403.18	2739.00
							10/11/07	403.00	2739.18
							1/21/08	402.72	2739.46
							4/8/08	401.90	2740.28
							7/1/08	401.48	2740.70
							10/6/08	402.17	2740.01
							1/7/09	402	2740.18
							4/7/09	401.06	2741.12
							10/13/09	401.10	2741.08
							4/15/10	395.65	2746.53
							8/12/10	398.60	2743.58
							10/12/10	399.00	2743.18
							5/17/11	396.89	2745.29
							10/4/11	397.90	2744.28
							5/21/12	398.64	2743.54
							10/9/12	403.77	2738.41
							4/2/13	405.08	2737.10
							10/21/13	407.88	2734.30
							1/3/14	408.01	2734.17
							3/12/14	411.69	2730.49
							4/9/14	412.72	2729.46
							5/14/14	412.74	2729.44
							6/24/14	412.76	2729.42
							7/7/14	414.90	2727.28
							8/8/14	414.60	2727.58
							9/9/14	414.19	2727.99
						Static	10/28/14	415.32	2726.86
						Static	11/4/14	415.92	2726.26
						Static	12/20/14	416.46	2725.72
						Static	1/7/15	416.16	2726.02
						Static	2/27/15	416.10	2726.08
						Static	3/26/15	414.87	2727.31
						Static	4/21/15	414.83	2727.35
						Static	5/21/15	414.80	2727.38
						Static	6/3/15	414.86	2727.32
						Static	7/6/15	416.53	2725.65
						Static	7/20/15	416.85	2725.33
						Static	8/25/15	417.35	2724.83

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MH-29	903649	Sierrita	3522805.518	497604.326	3123.15	NA	11/14/06	378.05	2745.10
							2/19/07	376.58	2746.57
							4/17/07	376.75	2746.40
							7/16/07	379.07	2744.08
							10/11/07	381.92	2741.23
							1/18/08	380.41	2742.74
							4/8/08	380.16	2742.99
							7/1/08	380.50	2742.65
							10/7/08	381.52	2741.63
							1/9/09	380.25	2742.90
							4/7/09	379.90	2743.25
							10/13/09	380.52	2742.63
							4/15/10	379.59	2743.56
							8/12/10	378.65	2744.50
							10/12/10	379.31	2743.84
							4/20/11	377.75	2745.40
							5/23/11	377.80	2745.35
							10/4/11	380.25	2742.90
							5/21/12	389.39	2733.76
							10/9/12	365.70	2757.45
							4/2/13	392.00	2731.15
							11/8/13	393.39	2729.76
							12/11/13	394.82	2728.33
							1/3/14	394.63	2728.52
							3/12/14	394.25	2728.90
							4/9/14	393.95	2729.20
							5/14/14	393.92	2729.23
							6/24/14	393.94	2729.21
							7/7/14	392.13	2731.02
							8/8/14	392.28	2730.87
							9/9/14	392.59	2730.56
						Static	10/28/14	400.46	2722.69
						Static	11/4/14	400.90	2722.25
						Static	12/21/14	401.30	2721.85
						Static	1/7/15	402.56	2720.59
						Static	2/27/15	402.89	2720.26
						Static	3/26/15	402.18	2720.97
						Static	4/21/15	402.40	2720.75
						Static	5/21/15	402.49	2720.66
						Static	6/3/15	402.52	2720.63
						Static	7/6/15	404.41	2718.74
						Static	8/25/15	404.64	2718.51
MH-30	903884	Sierrita	3525926.812	496682.307	3232.45	NA	11/10/06	422.78	2809.67
							1/9/07	421.65	2810.80
							4/9/07	419.32	2813.13
							7/11/07	416.85	2815.60
							10/2/07	416.95	2815.50
							1/18/08	417.34	2815.11
							4/8/08	418.12	2814.33
							7/1/08	417.71	2814.74
							10/6/08	417.11	2815.34
							1/7/09	416.37	2816.08
							4/7/09	415.10	2817.35
							4/15/10	412.03	2820.42
							5/17/11	412.18	2820.27
							4/26/12	420.61	2811.84
							6/6/13	427.36	2805.09
							3/12/14	429.01	2803.44
							4/8/14	429.46	2802.99
							5/14/14	429.47	2802.98
							6/24/14	429.48	2802.97
							7/29/14	430.12	2802.33
							8/8/14	430.23	2802.22
							9/9/14	430.41	2802.04
						Static	10/28/14	451.78	2780.67
						Static	11/26/14	430.82	2801.63
						Static	12/20/14	436.19	2796.26
						Static	1/29/15	440.11	2792.34
						Static	2/27/15	442.88	2789.57
						Static	3/26/15	431.34	2801.11
						Static	4/21/15	431.27	2801.18
						Static	5/21/15	431.31	2801.14
						Static	6/2/15	431.28	2801.17
						Static	7/23/15	431.55	2800.90
						Static	8/25/15	431.70	2800.75

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-1A	907342	Sierrita	3529331.380	500016.947	2967.65	NA	7/30/07	425.87	2541.78
							10/9/07	428.32	2539.33
							1/24/08	426.32	2541.33
							4/9/08	424.72	2542.93
							7/14/08	428.42	2539.23
							10/17/08	431.02	2536.63
							1/16/09	428.90	2538.75
							4/1/09	426.86	2540.79
							7/1/09	426.90	2540.75
							10/22/09	434.05	2533.60
							4/16/10	428.89	2538.76
							10/13/10	434.09	2533.56
							5/5/11	429.31	2538.34
							10/6/11	433.60	2534.05
							6/12/12	431.38	2536.27
							10/24/12	435.12	2532.53
							4/8/13	429.69	2537.96
							10/23/13	435.06	2532.59
							3/12/14	435.92	2531.73
							4/29/14	437.74	2529.91
							5/8/14	437.72	2529.93
							6/9/14	440.59	2527.06
							7/28/14	443.83	2523.82
							8/7/14	444.58	2523.07
							9/8/14	445.78	2521.87
						Static	10/28/14	448.18	2519.47
						Static	11/12/14	448.42	2519.23
						Static	12/16/14	448.63	2519.02
						Static	1/29/15	448.74	2518.91
						Static	2/27/15	448.80	2518.85
						Static	3/12/15	448.48	2519.17
						Static	4/22/15	449.85	2517.80
						Static	5/21/15	450.06	2517.59
						Static	6/1/15	450.21	2517.44
						Static	7/23/15	454.05	2513.60
						Static	8/25/15	455.41	2512.24
MO-2007-1B	907210	Sierrita	3529325.119	500021.574	2966.82	NA	7/30/07	425.67	2541.15
							10/9/07	429.20	2537.62
							1/24/08	426.41	2540.41
							4/9/08	425.05	2541.77
							7/14/08	428.98	2537.84
							10/17/08	431.64	2535.18
							1/16/09	429.05	2537.77
							4/1/09	427.23	2539.59
							7/1/09	427.70	2539.12
							10/22/09	434.90	2531.92
							4/16/10	429.13	2537.69
							10/13/10	434.47	2532.35
							5/5/11	429.65	2537.17
							10/6/11	434.10	2532.72
							6/12/12	431.95	2534.87
							10/24/12	435.62	2531.20
							4/8/13	429.03	2537.79
							10/23/13	435.71	2531.11
							3/12/14	436.56	2530.26
							4/29/14	438.64	2528.18
							5/8/14	438.67	2528.15
							6/9/14	441.65	2525.17
							7/28/14	444.85	2521.97
							8/7/14	445.81	2521.01
							9/8/14	446.61	2520.21
						Static	10/28/14	448.92	2517.90
						Static	11/12/14	449.05	2517.77
						Static	11/12/14	449.05	2517.77
						Static	12/16/14	449.19	2517.63
						Static	1/29/15	449.18	2517.64
						Static	2/27/15	449.19	2517.63
						Static	3/12/15	448.97	2517.85
						Static	4/22/15	450.52	2516.30
						Static	5/21/15	451.10	2515.72
						Static	6/1/15	451.56	2515.26
						Static	7/23/15	454.96	2511.86
						Static	8/25/15	456.16	2510.66

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-1C	907209	Sierrita	3529328.959	500013.405	2968.58	NA	7/30/07	423.87	2544.71
							10/9/07	427.02	2541.56
							1/24/08	424.00	2544.58
							4/9/08	423.30	2545.28
							7/14/08	426.73	2541.85
							10/21/08	429.49	2539.09
							1/16/09	426.75	2541.83
							4/1/09	424.90	2543.68
							7/1/09	428.81	2539.77
							10/22/09	427.60	2540.98
							4/16/10	426.93	2541.65
							10/13/10	431.88	2536.70
							4/20/11	427.32	2541.26
							10/6/11	431.80	2536.78
							6/12/12	429.40	2539.18
							10/24/12	433.08	2535.50
							4/8/13	426.50	2542.08
							10/23/13	433.06	2535.52
							3/12/14	434.69	2533.89
							4/29/14	437.08	2531.50
							5/8/14	436.98	2531.60
							6/9/14	440.40	2528.18
							7/28/14	443.49	2525.09
							8/7/14	444.30	2524.28
							9/8/14	445.02	2523.56
						Static	10/28/14	447.53	2521.05
						Static	11/12/14	447.62	2520.96
						Static	11/12/14	447.62	2520.96
						Static	12/16/14	447.70	2520.88
						Static	1/29/15	447.80	2520.78
						Static	2/27/15	447.84	2520.74
						Static	3/12/15	447.72	2520.86
						Static	4/22/15	449.56	2519.02
						Static	5/21/15	450.74	2517.84
						Static	6/1/15	451.18	2517.40
						Static	7/23/15	454.01	2514.57
						Static	8/25/15	455.18	2513.40
MO-2007-2	906765	Sierrita	3527621.102	497912.410	3153.83	NA	8/9/07	575.30	2578.53
							10/9/07	576.60	2577.23
							1/22/08	577.22	2576.61
							4/17/08	576.65	2577.18
							7/14/08	577.35	2576.48
							10/17/08	578.54	2575.29
							1/15/09	579.10	2574.73
							4/1/09	578.38	2575.45
							4/13/10	580.50	2573.33
							4/27/11	581.41	2572.42
							5/2/12	581.75	2572.08
							4/8/13	582.45	2571.38
							3/12/14	592.12	2561.71
							4/9/14	591.93	2561.90
							5/8/14	590.86	2562.97
							6/9/14	600.45	2553.38
							7/28/14	604.52	2549.31
							8/7/14	605.29	2548.54
							9/8/14	607.39	2546.44
						Static	10/28/14	610.63	2543.20
						Static	11/26/14	612.53	2541.30
						Static	12/16/14	613.88	2539.95
						Static	1/29/15	615.76	2538.07
						Static	2/17/15	616.21	2537.62
						Static	3/12/15	617.30	2536.53
						Static	4/7/15	618.25	2535.58
						Static	5/21/15	619.83	2534.00
						Static	6/1/15	620.29	2533.54
						Static	7/22/15	621.75	2532.08
						Static	8/14/15	622.49	2531.34

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-3B	906816	Sierrita	3528508.801	500522.491	2912.15	NA	9/10/07	359.38	2552.77
							10/9/07	359.55	2552.60
							1/21/08	357.13	2555.02
							4/16/08	357.10	2555.05
							7/14/08	358.71	2553.44
							10/22/08	361.77	2550.38
							1/19/09	358.95	2553.20
							4/1/09	357.70	2554.45
							7/27/09	361.21	2550.94
							10/22/09	365.50	2546.65
							3/11/10	359.36	2552.79
							4/14/10	360.30	2551.85
							7/21/10	362.20	2549.95
							10/26/10	364.82	2547.33
							1/18/11	361.99	2550.16
							5/4/11	361.59	2550.56
							7/6/11	363.80	2548.35
							11/22/11	365.10	2547.05
							1/11/12	363.36	2548.79
							5/8/12	362.09	2550.06
							8/7/12	363.87	2548.28
							1/8/13	362.33	2549.82
							4/9/13	360.13	2552.02
							5/21/13	359.84	2552.31
							8/27/13	365.16	2546.99
							10/24/13	366.19	2545.96
							1/7/14	364.11	2548.04
							3/12/14	368.18	2543.97
							4/16/14	369.34	2542.81
							5/14/14	369.35	2542.80
							6/23/14	369.35	2542.80
							7/1/14	375.64	2536.51
							7/1/14	375.64	2536.51
							8/8/14	377.48	2534.67
							9/9/14	378.82	2533.33
						Static	10/29/14	379.96	2532.19
						Static	11/13/14	381.17	2530.98
						Static	11/13/14	381.17	2530.98
						Static	12/17/14	382.07	2530.08
						Static	1/21/15	382.22	2529.93
						Static	2/27/15	382.40	2529.75
						Static	3/26/15	382.99	2529.16
						Static	4/27/15	384.26	2527.89
						Static	5/21/15	385.07	2527.08
						Static	6/2/15	385.86	2526.29
						Static	7/7/15	388.29	2523.86
						Static	8/14/15	390.46	2521.69

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-3C	906817	Sierrita	3528508.743	500529.713	2911.90	NA	7/5/07	356.30	2555.60
							10/10/07	359.85	2552.05
							1/21/08	356.74	2555.16
							4/15/08	357.18	2554.72
							7/14/08	359.84	2552.06
							10/21/08	361.99	2549.91
							1/19/09	359.61	2552.29
							4/1/09	358	2553.90
							7/22/09	362	2549.90
							10/22/09	362.80	2549.10
							3/11/10	359.62	2552.28
							4/14/10	360.45	2551.45
							7/21/10	367.50	2544.40
							10/26/10	365.13	2546.77
							1/18/11	361.62	2550.28
							5/4/11	361.61	2550.29
							7/6/11	363.75	2548.15
							10/5/11	365.50	2546.40
							1/11/12	363.36	2548.54
							5/7/12	362.35	2549.55
							8/7/12	364.49	2547.41
							10/10/12	366.50	2545.40
							1/8/13	362.59	2549.31
							4/9/13	360.45	2551.45
							8/27/13	365.47	2546.43
							10/24/13	366.79	2545.11
							1/7/14	364.19	2547.71
							3/12/14	368.09	2543.81
							4/16/14	369.60	2542.30
							5/14/14	369.63	2542.27
							6/23/14	369.65	2542.25
							7/1/14	376.55	2535.35
							7/1/14	376.55	2535.35
							8/8/14	377.79	2534.11
							9/9/14	379.28	2532.62
						Static	10/29/14	380.51	2531.39
						Static	11/13/14	381.92	2529.98
						Static	11/13/14	381.92	2529.98
						Static	12/17/14	383.22	2528.68
						Static	1/21/15	381.99	2529.91
						Static	2/27/15	382.14	2529.76
						Static	3/26/15	383.42	2528.48
						Static	4/27/15	384.85	2527.05
						Static	5/21/15	385.50	2526.40
						Static	6/2/15	386.10	2525.80
						Static	7/7/15	389.01	2522.89
						Static	8/14/15	391.60	2520.30

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-4A	907213	Sierrita	3525634.956	500383.682	2923.63	NA	10/9/07	307.67	2615.96
							1/22/08	303.85	2619.78
							4/16/08	305.46	2618.17
							7/17/08	308.05	2615.58
							10/22/08	309.65	2613.98
							1/19/09	306.28	2617.35
							4/2/09	306.69	2616.94
							7/1/09	307.92	2615.71
							10/26/09	309.10	2614.53
							1/26/10	308.52	2615.11
							4/14/10	308.53	2615.10
							7/21/10	311.05	2612.58
							10/13/10	312.00	2611.63
							1/19/11	308.82	2614.81
							5/4/11	309.68	2613.95
							7/6/11	311.75	2611.88
							10/5/11	312.50	2611.13
							1/17/12	310.05	2613.58
							5/7/12	310.42	2613.21
							8/13/12	313.30	2610.33
							10/23/12	314.17	2609.46
							2/21/13	311.70	2611.93
							4/10/13	312.68	2610.95
							7/10/13	316.31	2607.32
							10/22/13	318.07	2605.56
							1/10/14	316.34	2607.29
							3/12/14	319.78	2603.85
							4/8/14	321.40	2602.23
							5/6/14	321.36	2602.27
							6/23/14	321.33	2602.30
							7/8/14	329.06	2594.57
							8/8/14	331.16	2592.47
							9/9/14	332.77	2590.86
						Static	10/29/14	334.28	2589.35
						Static	11/12/14	335.68	2587.95
						Static	12/17/14	336.93	2586.70
						Static	1/14/15	337.62	2586.01
						Static	2/27/15	337.92	2585.71
						Static	3/26/15	339.75	2583.88
						Static	4/15/15	340.81	2582.82
						Static	5/21/15	340.96	2582.67
						Static	6/2/15	341.09	2582.54
						Static	7/8/15	345.02	2578.61
						Static	8/14/15	348.22	2575.41

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-4B	907212	Sierrita	3525613.952	500380.947	2923.57	NA	10/11/07	308.72	2614.85
							1/7/08	304.22	2619.35
							4/16/08	306.48	2617.09
							7/18/08	308.95	2614.62
							10/22/08	310.77	2612.80
							1/21/09	306	2617.57
							4/2/09	306.72	2616.85
							7/1/09	309.1	2614.47
							10/26/09	313.00	2610.57
							1/26/10	308.29	2615.28
							4/14/10	308.79	2614.78
							7/21/10	311.22	2612.35
							10/13/10	312.39	2611.18
							1/19/11	308.84	2614.73
							5/4/11	310.40	2613.17
							7/6/11	312.85	2610.72
							10/5/11	313.50	2610.07
							1/17/12	309.81	2613.76
							5/7/12	311.47	2612.10
							8/13/12	314.42	2609.15
							10/23/12	315.28	2608.29
							2/21/13	311.79	2611.78
							4/10/13	313.17	2610.40
							7/10/13	317.96	2605.61
							10/22/13	319.56	2604.01
							1/10/14	316.92	2606.65
							3/12/14	322.35	2601.22
							4/8/14	324.09	2599.48
							5/6/14	324.03	2599.54
							6/23/14	324.00	2599.57
							7/8/14	333.65	2589.92
							8/8/14	335.20	2588.37
							9/9/14	336.99	2586.58
						Static	10/29/14	338.56	2585.01
						Static	11/12/14	339.10	2584.47
						Static	12/17/14	339.66	2583.91
						Static	1/14/15	340.55	2583.02
						Static	2/27/15	340.70	2582.87
						Static	3/26/15	343.16	2580.41
						Static	4/15/15	345.50	2578.07
						Static	5/21/15	346.89	2576.68
						Static	6/2/15	348.27	2575.30
						Static	7/8/15	348.40	2575.17
						Static	8/14/15	348.79	2574.78

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-4C	907211	Sierrita	3525624.484	500382.217	2923.66	NA	8/12/07	307.13	2616.53
							10/12/07	308.78	2614.88
							1/22/08	304.90	2618.76
							4/16/08	306.75	2616.91
							7/18/08	309.10	2614.56
							10/22/08	311.41	2612.25
							1/21/09	306.80	2616.86
							4/2/09	311.49	2612.17
							7/1/09	311.68	2611.98
							10/26/09	311.30	2612.36
							1/26/10	309.53	2614.13
							4/14/10	309.58	2614.08
							7/21/10	312.75	2610.91
							10/13/10	313.49	2610.17
							1/19/11	309.94	2613.72
							5/4/11	311.53	2612.13
							7/6/11	314.05	2609.61
							10/5/11	314.80	2608.86
							1/12/12	311.00	2612.66
							5/7/12	312.37	2611.29
							8/13/12	315.55	2608.11
							10/23/12	316.47	2607.19
							2/21/13	312.89	2610.77
							4/10/13	314.14	2609.52
							7/10/13	318.94	2604.72
							10/22/13	320.63	2603.03
							1/10/14	318.02	2605.64
							3/12/14	323.88	2599.78
							4/8/14	325.83	2597.83
							5/6/14	325.81	2597.85
							6/23/14	325.84	2597.82
							7/8/14	335.70	2587.96
							8/8/14	336.88	2586.78
							9/9/14	338.81	2584.85
						Static	10/29/14	340.60	2583.06
						Static	11/12/14	341.00	2582.66
						Static	12/17/14	341.53	2582.13
						Static	1/14/15	342.40	2581.26
						Static	2/27/15	342.47	2581.19
						Static	3/26/15	344.92	2578.74
						Static	4/15/15	347.40	2576.26
						Static	5/21/15	349.11	2574.55
						Static	6/2/15	350.79	2572.87
						Static	7/8/15	350.81	2572.85
						Static	8/14/15	350.93	2572.73

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-5B	907456	Sierrita	3523743.376	500013.850	2944.35	NA	10/12/07	268.27	2676.08
							1/7/08	262.09	2682.26
							4/17/08	266.22	2678.13
							7/24/08	268.61	2675.74
							10/23/08	272.16	2672.19
							1/21/09	265.83	2678.52
							4/2/09	269.20	2675.15
							1/25/10	268.30	2676.05
							4/27/10	268.02	2676.33
							12/10/10	272.31	2672.04
							6/24/11	275.70	2668.65
							11/21/11	273.28	2671.07
							6/20/12	277.46	2666.89
							11/6/12	280.33	2664.02
							6/12/13	288.32	2656.03
							10/24/13	287.84	2656.51
							3/12/14	287.24	2657.11
							4/29/14	294.80	2649.55
							5/14/14	294.78	2649.57
							6/23/14	294.76	2649.59
							7/28/14	299.29	2645.06
							8/7/14	301.38	2642.97
							9/8/14	302.31	2642.04
						Static	10/15/14	300.14	2644.21
						Static	11/26/14	300.87	2643.48
						Static	12/17/14	301.43	2642.92
						Static	1/29/15	301.89	2642.46
						Static	2/27/15	302.08	2642.27
						Static	3/18/15	303.65	2640.70
						Static	4/28/15	307.69	2636.66
						Static	5/21/15	309.80	2634.55
						Static	6/2/15	311.87	2632.48
						Static	7/24/15	311.80	2632.55
						Static	8/25/15	312.19	2632.16
MO-2007-5C	907457	Sierrita	3523736.459	500014.152	2944.91	NA	8/23/07	294.04	2650.87
							10/13/07	289.70	2655.21
							1/7/08	285.09	2659.82
							4/17/08	281.52	2663.39
							7/24/08	282.42	2662.49
							10/23/08	285.03	2659.88
							1/22/09	281.38	2663.53
							5/13/09	282.35	2662.56
							10/27/09	284.70	2660.21
							4/27/10	276.49	2668.42
							12/10/10	278.31	2666.60
							5/24/11	278.21	2666.70
							11/21/11	280.98	2663.93
							6/18/12	281.66	2663.25
							11/6/12	286.84	2658.07
							6/13/13	292.47	2652.44
							11/12/13	292.49	2652.42
							3/12/14	291.79	2653.12
							5/6/14	298.74	2646.17
							6/23/14	298.76	2646.15
							7/28/14	304.81	2640.10
							8/7/14	305.34	2639.57
							9/8/14	305.94	2638.97
						Static	10/15/14	305.76	2639.15
						Static	11/26/14	305.76	2639.15
						Static	12/17/14	306.05	2638.86
						Static	1/29/15	306.20	2638.71
						Static	2/27/15	306.28	2638.63
						Static	3/18/15	307.24	2637.67
						Static	4/28/15	311.45	2633.46
						Static	5/21/15	314.13	2630.78
						Static	6/2/15	316.83	2628.08
						Static	7/24/15	316.72	2628.19
						Static	8/25/15	316.75	2628.16

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-6A	907607	Sierrita	3521842.050	498367.161	3043.37	NA	10/2/07	303.60	2739.77
							1/22/08	303.27	2740.10
							4/18/08	304.02	2739.35
							7/24/08	305.81	2737.56
							10/23/08	307.85	2735.52
							1/22/09	305.87	2737.50
							4/2/09	304.87	2738.50
							7/22/09	307.15	2736.22
							10/26/09	307.00	2736.37
							3/11/10	306.15	2737.22
							4/21/10	306.44	2736.93
							8/10/10	309.12	2734.25
							10/26/10	308.95	2734.42
							1/18/11	307.78	2735.59
							5/5/11	308.13	2735.24
							7/7/11	309.90	2733.47
							10/6/11	311.10	2732.27
							1/11/12	311.24	2732.13
							6/12/12	314.95	2728.42
							8/13/12	317.93	2725.44
							10/18/12	316.94	2726.43
							1/8/13	321.98	2721.39
							4/9/13	323.05	2720.32
							7/10/13	326.23	2717.14
							10/22/13	329.74	2713.63
							1/6/14	329.94	2713.43
							3/12/14	329.85	2713.52
							4/9/14	330.14	2713.23
							5/14/14	330.12	2713.25
							6/23/14	330.08	2713.29
							7/8/14	331.19	2712.18
							8/7/14	331.41	2711.96
							9/8/14	331.78	2711.59
						Static	10/29/14	331.92	2711.45
						Static	11/26/14	332.08	2711.29
						Static	12/2/14	331.73	2711.64
						Static	1/8/15	332.23	2711.14
						Static	2/27/15	332.26	2711.11
						Static	3/18/15	331.64	2711.73
						Static	4/16/15	332.31	2711.06
						Static	5/21/15	332.86	2710.51
						Static	6/2/15	333.38	2709.99
						Static	7/2/15	335.11	2708.26
						Static	8/25/15	335.91	2707.46

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2007-6B	907606	Sierrita	3521849.495	498367.887	3043.05	NA	10/4/07	319.17	2723.88
							1/21/08	314.78	2728.27
							4/17/08	314.75	2728.30
							7/24/08	317.04	2726.01
							10/23/08	318.17	2724.88
							1/22/09	316.58	2726.47
							4/2/09	316.05	2727.00
							7/22/09	317.49	2725.56
							10/26/09	319.37	2723.68
							3/11/10	316.58	2726.47
							4/21/10	316.64	2726.41
							8/10/10	318.40	2724.65
							10/26/10	318.66	2724.39
							1/18/11	317.52	2725.53
							5/5/11	317.00	2726.05
							7/7/11	318.58	2724.47
							10/6/11	319.92	2723.13
							1/11/12	320.03	2723.02
							6/12/12	325.69	2717.36
							8/13/12	329.12	2713.93
							10/18/12	332.52	2710.53
							1/8/13	333.92	2709.13
							4/9/13	335.80	2707.25
							7/10/13	337.52	2705.53
							10/22/13	340.62	2702.43
							1/6/14	340.62	2702.43
							3/12/14	340.61	2702.44
							4/9/14	340.98	2702.07
							5/14/14	341.00	2702.05
							6/23/14	341.04	2702.01
							7/8/14	341.95	2701.10
							8/7/14	342.50	2700.55
							9/8/14	342.88	2700.17
						Static	10/29/14	342.96	2700.09
						Static	11/26/14	343.11	2699.94
						Static	12/2/14	345.25	2697.80
						Static	1/8/15	346.10	2696.95
						Static	2/27/15	346.87	2696.18
						Static	3/18/15	346.11	2696.94
						Static	4/16/15	347.00	2696.05
						Static	5/21/15	347.39	2695.66
						Static	6/2/15	347.75	2695.30
						Static	7/2/15	350.24	2692.81
						Static	8/25/15	351.57	2691.48

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
MO-2009-1	910458	Sierrita	3523369.438	500534.089	2890.78	NA	6/2/09	226.35	2664.43
							7/29/09	222.46	2668.32
							11/3/09	225.90	2664.88
							1/25/10	212.26	2678.52
							4/20/10	219.94	2670.84
							8/10/10	227.88	2662.90
							12/15/10	215.16	2675.62
							2/2/11	214.99	2675.79
							6/16/11	226.45	2664.33
							8/31/11	223.97	2666.81
							12/1/11	219.96	2670.82
							1/11/12	222.55	2668.23
							5/9/12	225.63	2665.15
							8/15/12	234.23	2656.55
							11/29/12	229.30	2661.48
							1/8/13	229.63	2661.15
							4/10/13	233.98	2656.80
							7/11/13	238.53	2652.25
							10/16/13	237.57	2653.21
							1/6/14	236.58	2654.20
							3/12/14	237.34	2653.44
							4/24/14	248.16	2642.62
							5/6/14	248.19	2642.59
							6/23/14	248.22	2642.56
							7/8/14	252.36	2638.42
							7/8/14	252.36	2638.42
							8/7/14	254.35	2636.43
							9/8/14	256.45	2634.33
						Static	10/29/14	258.27	2632.51
						Static	11/26/14	259.64	2631.14
						Static	12/2/14	248.01	2642.77
						Static	12/2/14	248.01	2642.77
						Static	1/13/15	248.22	2642.56
						Static	2/27/15	250.14	2640.64
						Static	3/26/15	251.42	2639.36
						Static	4/15/15	262.15	2628.63
						Static	5/21/15	266.63	2624.15
						Static	6/2/15	269.42	2621.36
						Static	7/7/15	268.50	2622.28
						Static	8/14/15	268.44	2622.34

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
NP-2	624028	HGC	3528517.116	500582.904	2906.56	NA	11/6/07	355.10	2551.46
							1/11/08	353.67	2552.89
							4/17/08	352.20	2554.36
							7/11/08	355.10	2551.46
							10/9/08	356.24	2550.32
							2/9/09	355.00	2551.56
							4/24/09	354.80	2551.76
							9/22/09	358.90	2547.66
							12/31/09	358.57	2547.99
							2/17/10	357.20	2549.36
							4/22/10	356.38	2550.18
							8/5/10	357.93	2548.63
							10/25/10	360.80	2545.76
							1/19/11	358.68	2547.88
							5/3/11	358.30	2548.26
							7/18/11	359.72	2546.84
							12/5/11	360.27	2546.29
							3/21/12	358.10	2548.46
							6/18/12	359.28	2547.28
							8/15/12	360.45	2546.11
							11/29/12	360.79	2545.77
							2/20/13	356.92	2549.64
							6/17/13	358.19	2548.37
							8/27/13	360.56	2546.00
							10/30/13	362.56	2544.00
							1/7/14	361.24	2545.32
							3/12/14	363.18	2543.38
							4/23/14	364.29	2542.27
							5/14/14	364.22	2542.34
							6/23/14	364.24	2542.32
							7/1/14	368.67	2537.89
							8/8/14	370.36	2536.20
							9/9/14	372.75	2533.81
						Static	10/13/14	374.58	2531.98
						Static	11/26/14	375.76	2530.80
						Static	12/17/14	376.89	2529.67
						Static	1/14/15	377.12	2529.44
						Static	2/27/15	377.25	2529.31
						Static	3/26/15	377.65	2528.91
						Static	4/28/15	DRY	NA
						Static	5/21/15	DRY	NA
						Static	6/2/15	DRY	NA
						Static	7/23/15	DRY	NA
						Static	8/25/15	DRY	NA
PS-1	220861	Sierrita	3529128.00	499148.00	3040.665	NA	3/13/14	Obstructed	NA
							5/8/14	516.79	2523.88
							5/15/14	516.79	2523.88
							5/22/14	525.44	2515.23
							6/5/14	525.25	2515.42
							7/6/14	527.00	2513.67
							7/31/14	527.40	2513.27
							8/27/14	527.40	2513.27
						Dynamic	10/1/14	517.95	2522.72
						Dynamic	11/4/14	531.19	2509.48
						Dynamic	12/2/14	532.05	2508.62
						Dynamic	1/4/15	532.50	2508.17
						Dynamic	2/4/15	533.20	2507.47
						Dynamic	3/3/15	533.60	2507.07
						Dynamic	4/9/15	534.15	2506.52
						Dynamic	5/2/15	534.95	2505.72
						Dynamic	6/9/15	536.00	2504.67
						Dynamic	7/6/15	537.05	2503.62
						Dynamic	8/18/15	538.65	2502.02

TABLE 3
Compilation of Groundwater Elevation Data

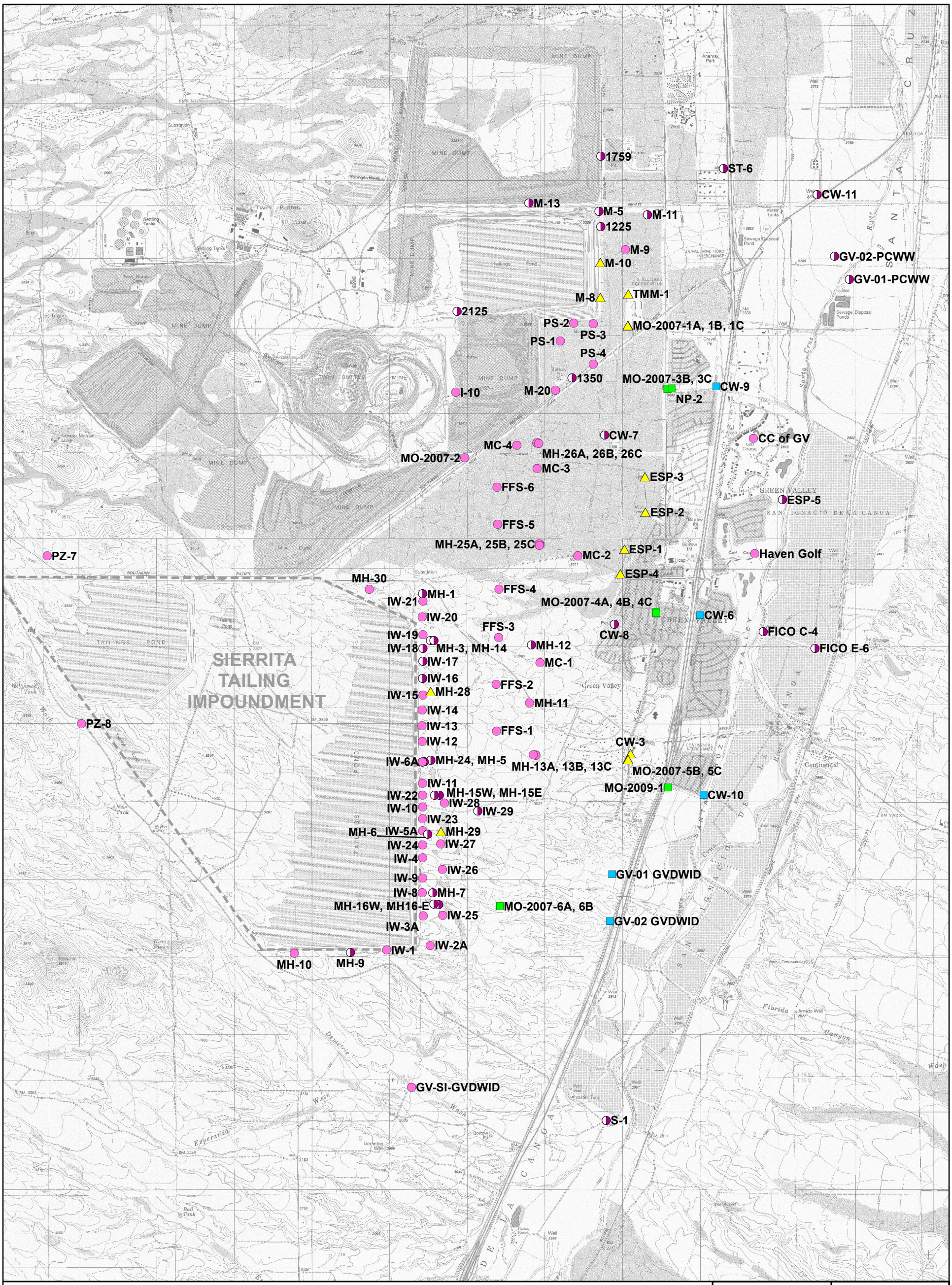
Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
PS-2	220862	Sierrita	3529357.00	499318.00	3027.673	NA	1/15/14	507.18	2520.49
							1/22/14	494.54	2533.13
							3/13/14	510.78	2516.89
							5/8/14	514.76	2512.91
							6/5/14	514.95	2512.72
							7/6/14	516.80	2510.87
							7/31/14	518.30	2509.37
							8/27/14	519.40	2508.27
						Dynamic	10/1/14	507.20	2520.47
						Dynamic	11/4/14	523.35	2504.32
						Dynamic	12/2/14	523.80	2503.87
						Dynamic	1/4/15	524.60	2503.07
						Dynamic	2/4/15	524.50	2503.17
						Dynamic	3/3/15	524.70	2502.97
						Dynamic	4/9/15	525.20	2502.47
						Dynamic	5/2/15	526.10	2501.57
						Dynamic	6/9/15	527.00	2500.67
						Dynamic	7/6/15	528.20	2499.47
						Dynamic	8/18/15	529.80	2497.87
PS-3	220863	Sierrita	3529350.00	499570.00	3006.351	NA	1/15/14	488.84	2517.51
							1/22/14	488.23	2518.12
							3/13/14	491.86	2514.49
							5/8/14	495.82	2510.53
							6/5/14	495.90	2510.45
							7/6/14	497.70	2508.65
							7/31/14	498.90	2507.45
							8/27/14	500.25	2506.10
						Dynamic	10/1/14	486.45	2519.90
						Dynamic	11/4/14	503.75	2502.60
						Dynamic	12/2/14	504.20	2502.15
						Dynamic	1/4/15	504.55	2501.80
						Dynamic	2/4/15	504.45	2501.90
						Dynamic	3/3/15	504.75	2501.60
						Dynamic	4/9/15	505.50	2500.85
						Dynamic	5/2/15	506.35	2500.00
						Dynamic	6/9/15	507.50	2498.85
						Dynamic	7/6/15	508.92	2497.43
						Dynamic	8/18/15	510.50	2495.85
PS-4	220864	Sierrita	3528830.00	499153.00	3045.74	NA	1/15/14	513.92	2531.82
							1/22/14	514.38	2531.36
							3/13/14	508.14	2537.60
							5/8/14	522.58	2523.16
							6/5/14	523.05	2522.69
							7/6/14	525.25	2520.49
							7/31/14	526.30	2519.44
							8/27/14	527.50	2518.24
						Dynamic	10/1/14	520.05	2525.69
						Dynamic	11/4/14	531.80	2513.94
						Dynamic	12/2/14	532.60	2513.14
						Dynamic	1/4/15	524.20	2521.54
						Dynamic	2/4/15	534.50	2511.24
						Dynamic	3/3/15	535.05	2510.69
						Dynamic	4/9/15	535.65	2510.09
						Dynamic	5/2/15	536.45	2509.29
						Dynamic	6/9/15	537.60	2508.14
						Dynamic	7/6/15	538.95	2506.79
						Dynamic	8/18/15	540.10	2505.64
PZ-7	561870	Sierrita	3526357.485	492533.171	3549.17	NA	11/16/06	139.55	3409.62
							1/12/07	139.50	3409.67
							4/9/07	139.65	3409.52
							7/24/07	139.76	3409.41
							10/16/07	139.49	3409.68
							1/7/08	139.25	3409.92
							4/28/08	139.59	3409.58
							7/11/08	139.71	3409.46
							10/14/08	139.73	3409.44
							2/9/09	139.79	3409.38
							4/6/09	139.80	3409.37
							4/23/10	140.22	3408.95
							5/18/11	140.62	3408.55
							6/6/12	136.67	3412.50
							6/10/13	136.91	3412.26
							4/8/14	135.75	3413.42
						Static	4/21/15	136.49	3412.68

TABLE 3
Compilation of Groundwater Elevation Data

Well Name	ADWR 55 Registry No.	Survey Source	UTM North (m)	UTM East (m)	Measuring Point Elevation (ft amsl)	Water Level Measurement Conditions	Date	Depth to Water (ft)	Groundwater Elevation (ft amsl)
PZ-8	561866	Sierrita	3524196.243	492972.681	3480.36	NA	11/14/06	206.30	3274.06
							1/10/07	207.42	3272.94
							4/17/07	198.52	3281.84
							7/12/07	209.46	3270.90
							10/5/07	205.30	3275.06
							1/3/08	212.94	3267.42
							4/8/08	217.43	3262.93
							7/1/08	221.70	3258.66
							10/8/08	222.49	3257.87
							1/8/09	223.63	3256.73
							4/8/09	224.72	3255.64
							4/20/10	227.87	3252.49
							4/19/11	228.73	3251.63
							4/25/12	229.66	3250.70
							6/10/13	230.86	3249.50
							4/23/14	232.32	3248.04
							4/24/14	232.59	3247.77
						Static	4/14/15	234.11	3246.25
S-1	623111	Sierrita	3519084.973	499736.647	2920	Static	6/19/15	167.21	2752.79
ST-6 (POE-006)	608530	Sierrita	3531352.523	501247.709	2855.88	Static	6/18/15	356.25	2499.63
TMM-1	616156	HGC	3529736.231	500018.323	2967.08	NA	6/18/07	432.50	2534.58
							6/19/07	432.00	2535.08
							10/4/07	437.58	2529.50
							1/10/08	435.75	2531.33
							4/18/08	433.30	2533.78
							7/9/08	437.37	2529.71
							10/9/08	439.80	2527.28
							2/4/09	436.62	2530.46
							4/21/09	433.35	2533.73
							10/14/09	444.00	2523.08
							4/20/10	436.99	2530.09
							10/6/10	442.98	2524.10
							4/21/11	437.13	2529.95
							12/21/11	435.50	2531.58
							5/15/12	438.57	2528.51
							11/23/12	443.30	2523.78
							6/19/13	439.14	2527.94
							10/29/13	443.13	2523.95
							4/23/14	442.13	2524.95
						Static	10/2/14	451.94	2515.14
						Static	4/28/15	DRY	--

Notes:
[1] Well was not pumping, however there may be residual drawdown due to pumping history at the well
ADWR = Arizona Department of Water Resources
CWC = Community Water Company of Green Valley
ft amsl = feet above mean sea level
GVDWID = Green Valley Domestic Water Improvement District
HGC = Hydro Geo Chem, Inc.
m = meters
ND = No elevation data
NR = No record
NA = Not applicable
Sierrita = Freeport-McMoRan Sierrita Inc.
TBPI = Twin Buttes Properties, Inc.
UTM = Universal Transverse Mercator, Zone 12 North American Datum 1983 (NAD83)
Anomalous data removed for NP-2 (6/7/07; 8/13/07), MO-2007-3B (10/10/12), and MO-2009-1 (8/27/13)

FIGURES



Legend

- Annual Sampling (Second Quarter)
- Annual Water Level Only (Second Quarter)
- Semi-Annual Sampling (Second and Fourth Quarters)
- Quarterly Sampling - Sentinel Well
- Quarterly Sampling - Drinking Water Supply Well

Date	File ID
9/28/15	055039-006C

CLEAR CREEK ASSOCIATES

FIGURE 1
Sampling Locations for Post-Implementation Groundwater Monitoring

M-9 57.8
M-10 166
M-8 20.6
250
PS-3 1010
PS-2 1000
PS-1 1140
PS-4 1230/1240
M-20 1720
1500
MC-4 1230
MO-2007-2 255
MC-3 1390
FFS-6 1210
FFS-5 1390
MC-2 1200
FFS-4 1230
MH-30 1750
IW-20 1700
IW-19 1910
FFS-3 1490
MH-14 1650
MC-1 1710
MH-28 1820
IW-15 1860
IW-14 1930
IW-13 1860/1930
IW-12 1600
FFS-2 1800/1800
MH-11 1550
IW-11 1790
IW-22 1770
IW-10 1870
IW-23 1890
IW-28 1730
IW-29 1750
MH-29 1700
IW-27 1670/1710
IW-24 1760
IW-26 1630
IW-8 1800
MH-16W 1830
IW-3A 1820
IW-1 1140
MH-10 1560
IW-2A 150
500
1000
1500
1500
1000
500
250
GV-SI-GVDWID 8.35

MO-2007-1A, 1B, 1C
460-600 18.5
740-900 987/1000
1020-1180 42.4

MH-26A, 26B, 26C
418-538UAS
620-730 1650
780-900 970

MH-25A, 25B, 25C
410-530 12.3
580-680 1580
731-901, 951-1081 UAS

PZ-7 434
PZ-8 454

SIERRITA TAILING IMPOUNDMENT

MO-2007-3B, 3C
740-940 < 0.5
1160-1320 40.1

CW-9 47.0
CC of GV 102
ESP-3 36.4
ESP-2 29.1
Haven Golf 112
ESP-4 423
CW-6 91.1

MO-2007-4A, 4B, 4C
360-560 39.7/39.1
669-939 35.1
1090-1130 77.3

MH-13A, 13B, 13C
300-650 1100
750-950 903
1050-1350 0.78

CW-3, MO-2007-5B, 5C
182-500 71.4/70.0
660-960 502
1050-1350 167

MO-2009-1 104
CW-10 56.7/57.5

GV-01 GVDWID 37.6
GV-02 GVDWID 58.7

MO-2007-6A, 6B
310-390, 430-610 19.6
780-940 64.3

DUVAL MINE RD

Legend

250 mg/L Sulfate Concentration Contour

IW-10 Well ID
1870 Sulfate Concentration (mg/L)
Duplicate results separated by "/"

Well Symbols
- Well
- Sentinel Well
- Drinking Water Supply Well

Scale
0 2,000 4,000 8,000
Feet

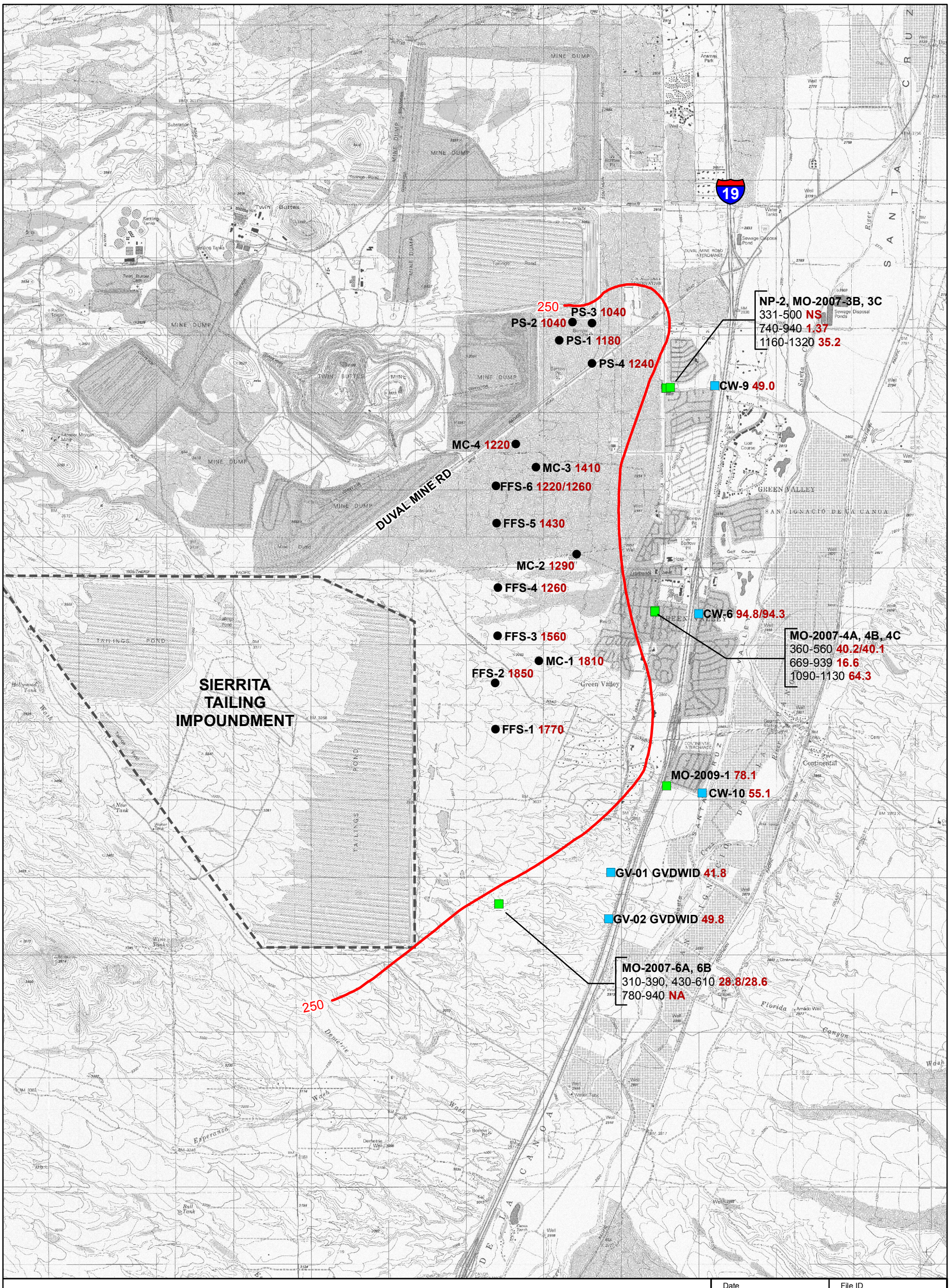
NOTE:
Projection:UTM NAD83 Zone 12N
UAS = Unable to Sample

Co-Located Wells
Screened Interval (ft bls):**Sulfate Concentration (mg/L)**

Date	File ID
7/29/15	055039-147

CLEAR CREEK ASSOCIATES

FIGURE 2
Sulfate Concentrations
in Groundwater
Second Quarter 2015



Legend

250 mg/L Sulfate Concentration Contour

FFS-1 Well ID
1850 Sulfate Concentration (mg/L)
Duplicate results separated by "/"

Well Symbols
- Well
- Sentinel Well
- Drinking Water Supply Well

Scale
0 2,000 4,000 8,000
Feet

Co-Located Wells
Screened Interval (ft bls):**Sulfate Concentration (mg/L)**

NOTE:
Projection:UTM NAD83 Zone 12N
NS = No Sample

Date	File ID
9/16/2015	055039-152

CLEAR CREEK ASSOCIATES

FIGURE 3
Sulfate Concentrations in Groundwater
Third Quarter 2015

1759 2505.42
ST-6 2499.63
CW-11 2460.03
M-13 2507.29
M-5 2506.71
M-11 2505.71
1225 2507.52
MO-2007-1A, 1B, 1C
460-600 2517.44
740-900 2515.26
1020-1180 2517.40
M-9 2512.52
GV-02-PCWW 2610.40
M-10 2514.22
GV-01-PCWW 2603.50
M-8 2512.97
2125 2517.00
PS-3 2498.85
PS-2 2500.67
PS-1 2504.67
PS-4 2508.14
NP-2, MO-2007-3B, 3C
331-500 UTM
740-940 2526.29
1160-1320 2525.80
1350 2521.46
MH-26A, 26B, 26C
418-538 UTM
620-730 2534.71
780-900 2529.89
I-10 2523.01
M-20 2524.69
CW-9 2502.83
CW-7 2525.75
MC-4 2526.94
MO-2007-2 2533.54
MC-3 2530.98
ESP-3 2541.95
FFS-6 2522.69
ESP-5 2578.90
MH-25A, 25B, 25C
410-530 2553.38
580-680 2555.28
731-901, 951-1081 UTM
FFS-5 2524.73
ESP-2 2555.19
PZ-7 3412.68
MC-2 2555.08
ESP-4 2564.97
MH-30 2801.17
MH-1 2718.60
FFS-4 2556.50
IW-21 2737.67
IW-20 2733.41
CW-8 2573.26
CW-6 2583.00
C-4 2573.49
IW-19 2723.99
MH-3 2710.47
FFS-3 2574.40
MH-12 UTM
E-6 2581.85
IW-18 UTM
MH-14 2705.53
IW-17 2717.17
MC-1 2578.37
MO-2007-4A, 4B, 4C
360-560 2582.54
669-939 2575.30
1090-1130 2572.87
IW-16 2748.77
FFS-2 2590.61
SIERRITA
TAILING
IMPOUNDMENT
IW-15 2743.82
MH-28 2727.32
MH-11 2620.24
IW-14 2746.37
IW-13 2744.55
FFS-1 2639.85
PZ-8 3246.25
IW-12 2689.58
CW-3, MO-2007-5B, 5C
182-500 2637.60
660-960 2632.48
1050-1350 2628.08
IW-6A 2728.46
MH-24 2726.34
MH-5 2715.02
IW-11 2624.10
MH-15W 2715.71
MO-2009-1 2621.36
IW-22 2728.15
MH-15E 2710.06
CW-10 2637.55
IW-10 UTM
IW-28 2676.21
IW-23 2748.58
IW-29 2650.20
MH-13A, 13B, 13C
300-650 2655.21
750-950 2649.99
1050-1350 2645.59
IW-5A 2701.42
MH-29 2720.63
MH-6 2730.77
IW-27 2649.23
IW-24 2753.49
IW-4 2714.96
IW-26 2660.73
IW-9 2737.29
MH-7 2718.60
IW-8 2677.59
MH-16E 2718.08
MH-16W 2718.81
IW-3A 2680.45
IW-25 2652.96
GV-02 GVDWID 2707.37
IW-2A 2702.28
MH-10 2813.75
MH-9 2774.06
IW-1 2702.19
MO-2007-6A, 6B
310-390 2709.99
780-940 2695.30
GV-SI-GVDWID 2768.27
S-1 2752

Legend

- CW-6 2583.00 — Well ID, Groundwater Elevation (ft amsl)
- 200 ft Groundwater Elevation Contour (ft amsl)
- 20 ft Groundwater Elevation Contour (ft amsl)
- 10 ft Groundwater Elevation Contour (ft amsl)
- Groundwater Depression
- Co-Located Wells
- Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

0 2,000 4,000 8,000
Feet

Well labels

- Wells with Static Water Levels
- Wells with Dynamic Water Levels
- UTM = Unable to Measure

CLEAR CREEK ASSOCIATES

File ID	Date
055039-148	9/25/15

FIGURE 4
Groundwater Elevations
Second Quarter 2015

M-9 2504.00

M-8 UTM

MO-2007-1A, 1B, 1C
460-600 2512.24
740-900 2510.66
1020-1180 2513.40

PS-2 2497.87

PS-3 2495.85

PS-1 2502.02

PS-4 2505.64

NP-2, MO-2007-3B, 3C
331-500 UTM
740-940 2521.69
1160-1320 2520.30

MH-26A, 26B, 26C
418-538 UTM
620-730 UTM
780-900 2527.97

MC-4 2513.34

MO-2007-2 2531.34

MH-25A, 25B, 25C
410-530 2551.52
580-680 2553.80
731-901, 951-1081 UTM

MC-3 2524.73

FFS-6 2521.50

ESP-2 2550.00

FFS-5 2519.73

MC-2 2543.88

MH-30 2800.75

FFS-4 2401.32

MH-14 2700.97

FFS-3 2553.90

MH-12 UTM

MH-3 2705.29

MC-1 2576.10

MO-2007-4A, 4B, 4C
360-560 2575.41
669-939 2574.78
1090-1130 2572.73

FFS-2 2585.61

MH-28 2724.83

MH-11 2614.65

CW-3, MO-2007-5B, 5C
182-500 2633.13
660-960 2632.16
1050-1350 2628.16

FFS-1 2600.90

MO-2009-1 2622.34

CW-10 2632.20

MH-15W, 15E 2697.99, 2694.90

MH-29 2718.51

MH-13A, 13B, 13C
300-650 2650.96
750-950 2644.65
1050-1350 2642.02

MH-16W, 16E 2712.56, 2710.99

MH-9 2774.02

MO-2007-6A, 6B
310-390 2707.46
780-940 2691.48

2500
2520
2540
2560
2580
2600
2620
2640
2660
2680
2700
2720
2740
2760
2780
2800

Legend

- CW-3 2643.50 — Well with Groundwater Elevation (ft amsl)
- Groundwater Elevation Contour (ft amsl)
- Groundwater Depression

Co-Located Wells
Screened Interval (ft bls): **Groundwater Elevation (ft amsl)**

NOTE:
The groundwater elevation contour intervals are irregular.

0 2,000 4,000 8,000
Feet

Well labels

- Wells with Static Water Levels
- Wells with Dynamic Water Levels
UTM = Unable to Measure

CLEAR CREEK ASSOCIATES

File ID
055039-151

Date
9/21/2015

FIGURE 5
Groundwater Elevations
Third Quarter 2015

APPENDIX A

DATA VERIFICATION REPORT

APPENDIX A

DATA VERIFICATION REPORT

Prepared for:

FREEPORT-MCMORAN SIERRITA INC.
6200 West Duval Mine Road
Green Valley, Arizona 85614

Prepared by:

CLEAR CREEK ASSOCIATES, P.L.C.
221 North Court Avenue, Suite 101
Tucson, Arizona 85701

October 23, 2015

TABLE OF CONTENTS

1. INTRODUCTION

This report summarizes the data verification review of groundwater samples collected and analyzed during the second and third quarters of 2015 by Freeport-McMoRan Sierrita Inc. (Sierrita) pursuant to the Mitigation Order on Consent Docket No. P-50-06. All analytical results for groundwater samples collected during this reporting period were provided to Sierrita by ACZ Laboratories, Inc. (ACZ). Sierrita provided the water quality data to Clear Creek Associates for preparation of the Semiannual Groundwater Monitoring Report.

This report does not review field sampling or sample handling procedures for Sierrita. Sierrita collected samples following the methods in the *Quality Assurance/Quality Control (QA/QC) Plan for Water Monitoring, Phelps Dodge Sierrita, Inc.* (PDSI, 2005) in Appendix E of the Work Plan (Hydro Geo Chem, Inc. [HGC], 2006). Laboratory QA/QC data are evaluated according to the data quality indicators (DQIs) given in the Quality Assurance Project Plan (QAPP) (HGC, 2006).

Appendix B of the main text of this report contains laboratory reports for samples collected by Sierrita, including Chain of Custody (COC) forms, laboratory correspondence, QC summaries, data qualifiers, and any case narratives. The analytical results for all 119 samples collected are contained in 15 reports with the ACZ Project numbers in the following table.

The results of the internal QA/QC tests performed by ACZ are presented with the laboratory reports included in Appendix B. Based on the results of surrogate spike recoveries, matrix spike recovery, and matrix spike duplicate tests, ACZ did not advise any modifications to be made regarding the usability and data validation status of the laboratory test results.

ACZ Project ID	Wells Reported
Second Quarter 2015 Number of wells sampled: 77 Number of well samples collected (including duplicates and multiple samples from one well): 87 Number of duplicate samples collected: 8 Number of reanalyzed samples: 1 Total number of analyses: 88	
L23631	IW-20, IW-19, IW-15, IW-14, IW-13, IW-12, IW-11, IW-22, IW-29, IW-28, IW-10, IW-23, IW-27, IW-24, IW-26, IW-8, IW-3A, IW-2A, IW-1, PS-3
L23632	PS-2, PS-1, PS-4, MC-4, MC-3, FFS-6, FFS-5, MC-2, FFS-4, FFS-3, MC-1, FFS-2, DUP20150401A, DUP20150401B, DUP20150401C, DUP20150402A,
L23676	M-9, M-10, M-8, MO-2007-2, MH-26B, MH-26C, MH-25A, MH-25B,
L23875	CW-10, CW-9, CW-6, MH-10, PZ-8, GV-1, GV-2, SIWELL, MO-2007-4B, MO-2007-4C, MO-2007-4A, MO-2009-1, MO-2007-6A, MO-2007-6B, MH-11, DUP20150414A, DUP20150415A,
L23961	MH-14, MH-28, MH-29, MH-16W
L23962	PZ-7, MH-30, MO-2007-1B, MO-2007-1A, MO-2007-1C, MH-13A, MH-13B, MH-13C, DUP20150422A,
L24094	MO-2007-3B, MO-2007-3C, M-20, MO-2007-5B, MO-2007-5C
L24352	CW-3, ESP-4, ESP-2, ESP-3, CCGV, CCGV-2, HAVENGOLF, DUP20150511A
L25181	HAVENGOLF - REANALYSIS
Third Quarter 2015 Number of wells sampled: 26 Number of well samples collected (including duplicates and multiple samples from one well): 30 Number of duplicate samples collected: 4 Number of reanalyzed samples: 1 Total number of analyses: 31	
L25249	MO-20076A, DUP20150702A
L25332	MO-2007-3B, MO-2007-3C, MO-2009-1, MO-2007-4B, MO-2007-4C, MO-2007-4A, DUP20150708A
L25570	PS-1, PS-2, PS-3, PS-4, FFS-1, FFS-2, FFS-3, FFS-4, FFS-5, FFS-6, MC-1, MC-2, MC-3, MC-4, DUP20150715A
L25671	GV-1, GV-2
L25709	CW-6, CW-9, CW-10, DUP20150727A
L25810	MC-4 - REANALYSIS

2. LABORATORY QUALITY CONTROL

As specified in the QAPP, laboratory QC was maintained for all analyses through proper licensure, the use of approved analytical methods, QC measurements, appropriate turnaround time for analysis (timeliness), method detection limits (MDLs), and practical quantitation limits (PQLs). Each of these controls is discussed in the following subsections.

The review of laboratory QC included a review to identify any qualified data and an assessment of their significance. Additionally, the laboratory QC summaries were reviewed to verify that results met QA criteria.

2.1 Licensure

ACZ is licensed with the Arizona Department of Health Services (license number AZ0102) and is accredited in accordance with the National Environmental Laboratory Accreditation Conference.

2.2 Analytical Methods

The following methods were used for sulfate analysis during this monitoring period:

- U.S. Environmental Protection Agency (EPA) 300.0 (Ion-Chromatography)
- ASTM International Method D516-02 (Turbidimetric)

2.3 Method Detection Limits (MDLs) and Practical Quantification Limits (PQLs)

The MDLs and PQLs of the analytical methods used by ACZ are shown in the following table. The MDLs for analyses of samples were equal to, or less than, the target MDLs identified in the QAPP.

Method	MDL (mg/L)	PQL (mg/L)	Target MDL[1] (mg/L)
EPA 300.0	0.5	3	10
D516-02	5	30	10

mg/L = milligrams per liter
[1] Target MDL from Table E.2 of QAPP

2.4 Timeliness

Holding time was derived from the EPA methods utilized and was calculated beginning from the time of sample collection in the field. All samples submitted for sulfate analysis were analyzed within the twenty-eight day holding time specified by each of the methods used for analysis.

2.5 Quality Control Measurements

The following laboratory QC samples were prepared and analyzed:

- Preparation blanks, calibration blanks, and calibration verification standards
- Analytical spikes and analytical spike duplicates
- Laboratory control samples
- Laboratory duplicate samples

2.5.1 Preparation Blanks, Calibration Blanks, and Calibration Verification Standards

Preparation blanks were run with each group of samples submitted for sulfate analysis. Preparation blanks were prepared from analyte-free water and treated as routine samples. Analytical results of the preparation blanks showed that the target analyte was not detected at the indicated MDL.

Initial calibration blanks and initial calibration verification standards were analyzed prior to each group of samples. The results for each initial calibration blank analyzed showed no detections of the target analyte. Analytical results for the initial calibration verification standards and laboratory-fortified blanks showed percent recoveries that were within the acceptance criteria specified by the ACZ QA plan and the QAPP.

2.5.2 Analytical Spikes and Analytical Spike Duplicates

Analytical spike and spike duplicate samples were analyzed for 10 percent of the samples analyzed. The spike samples were prepared by adding a sulfate spike to one randomly chosen sample out of every ten samples analyzed. Spike recoveries for most analyses were between 90 and 110 percent. Instances in which analytical spike recoveries were high, low or unusable are qualified with an “M1”, “M2”, or “M3” flag, respectively. The “M1” qualifier was used in the L23631, L24094, and L25181 reports. The “M2” qualifier was used in the L23961 report. The “M3” qualifier was used in the L23961 report. In all cases where an “M1”, “M2”, or “M3”

qualifier was used, the method control sample recovery was checked to ensure that it was acceptable. The method control samples were prepared by adding a sulfate spike to de-ionized water.

2.5.3 Laboratory Control Samples

Laboratory control samples were run for each group of samples submitted for sulfate analysis following the analytical method. Recoveries for all laboratory control samples were within the acceptance criteria specified by ACZ.

2.5.4 Laboratory Duplicate Samples

Analyses of laboratory duplicate samples were reviewed as part of this data verification report. Field duplicate samples are discussed in Section 3.1. The relative percent difference (RPD) for all laboratory duplicate samples were within 20 percent, which is the tolerance range set by the laboratory. The RPD was not used for data validation if the sample concentration was less than ten times the method detection limit. In cases where the RPD was used for data validation based on laboratory standard operating procedure, the results met QA criteria and demonstrated appropriate levels of precision for laboratory analysis of these samples.

2.5.5 Sample Re-Analysis

During the second and third quarters of 2015, two samples were submitted for reanalysis. The re-analyses were conducted because the initial analytical result was outside the historical concentration range for the well. Re-analysis was completed by conducting additional analyses on an existing sample using the same sample preparation and method for analysis. The sample was analyzed twice to confirm the re-analysis. The results of the re-analysis are in the table below.

Project No.	Well ID	Original Result (mg/L)	Re-Analysis (mg/L)	RPD
L25181	HAVEN GOLF	253	112	77.26%
L25810	MC-4	96.7	1220	170.62%

The re-analysis results are similar to historical results, indicating that the original result was anomalous with respect to the record. The re-analysis results were accepted as correct based on

similarity to historical results for the wells and entered into the water quality database. The re-analysis results will be confirmed with future samples.

3. DATA QUALITY INDICATORS

The QAPP provides DQIs for assessing the overall quality of the data. The DQIs include the following:

- Precision
- Bias
- Accuracy
- Representativeness
- Comparability
- Completeness
- Sensitivity

Each DQI is discussed below in relation to groundwater sampling and analysis conducted by Sierrita.

3.1 Precision

Precision indicates how well a measurement can be reproduced. Precision of the analytical results is quantified by calculating the RPD between duplicate samples. For the purposes of QA/QC, precision was quantified by calculating the RPDs between duplicates among the following groups of duplicate samples:

- Laboratory duplicate samples
- Field duplicate samples

As discussed in Sections 2.5.2 and 2.5.4, there were no exceedances of RPD QA criteria based on laboratory standard operating procedures for any laboratory duplicates. During this monitoring period, twelve field duplicate samples were collected by Sierrita for filtered sulfate analysis. Eight were collected in the second quarter 2015 (DUP20150511A, DUP20150414A, DUP20150402A, DUP20150401A, DUP20150401B, DUP20150422A, DUP20150415A, and DUP20150401C) and four were collected in the third quarter 2015 (DUP20150727A, DUP20150715A, DUP20150708A, and DUP20150702A). The collection of eight field duplicate samples in the second quarter 2015 and of four field duplicate samples in the third quarter of 2015 meets the QA/QC goal of collecting one duplicate sample for every ten groundwater samples collected; as stated in Section 6 of Sierrita's quality assurance quality control plan.

Results of the field duplicate samples are provided in the table below. The range of RPD values was 0.00 to 3.69 percent, all within the 20 percent acceptance criteria for field duplicates; as stated in Section 3.3.1 of the QAPP. Overall, the DQI for precision is met.

ACZ Project No.	Well ID	Duplicate ID	Sample (mg/l)	Duplicate (mg/l)	RPD
L24352	CW-3	DUP20150511A	71.4	70.0	1.98%
L25709	CW-6	DUP20150727A	94.8	94.3	0.53%
L23875	CW-10	DUP20150414A	56.7	57.5	1.40%
L23632	FFS-2	DUP20150402A	1800	1800	0.00%
L25570	FFS-6	DUP20150715A	1220	1260	3.23%
L23631, L23632	IW-13	DUP20150401A	1860	1930	3.69%
L23631, L23632	IW-27	DUP20150401B	1670	1710	2.37%
L23962	MO-2007-1B	DUP20150422A	987	1000	1.31%
L23875	MO-2007-4A	DUP20150415A	39.7	39.1	1.52%
L25332	MO-2007-4A	DUP20150708A	40.2	40.1	0.25%
L25249	MO-2007-6A	DUP20150702A	28.8	28.6	0.70%
L23632	PS-4	DUP20150401C	1230	1240	0.81%

mg/L = milligrams per liter
RPD = Relative Percent Difference

3.2 Bias

Bias is a systematic distortion of measurements causing consistent errors in one direction. Bias was managed in this dataset through consistent application of standardized sample collection and analysis procedures.

3.3 Accuracy

Accuracy is a measure of the agreement of a measurement to a known value and is determined using the recoveries from laboratory control samples. As discussed in Sections 2.5.1, 2.5.2, and 2.5.3 respectively, there were no significant exceedances of the recovery QA criteria for any of the calibration standards, analytical spikes, or laboratory control standards. Based on this information, the overall accuracy of the data is sufficient for the purpose of aquifer characterization.

3.4 Representativeness

All well samples were taken from locations specified in the Post-Implementation Groundwater Monitoring Plan (Clear Creek Associates, 2013) using sampling procedures specified in the QAPP. Therefore, the samples provide a good representation of groundwater quality at the locations. The analytical data are representative of groundwater conditions because the analyses were conducted using standard procedures and methods that met QA/QC guidelines of the QAPP.

3.5 Comparability

All samples were collected using standardized procedures (PDSI, 2005) and were analyzed by ACZ using standardized methods. Insofar as standardized sample collection and analytical methods are adhered to, the sample results should be comparable.

3.6 Completeness

All samples collected by Sierrita were subsequently analyzed and reported by ACZ. All samples analyzed by ACZ satisfy the QA/QC criteria for this project and are usable for aquifer characterization. Thus, the completeness of analytical results is 100 percent.

3.7 Sensitivity

The analytical methods used to analyze the samples meet the MDL requirements specified in Table E.2 of the QAPP. Therefore, the analytical sensitivity is considered acceptable for use in aquifer characterization.

4. REFERENCES

Clear Creek Associates. 2013. Mitigation Plan for Sulfate with Respect to Drinking Water Supplies in the Vicinity of Freeport-McMoRan Sierrita Inc. Tailing Impoundment, Mitigation Order on Consent Docket No. P-50-06. December 18, 2013.

Hydro Geo Chem, Inc. (HGC). 2006. Work Plan to Characterize and Mitigate Sulfate with Respect to Drinking Water Supplies in the Vicinity of the Phelps Dodge Sierrita Tailing Impoundment, Pima County, Arizona. August 11, 2006, revised October 31, 2006.

Phelps Dodge Sierrita, Inc. (PDSI). 2005. Quality Assurance/Quality Control Plan for Water Monitoring, Phelps Dodge Sierrita, Inc. June 2005.

APPENDIX B

ANALYTICAL DATA REPORTS

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

April 20, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Sarina Martinez, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23631

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 03, 2015. This project has been assigned to ACZ's project number, L23631. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23631. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after May 20, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-20

ACZ Sample ID: ***L23631-01***
Date Sampled: *04/01/15 08:35*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1700		*	mg/L	10	50	04/14/15 21:09	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-19

ACZ Sample ID: ***L23631-02***
Date Sampled: *04/01/15 08:50*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1910			mg/L	25	125	04/15/15 13:17	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-15

ACZ Sample ID: ***L23631-03***
Date Sampled: *04/01/15 09:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1860		*	mg/L	10	50	04/14/15 22:21	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-14

ACZ Sample ID: ***L23631-04***
Date Sampled: *04/01/15 09:07*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1930		*	mg/L	10	50	04/14/15 23:14	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-13

ACZ Sample ID: ***L23631-05***
Date Sampled: *04/01/15 09:17*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1860		*	mg/L	10	50	04/14/15 23:32	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-12

ACZ Sample ID: ***L23631-06***
Date Sampled: *04/01/15 09:23*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1600		*	mg/L	10	50	04/14/15 23:50	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-11

ACZ Sample ID: ***L23631-07***
Date Sampled: *04/01/15 09:35*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1790		*	mg/L	10	50	04/15/15 0:08	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-22

ACZ Sample ID: ***L23631-08***
Date Sampled: *04/01/15 09:45*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1770			mg/L	10	50	04/15/15 0:26	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-29

ACZ Sample ID: ***L23631-09***
Date Sampled: *04/01/15 09:57*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1750			mg/L	25	125	04/15/15 13:53	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-28

ACZ Sample ID: ***L23631-10***
Date Sampled: *04/01/15 10:07*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1730			mg/L	10	50	04/15/15 1:38	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-10

ACZ Sample ID: ***L23631-11***
Date Sampled: *04/01/15 10:18*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1870			mg/L	10	50	04/15/15 1:55	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-23

ACZ Sample ID: ***L23631-12***
Date Sampled: *04/01/15 10:30*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1890			mg/L	10	50	04/15/15 2:49	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-27

ACZ Sample ID: ***L23631-13***
Date Sampled: *04/01/15 10:40*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1670			mg/L	10	50	04/15/15 3:07	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-24

ACZ Sample ID: ***L23631-14***
Date Sampled: *04/01/15 10:55*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1760			mg/L	10	50	04/15/15 3:25	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-26

ACZ Sample ID: ***L23631-15***
Date Sampled: *04/01/15 11:14*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1630			mg/L	10	50	04/15/15 3:43	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-8

ACZ Sample ID: ***L23631-16***
Date Sampled: *04/01/15 11:27*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1800			mg/L	10	50	04/15/15 4:01	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-3A

ACZ Sample ID: ***L23631-17***
Date Sampled: *04/01/15 11:41*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1820			mg/L	10	50	04/15/15 4:19	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-2A

ACZ Sample ID: ***L23631-18***
Date Sampled: *04/01/15 11:50*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	150		*	mg/L	2.5	12.5	04/16/15 22:32	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: IW-1

ACZ Sample ID: ***L23631-19***
Date Sampled: *04/01/15 11:57*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1140		*	mg/L	10	50	04/16/15 22:50	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-3

ACZ Sample ID: ***L23631-20***
Date Sampled: *04/01/15 13:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1010		*	mg/L	10	50	04/16/15 23:08	tcd

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23631***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG381928													
WG381928ICV	ICV	04/14/15 19:01	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG381928ICB	ICB	04/14/15 19:19				U	mg/L		-1.5	1.5			
WG381928LFB1	LFB	04/14/15 19:54	WI150409-2	30		29.7	mg/L	99	90	110			
L23631-01DUP	DUP	04/14/15 21:27			1700	1710	mg/L				1	20	
L23631-08DUP	DUP	04/15/15 0:44			1770	1780	mg/L				1	20	
WG381928LFB2	LFB	04/15/15 4:37	WI150409-2	30		29.6	mg/L	99	90	110			
L23631-18DUP	DUP	04/15/15 5:13			141	141	mg/L				0	20	
L23631-02AS	AS	04/15/15 13:35	WI150409-2	1500	1910	3600	mg/L	113	90	110			M1
L23631-09AS	AS	04/15/15 14:11	WI150409-2	1500	1750	3350	mg/L	107	90	110			
WG382051													
WG382051ICV	ICV	04/16/15 19:51	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382051ICB	ICB	04/16/15 20:09				U	mg/L		-1.5	1.5			
WG382051LFB1	LFB	04/16/15 20:45	WI150409-2	30		29.7	mg/L	99	90	110			
L23519-02DUP	DUP	04/16/15 21:38			2.55	2.55	mg/L				0	20	RA
L23597-01AS	AS	04/16/15 22:14	WI150409-2	30	10.3	39.4	mg/L	97	90	110			
WG382051LFB2	LFB	04/17/15 5:24	WI150409-2	30		30.1	mg/L	100	90	110			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23631***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23631-01	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-03	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-04	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-05	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-06	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-07	WG381928	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L23631-18	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23631-19	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23631-20	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23631***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L23631
Date Received: 04/03/2015 10:06
Received By: ear
Date Printed: 4/3/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4090	0.1	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc. L23631

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-20	4/1/15 : 0835	GW	1	X							
IW-19	4/1/15 : 0850	GW	1	X							
IW-15	4/1/15 : 0900	GW	1	X							
IW-14	4/1/15 : 0907	GW	1	X							
IW-13	4/1/15 : 0917	GW	1	X							
IW-12	4/1/15 : 0923	GW	1	X							
IW-11	4/1/15 : 0935	GW	1	X							
IW-22	4/1/15 : 0945	GW	1	X							
IW-29	4/1/15 : 0957	GW	1	X							
IW-28	4/1/15 : 1007	GW	1	X							

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

REMARKS

Sulfates Page 1 of 4

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 142 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/2/15 : 1530		4/3/15 10:00

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L23631 Chain of Custody

ACZ Laboratories, Inc. L23631

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [x]

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
IW-10	4/1/15 : 1018	GW	1	x							
IW-23	4/1/15 : 1030	GW	1	x							
IW-27	4/1/15 : 1040	GW	1	x							
IW-24	4/1/15 : 1055	GW	1	x							
IW-26	4/1/15 : 1114	GW	1	x							
IW-8	4/1/15 : 1127	GW	1	x							
IW-3A	4/1/15 : 1141	GW	1	x							
IW-2A	4/1/15 : 1150	GW	1	x							
IW-1	4/1/15 : 1157	GW	1	x							
PS-3	4/1/15 : 1300	GW	1	x							

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

REMARKS

Sulfates Page 2 of 4

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 142 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/2/15 : 1530		4.3.15 10:00

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

April 20, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Sarina Martinez, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23632

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 03, 2015. This project has been assigned to ACZ's project number, L23632. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23632. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after May 20, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-2

ACZ Sample ID: ***L23632-01***
Date Sampled: *04/01/15 13:10*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1000		*	mg/L	10	50	04/17/15 0:02	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-1

ACZ Sample ID: ***L23632-02***
Date Sampled: *04/01/15 13:17*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1140		*	mg/L	10	50	04/17/15 0:20	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-4

ACZ Sample ID: ***L23632-03***
Date Sampled: *04/01/15 13:28*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1230		*	mg/L	10	50	04/17/15 0:38	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-4

ACZ Sample ID: ***L23632-04***
Date Sampled: *04/02/15 08:15*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1230		*	mg/L	10	50	04/17/15 0:55	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-3

ACZ Sample ID: ***L23632-05***
Date Sampled: *04/02/15 08:26*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1390			mg/L	10	50	04/17/15 1:13	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-6

ACZ Sample ID: ***L23632-06***
Date Sampled: *04/02/15 08:34*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1210			mg/L	25	125	04/17/15 1:49	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-5

ACZ Sample ID: ***L23632-07***
Date Sampled: *04/02/15 08:41*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1390			mg/L	10	50	04/17/15 2:25	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-2

ACZ Sample ID: ***L23632-08***
Date Sampled: *04/02/15 08:55*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1200			mg/L	10	50	04/17/15 2:43	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-4

ACZ Sample ID: ***L23632-09***
Date Sampled: *04/02/15 09:09*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1230			mg/L	10	50	04/17/15 3:37	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-3

ACZ Sample ID: ***L23632-10***
Date Sampled: *04/02/15 09:22*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1490			mg/L	10	50	04/17/15 3:55	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-1

ACZ Sample ID: ***L23632-11***
Date Sampled: *04/02/15 09:35*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1710			mg/L	10	50	04/17/15 4:13	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-2

ACZ Sample ID: ***L23632-12***
Date Sampled: *04/02/15 10:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1800			mg/L	10	50	04/17/15 4:31	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150401A

ACZ Sample ID: ***L23632-13***
Date Sampled: *04/01/15 00:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1930			mg/L	10	50	04/17/15 4:48	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150401B

ACZ Sample ID: ***L23632-14***
Date Sampled: *04/01/15 00:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1710			mg/L	10	50	04/17/15 5:06	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150401C

ACZ Sample ID: ***L23632-15***
Date Sampled: *04/01/15 00:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1240			mg/L	10	50	04/17/15 5:42	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150402A

ACZ Sample ID: ***L23632-16***
Date Sampled: *04/02/15 00:00*
Date Received: *04/03/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1800			mg/L	25	125	04/17/15 6:18	tcd

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23632***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382051													
WG382051ICV	ICV	04/16/15 19:51	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382051ICB	ICB	04/16/15 20:09				U	mg/L		-1.5	1.5			
WG382051LFB1	LFB	04/16/15 20:45	WI150409-2	30		29.7	mg/L	99	90	110			
L23519-02DUP	DUP	04/16/15 21:38			2.55	2.55	mg/L				0	20	RA
L23597-01AS	AS	04/16/15 22:14	WI150409-2	30	10.3	39.4	mg/L	97	90	110			
L23632-05DUP	DUP	04/17/15 1:31			1390	1400	mg/L				1	20	
L23632-06AS	AS	04/17/15 2:07	WI150409-2	1500	1210	2710	mg/L	100	90	110			
WG382051LFB2	LFB	04/17/15 5:24	WI150409-2	30		30.1	mg/L	100	90	110			
L23632-15DUP	DUP	04/17/15 6:00			1240	1260	mg/L				2	20	
L23632-16AS	AS	04/17/15 7:12	WI150409-2	1500	1800	3270	mg/L	98	90	110			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23632***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23632-01	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23632-02	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23632-03	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23632-04	WG382051	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23632***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L23632
Date Received: 04/03/2015 10:06
Received By: ear
Date Printed: 4/3/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4090	0.1	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc. L23632

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
PS-2	4/1/15 : 1310	GW	1	X							
PS-1	4/1/15 : 1317	GW	1	X							
PS-4	4/1/15 : 1328	GW	1	X							
MC-4	4/2/15 : 0815	GW	1	X							
MC-3	4/2/15 : 0826	GW	1	X							
FFS-6	4/2/15 : 0834	GW	1	X							
FFS-5	4/2/15 : 0841	GW	1	X							
MC-2	4/2/15 : 0855	GW	1	X							
FFS-4	4/2/15 : 0909	GW	1	X							
FFS-3	4/2/15 : 0922	GW	1	X							

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

REMARKS

Sulfates Page 3 of 4

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 142 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/2/15 : 1530		4/3/15 10:00

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

23632 chain of custody

ACZ Laboratories, Inc. L23632

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MC-1	4/2/15 : 0935	GW	1	X							
FFS-2	4/2/15 : 1000	GW	1	X							
DUP20150401A	4/1/15 : 0000	GW	1	X							
DUP20150401B	4/1/15 : 0000	GW	1	X							
DUP20150401C	4/1/15 : 0000	GW	1	X							
DUP20150402A	4/2/15 : 0000	GW	1	X							

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

REMARKS

Sulfates Page 4 of 4

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 142 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/2/15 : 1530		4/3/15 10:06

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

April 22, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Ben Daigneau, Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23676

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 08, 2015. This project has been assigned to ACZ's project number, L23676. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23676. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after May 22, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

Max Janicek has reviewed and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-9

ACZ Sample ID: ***L23676-01***
Date Sampled: *04/06/15 08:52*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	57.8			mg/L	0.5	2.5	04/17/15 7:30	tcd

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-10

ACZ Sample ID: ***L23676-02***
Date Sampled: *04/06/15 12:18*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	166			mg/L	5	25	04/17/15 14:37	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-8

ACZ Sample ID: ***L23676-03***
Date Sampled: *04/06/15 15:30*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	20.6			mg/L	0.5	2.5	04/17/15 8:06	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-2

ACZ Sample ID: ***L23676-04***
Date Sampled: *04/07/15 08:29*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	255			mg/L	5	25	04/17/15 14:55	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-26B

ACZ Sample ID: ***L23676-05***
Date Sampled: *04/07/15 09:24*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1650			mg/L	25	125	04/17/15 15:13	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-26C

ACZ Sample ID: ***L23676-06***
Date Sampled: *04/07/15 09:54*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	970			mg/L	25	125	04/17/15 15:31	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-25A

ACZ Sample ID: ***L23676-07***
Date Sampled: *04/07/15 10:20*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	12.3			mg/L	0.5	2.5	04/20/15 20:00	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-25B

ACZ Sample ID: ***L23676-08***
Date Sampled: *04/07/15 10:40*
Date Received: *04/08/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1580			mg/L	25	125	04/17/15 16:07	tcd

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23676***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382051													
WG382051ICV	ICV	04/16/15 19:51	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382051ICB	ICB	04/16/15 20:09				U	mg/L		-1.5	1.5			
WG382051LFB1	LFB	04/16/15 20:45	WI150409-2	30		29.7	mg/L	99	90	110			
WG382051LFB2	LFB	04/17/15 5:24	WI150409-2	30		30.1	mg/L	100	90	110			
L23632-15DUP	DUP	04/17/15 6:00			1240	1260	mg/L				2	20	
L23632-16AS	AS	04/17/15 7:12	WI150409-2	1500	1800	3270	mg/L	98	90	110			
WG382180													
WG382180ICV	ICV	04/20/15 17:16	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382180ICB	ICB	04/20/15 17:34				U	mg/L		-1.5	1.5			
WG382180LFB1	LFB	04/20/15 18:13	WI150409-2	30		29.6	mg/L	99	90	110			
L23648-01DUP	DUP	04/20/15 18:49			35.6	35.7	mg/L				0	20	
L23651-01AS	AS	04/20/15 19:24	WI150409-2	30	14.1	43.4	mg/L	98	90	110			
WG382180LFB2	LFB	04/21/15 3:10	WI150409-2	30		29	mg/L	97	90	110			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23676***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23676***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L23676
Date Received: 04/08/2015 09:35
Received By: ddp
Date Printed: 4/8/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits?			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3925	2.2	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc. L23676

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375
M-9	4/6/15 : 0852	GW	1	X
M-10	4/6/15 : 1218	GW	1	X
M-8	4/6/15 : 1530	GW	1	X
MO-2007-2	4/7/15 : 0829	GW	1	X
MH-26B	4/7/15 : 0924	GW	1	X
MH-26C	4/7/15 : 0954	GW	1	X
MH-25A	4/7/15 : 1020	GW	1	X
MH-25B	4/7/15 : 1040	GW	1	X

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 141 4

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/7/15 : 1530	WL	4815 0935

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L23676 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

April 28, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Ben Daigneau, Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23875

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 18, 2015. This project has been assigned to ACZ's project number, L23875. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23875. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after May 28, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-10

ACZ Sample ID: ***L23875-01***
Date Sampled: *04/14/15 08:31*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	56.7			mg/L	0.5	2.5	04/24/15 20:39	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-9

ACZ Sample ID: ***L23875-02***
Date Sampled: *04/14/15 09:41*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	47.0			mg/L	0.5	2.5	04/24/15 20:57	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-6

ACZ Sample ID: ***L23875-03***
Date Sampled: *04/14/15 10:21*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	91.1			mg/L	1	5	04/24/15 21:51	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-10

ACZ Sample ID: ***L23875-04***
Date Sampled: *04/14/15 14:30*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1560			mg/L	10	50	04/27/15 11:04	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PZ-8

ACZ Sample ID: ***L23875-05***
Date Sampled: *04/15/15 07:05*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	454			mg/L	5	25	04/24/15 22:27	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-1

ACZ Sample ID: ***L23875-06***
Date Sampled: *04/15/15 08:18*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	37.6			mg/L	0.5	2.5	04/24/15 22:45	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-2

ACZ Sample ID: ***L23875-07***
Date Sampled: *04/15/15 09:09*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	58.7			mg/L	0.5	2.5	04/24/15 23:03	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: SIWELL

ACZ Sample ID: ***L23875-08***
Date Sampled: *04/15/15 09:49*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	8.35			mg/L	0.5	2.5	04/24/15 23:21	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4B

ACZ Sample ID: ***L23875-09***
Date Sampled: *04/15/15 11:51*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	35.1			mg/L	0.5	2.5	04/24/15 23:57	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4C

ACZ Sample ID: ***L23875-10***
Date Sampled: *04/15/15 12:14*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	77.3			mg/L	0.5	2.5	04/25/15 0:14	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4A

ACZ Sample ID: ***L23875-11***
Date Sampled: *04/15/15 12:29*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	39.7			mg/L	0.5	2.5	04/25/15 0:32	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2009-1

ACZ Sample ID: ***L23875-12***
Date Sampled: *04/15/15 14:16*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	104			mg/L	1	5	04/25/15 1:26	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-6A

ACZ Sample ID: ***L23875-13***
Date Sampled: *04/16/15 07:36*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	19.6			mg/L	0.5	2.5	04/25/15 1:44	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-6B

ACZ Sample ID: ***L23875-14***
Date Sampled: *04/16/15 08:22*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	64.3			mg/L	0.5	2.5	04/25/15 2:02	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-11

ACZ Sample ID: ***L23875-15***
Date Sampled: *04/16/15 09:22*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1550			mg/L	10	50	04/27/15 11:22	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150414A

ACZ Sample ID: ***L23875-16***
Date Sampled: *04/14/15 00:00*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	57.5			mg/L	0.5	2.5	04/25/15 2:38	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150415A

ACZ Sample ID: ***L23875-17***
Date Sampled: *04/15/15 00:00*
Date Received: *04/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	39.1			mg/L	0.5	2.5	04/25/15 2:56	tcd

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23875***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382180													
WG382180ICV	ICV	04/20/15 17:16	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382180ICB	ICB	04/20/15 17:34				U	mg/L		-1.5	1.5			
WG382475													
WG382475LFB1	LFB	04/24/15 14:59	WI150409-2	30		29.5	mg/L	98	90	110			
L23862-13DUP	DUP	04/24/15 19:46			219	219	mg/L				0	20	
L23862-14AS	AS	04/24/15 20:22	WI150409-2	1500	908	2470	mg/L	104	90	110			
WG382475LFB2	LFB	04/24/15 23:39	WI150409-2	30		29.4	mg/L	98	90	110			
L23904-01AS	AS	04/25/15 3:32	WI150409-2	3000	3490	6560	mg/L	102	90	110			
L23904-01DUP	DUP	04/25/15 3:49			3490	3550	mg/L				2	20	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23875***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23875***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L23875
Date Received: 04/18/2015 11:30
Received By: ddp
Date Printed: 4/20/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
2812	1.4	15	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L23875
Date Received:	04/18/2015 11:30
Received By:	ddp
Date Printed:	4/20/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), $Na_2S_2O_3$ preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L23875

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ]
If yes, please include state forms. Results will be reported to PQL. NO [X]

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
CW-10	4/14/15 : 0831	GW	1	X							
CW-9	4/14/15 : 0941	GW	1	X							
CW-6	4/14/15 : 1021	GW	1	X							
MH-10	4/14/15 : 1430	GW	1	X							
PZ-8	4/15/15 : 0705	GW	1	X							
GV-1	4/15/15 : 0818	GW	1	X							
GV-2	4/15/15 : 0909	GW	1	X							
SIWELL	4/15/15 : 0949	GW	1	X							
MO-2007-4B	4/15/15 : 1151	GW	1	X							
MO-2007-4C	4/15/15 : 1214	GW	1	X							

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

REMARKS

Sulfates (Page 1 of 2) COOLER 1 OF 2

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 138 9

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/16/15 : 1530	WPC	4/16/15 1130

L23875 Chain of Custody

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.

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

L23875

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-4A	4/15/15 : 1229	GW	1	X							
MO-2009-1	4/15/15 ; 1416	GW	1	X							
MO-2007-6A	4/16/15 : 0736	GW	1	X							
MO-2007-6B	4/16/15 : 0822	GW	1	X							
MH-11	4/16/15 : 0922	GW	1	X							
DUP20150414A	4/14/15 : 0000	GW	1	X							
DUP20150415A	4/15/15 : 0000	GW	1	X							

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

REMARKS

Sulfates (Page 2 of 2) COOLER 1 OF 2

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 138 9

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/16/15 : 1530	WL	4/16/15 1170

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 08, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23961

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 24, 2015. This project has been assigned to ACZ's project number, L23961. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23961. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after June 07, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-14

ACZ Sample ID: ***L23961-01***
Date Sampled: *04/21/15 09:09*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								05/04/15 11:46	thf

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	2		U		mg/L	0.06	0.3	04/28/15 13:12	aeb
Antimony, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0008	0.004	05/05/15 7:26	pmc
Arsenic, dissolved	M200.8 ICP-MS	2	0.0009	B		mg/L	0.0004	0.002	05/05/15 7:26	pmc
Barium, dissolved	M200.7 ICP	2	0.052			mg/L	0.006	0.03	04/28/15 13:12	aeb
Beryllium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0001	0.0005	05/05/15 7:26	pmc
Cadmium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:26	pmc
Calcium, dissolved	M200.7 ICP	2	498			mg/L	0.2	1	04/28/15 13:12	aeb
Chromium, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:12	aeb
Cobalt, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:12	aeb
Copper, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:12	aeb
Iron, dissolved	M200.7 ICP	2		U		mg/L	0.04	0.1	04/28/15 13:12	aeb
Lead, dissolved	M200.8 ICP-MS	2	0.0004	B		mg/L	0.0002	0.001	05/05/15 7:26	pmc
Magnesium, dissolved	M200.7 ICP	2	128			mg/L	0.4	2	04/28/15 13:12	aeb
Manganese, dissolved	M200.7 ICP	2	0.02	B		mg/L	0.01	0.05	04/28/15 13:12	aeb
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	04/30/15 12:42	mfm
Molybdenum, dissolved	M200.7 ICP	2		U	*	mg/L	0.04	0.2	04/28/15 13:12	aeb
Nickel, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.08	04/28/15 13:12	aeb
Potassium, dissolved	M200.7 ICP	2	8.3			mg/L	0.4	2	04/28/15 13:12	aeb
Selenium, dissolved	M200.8 ICP-MS	2	0.0008			mg/L	0.0002	0.0005	05/05/15 7:26	pmc
Sodium, dissolved	M200.7 ICP	2	149			mg/L	0.4	2	04/28/15 13:12	aeb
Thallium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:26	pmc
Uranium, dissolved	M200.8 ICP-MS	2	0.0216			mg/L	0.0002	0.001	05/05/15 7:26	pmc
Zinc, dissolved	M200.7 ICP	2	3.84			mg/L	0.02	0.1	04/28/15 13:12	aeb

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-14

ACZ Sample ID: ***L23961-01***
Date Sampled: *04/21/15 09:09*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	152		*	mg/L	2	20	04/27/15 0:00	enb
Carbonate as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Hydroxide as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Total Alkalinity		1	152		*	mg/L	2	20	04/27/15 0:00	enb
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			05/08/15 8:43	calc
Sum of Anions			42			meq/L			05/08/15 8:43	calc
Sum of Cations			42			meq/L			05/08/15 8:43	calc
Chloride	SM4500Cl-E	10	136		*	mg/L	5	20	04/30/15 11:09	tcd
Conductivity @25C	SM2510B	1	3130		*	umhos/cm	1	10	04/25/15 21:16	enb
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.027		*	mg/L	0.003	0.01	05/04/15 16:19	thf
Fluoride	SM4500F-C	1	0.25	B	*	mg/L	0.05	0.3	04/29/15 13:07	enb
Hardness as CaCO3	SM2340B - Calculation		1770			mg/L	2	8	05/08/15 8:43	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	1.18		*	mg/L	0.02	0.1	04/30/15 23:17	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H	*	units	0.1	0.1	04/27/15 0:00	enb
pH measured at		1	20.3		*	C	0.1	0.1	04/27/15 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	2970		*	mg/L	10	20	04/24/15 16:22	tms
Sulfate	D516-02/-07 - Turbidimetric	100	1650		*	mg/L	100	500	04/28/15 11:57	bsu
TDS (calculated)	Calculation		2670			mg/L			05/08/15 8:43	calc
TDS (ratio - measured/calculated)	Calculation		1.11						05/08/15 8:43	calc

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-28

ACZ Sample ID: ***L23961-02***
Date Sampled: *04/21/15 10:27*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								05/04/15 12:03	thf

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	2		U		mg/L	0.06	0.3	04/28/15 13:21	aeb
Antimony, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0008	0.004	05/05/15 7:30	pmc
Arsenic, dissolved	M200.8 ICP-MS	2	0.0006	B		mg/L	0.0004	0.002	05/05/15 7:30	pmc
Barium, dissolved	M200.7 ICP	2	0.043			mg/L	0.006	0.03	04/28/15 13:21	aeb
Beryllium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0001	0.0005	05/05/15 7:30	pmc
Cadmium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:30	pmc
Calcium, dissolved	M200.7 ICP	2	567			mg/L	0.2	1	04/28/15 13:21	aeb
Chromium, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:21	aeb
Cobalt, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:21	aeb
Copper, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:21	aeb
Iron, dissolved	M200.7 ICP	2	1.25			mg/L	0.04	0.1	04/28/15 13:21	aeb
Lead, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:30	pmc
Magnesium, dissolved	M200.7 ICP	2	104			mg/L	0.4	2	04/28/15 13:21	aeb
Manganese, dissolved	M200.7 ICP	2	0.19			mg/L	0.01	0.05	04/28/15 13:21	aeb
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	04/30/15 12:44	mfm
Molybdenum, dissolved	M200.7 ICP	2		U	*	mg/L	0.04	0.2	04/28/15 13:21	aeb
Nickel, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.08	04/28/15 13:21	aeb
Potassium, dissolved	M200.7 ICP	2	8.6			mg/L	0.4	2	04/28/15 13:21	aeb
Selenium, dissolved	M200.8 ICP-MS	2	0.0006			mg/L	0.0002	0.0005	05/05/15 7:30	pmc
Sodium, dissolved	M200.7 ICP	2	171			mg/L	0.4	2	04/28/15 13:21	aeb
Thallium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:30	pmc
Uranium, dissolved	M200.8 ICP-MS	2	0.0255			mg/L	0.0002	0.001	05/05/15 7:30	pmc
Zinc, dissolved	M200.7 ICP	2	2.98			mg/L	0.02	0.1	04/28/15 13:21	aeb

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-28

ACZ Sample ID: ***L23961-02***
Date Sampled: *04/21/15 10:27*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	124		*	mg/L	2	20	04/27/15 0:00	enb
Carbonate as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Hydroxide as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Total Alkalinity		1	124		*	mg/L	2	20	04/27/15 0:00	enb
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			05/08/15 8:44	calc
Sum of Anions			45			meq/L			05/08/15 8:44	calc
Sum of Cations			45			meq/L			05/08/15 8:44	calc
Chloride	SM4500Cl-E	10	136		*	mg/L	5	20	04/30/15 11:09	tcd
Conductivity @25C	SM2510B	1	3320		*	umhos/cm	1	10	04/25/15 21:25	enb
Cyanide, total	M335.4 - Colorimetric w/ distillation	2.5	0.70		*	mg/L	0.02	0.05	05/04/15 16:44	thf
Fluoride	SM4500F-C	1	0.23	B	*	mg/L	0.05	0.3	04/29/15 13:14	enb
Hardness as CaCO3	SM2340B - Calculation		1840			mg/L	2	8	05/08/15 8:44	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.78		*	mg/L	0.02	0.1	04/30/15 23:22	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H	*	units	0.1	0.1	04/27/15 0:00	enb
pH measured at		1	20.5		*	C	0.1	0.1	04/27/15 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	3170		*	mg/L	10	20	04/24/15 16:24	tms
Sulfate	D516-02/-07 - Turbidimetric	100	1820		*	mg/L	100	500	04/28/15 11:57	bsu
TDS (calculated)	Calculation		2890			mg/L			05/08/15 8:44	calc
TDS (ratio - measured/calculated)	Calculation		1.10						05/08/15 8:44	calc

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-29

ACZ Sample ID: ***L23961-03***
Date Sampled: *04/21/15 11:53*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								05/04/15 12:20	thf

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	2		U		mg/L	0.06	0.3	04/28/15 13:24	aeb
Antimony, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0008	0.004	05/05/15 7:33	pmc
Arsenic, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0004	0.002	05/05/15 7:33	pmc
Barium, dissolved	M200.7 ICP	2	0.032			mg/L	0.006	0.03	04/28/15 13:24	aeb
Beryllium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0001	0.0005	05/05/15 7:33	pmc
Cadmium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:33	pmc
Calcium, dissolved	M200.7 ICP	2	532			mg/L	0.2	1	04/28/15 13:24	aeb
Chromium, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:24	aeb
Cobalt, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:24	aeb
Copper, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:24	aeb
Iron, dissolved	M200.7 ICP	2	4.43			mg/L	0.04	0.1	04/28/15 13:24	aeb
Lead, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:33	pmc
Magnesium, dissolved	M200.7 ICP	2	90.4			mg/L	0.4	2	04/28/15 13:24	aeb
Manganese, dissolved	M200.7 ICP	2	0.16			mg/L	0.01	0.05	04/28/15 13:24	aeb
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	04/30/15 12:46	mfm
Molybdenum, dissolved	M200.7 ICP	2		U	*	mg/L	0.04	0.2	04/28/15 13:24	aeb
Nickel, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.08	04/28/15 13:24	aeb
Potassium, dissolved	M200.7 ICP	2	8.6			mg/L	0.4	2	04/28/15 13:24	aeb
Selenium, dissolved	M200.8 ICP-MS	2	0.0003	B		mg/L	0.0002	0.0005	05/05/15 7:33	pmc
Sodium, dissolved	M200.7 ICP	2	194			mg/L	0.4	2	04/28/15 13:24	aeb
Thallium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:33	pmc
Uranium, dissolved	M200.8 ICP-MS	2	0.0102			mg/L	0.0002	0.001	05/05/15 7:33	pmc
Zinc, dissolved	M200.7 ICP	2	3.37			mg/L	0.02	0.1	04/28/15 13:24	aeb

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-29

ACZ Sample ID: ***L23961-03***
Date Sampled: *04/21/15 11:53*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	110		*	mg/L	2	20	04/27/15 0:00	enb
Carbonate as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Hydroxide as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Total Alkalinity		1	110		*	mg/L	2	20	04/27/15 0:00	enb
Cation-Anion Balance	Calculation									
Cation-Anion Balance			1.2			%			05/08/15 8:44	calc
Sum of Anions			42			meq/L			05/08/15 8:44	calc
Sum of Cations			43			meq/L			05/08/15 8:44	calc
Chloride	SM4500Cl-E	10	140		*	mg/L	5	20	04/30/15 11:09	tcd
Conductivity @25C	SM2510B	1	3330		*	umhos/cm	1	10	04/27/15 19:37	enb
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.015		*	mg/L	0.003	0.01	05/04/15 16:46	thf
Fluoride	SM4500F-C	1	0.15	B	*	mg/L	0.05	0.3	04/29/15 13:38	enb
Hardness as CaCO3	SM2340B - Calculation		1700			mg/L	2	8	05/08/15 8:44	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1	0.18		*	mg/L	0.02	0.1	04/30/15 23:24	pjb
pH (lab)	SM4500H+ B									
pH		1	7.8	H	*	units	0.1	0.1	04/27/15 0:00	enb
pH measured at		1	20.0		*	C	0.1	0.1	04/27/15 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	2980		*	mg/L	10	20	04/24/15 16:27	tms
Sulfate	D516-02/-07 - Turbidimetric	100	1700		*	mg/L	100	500	04/28/15 11:58	bsu
TDS (calculated)	Calculation		2740			mg/L			05/08/15 8:44	calc
TDS (ratio - measured/calculated)	Calculation		1.09						05/08/15 8:44	calc

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-16W

ACZ Sample ID: ***L23961-04***
Date Sampled: *04/21/15 12:32*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Inorganic Prep

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Cyanide, total	M335.4 - Manual Distillation								05/04/15 12:28	thf

Metals Analysis

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Aluminum, dissolved	M200.7 ICP	2		U		mg/L	0.06	0.3	04/28/15 13:27	aeb
Antimony, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0008	0.004	05/05/15 7:36	pmc
Arsenic, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0004	0.002	05/05/15 7:36	pmc
Barium, dissolved	M200.7 ICP	2	0.040			mg/L	0.006	0.03	04/28/15 13:27	aeb
Beryllium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0001	0.0005	05/05/15 7:36	pmc
Cadmium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:36	pmc
Calcium, dissolved	M200.7 ICP	2	527			mg/L	0.2	1	04/28/15 13:27	aeb
Chromium, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:27	aeb
Cobalt, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:27	aeb
Copper, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.1	04/28/15 13:27	aeb
Iron, dissolved	M200.7 ICP	2		U		mg/L	0.04	0.1	04/28/15 13:27	aeb
Lead, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:36	pmc
Magnesium, dissolved	M200.7 ICP	2	112			mg/L	0.4	2	04/28/15 13:27	aeb
Manganese, dissolved	M200.7 ICP	2	0.07			mg/L	0.01	0.05	04/28/15 13:27	aeb
Mercury, dissolved	M245.1 CVAA	1		U		mg/L	0.0002	0.001	04/30/15 12:56	mfm
Molybdenum, dissolved	M200.7 ICP	2		U	*	mg/L	0.04	0.2	04/28/15 13:27	aeb
Nickel, dissolved	M200.7 ICP	2		U		mg/L	0.02	0.08	04/28/15 13:27	aeb
Potassium, dissolved	M200.7 ICP	2	14.7			mg/L	0.4	2	04/28/15 13:27	aeb
Selenium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.0005	05/05/15 7:36	pmc
Sodium, dissolved	M200.7 ICP	2	166			mg/L	0.4	2	04/28/15 13:27	aeb
Thallium, dissolved	M200.8 ICP-MS	2		U		mg/L	0.0002	0.001	05/05/15 7:36	pmc
Uranium, dissolved	M200.8 ICP-MS	2	0.0007	B		mg/L	0.0002	0.001	05/05/15 7:36	pmc
Zinc, dissolved	M200.7 ICP	2	3.57			mg/L	0.02	0.1	04/28/15 13:27	aeb

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-16W

ACZ Sample ID: ***L23961-04***
Date Sampled: *04/21/15 12:32*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration									
Bicarbonate as CaCO3		1	64.4		*	mg/L	2	20	04/27/15 0:00	enb
Carbonate as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Hydroxide as CaCO3		1		U	*	mg/L	2	20	04/27/15 0:00	enb
Total Alkalinity		1	64.4		*	mg/L	2	20	04/27/15 0:00	enb
Cation-Anion Balance	Calculation									
Cation-Anion Balance			0.0			%			05/08/15 8:44	calc
Sum of Anions			43			meq/L			05/08/15 8:44	calc
Sum of Cations			43			meq/L			05/08/15 8:44	calc
Chloride	SM4500Cl-E	10	131		*	mg/L	5	20	04/30/15 11:09	tcd
Conductivity @25C	SM2510B	1	3330		*	umhos/cm	1	10	04/27/15 19:46	enb
Cyanide, total	M335.4 - Colorimetric w/ distillation	0.5	0.029		*	mg/L	0.003	0.01	05/04/15 16:24	thf
Fluoride	SM4500F-C	1	0.14	B	*	mg/L	0.05	0.3	04/29/15 13:41	enb
Hardness as CaCO3	SM2340B - Calculation		1780			mg/L	2	8	05/08/15 8:44	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	1		U	*	mg/L	0.02	0.1	04/30/15 23:25	pjb
pH (lab)	SM4500H+ B									
pH		1	7.9	H	*	units	0.1	0.1	04/27/15 0:00	enb
pH measured at		1	19.8		*	C	0.1	0.1	04/27/15 0:00	enb
Residue, Filterable (TDS) @180C	SM2540C	1	3020		*	mg/L	10	20	04/27/15 13:54	tms
Sulfate	D516-02/-07 - Turbidimetric	100	1830		*	mg/L	100	500	04/28/15 11:58	bsu
TDS (calculated)	Calculation		2820			mg/L			05/08/15 8:44	calc
TDS (ratio - measured/calculated)	Calculation		1.07						05/08/15 8:44	calc

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Alkalinity as CaCO3 SM2320B - Titration

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382589													
WG382589PBW1	PBW	04/27/15 17:02				U	mg/L		-20	20			
WG382589LCSW3	LCSW	04/27/15 17:20	WC150409-1	820.0001		834	mg/L	102	90	110			
L23966-02DUP	DUP	04/27/15 20:34			72.3	72	mg/L				0	20	
WG382589LCSW6	LCSW	04/27/15 20:51	WC150409-1	820.0001		839	mg/L	102	90	110			
WG382589PBW2	PBW	04/27/15 20:59				U	mg/L		-20	20			
WG382589LCSW9	LCSW	04/27/15 23:52	WC150409-1	820.0001		839	mg/L	102	90	110			
WG382589PBW3	PBW	04/27/15 23:59				U	mg/L		-20	20			
WG382589LCSW12	LCSW	04/28/15 3:02	WC150409-1	820.0001		844	mg/L	103	90	110			
WG382589PBW4	PBW	04/28/15 3:10				U	mg/L		-20	20			

Aluminum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.039	mg/L	102	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.09	0.09			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	1.0015		1.08	mg/L	108	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	1.0015	U	1.092	mg/L	109	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	1.0015	U	1.076	mg/L	107	85	115	1	20	

Antimony, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.02		.02177	mg/L	109	90	110			
WG382945ICB	ICB	05/05/15 7:20				.00051	mg/L		-0.0012	0.0012			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.01001		.01011	mg/L	101	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.01001	U	.0093	mg/L	93	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.01001	U	.00987	mg/L	99	70	130	6	20	

Arsenic, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.05086	mg/L	102	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0006	0.0006			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.0501		.05079	mg/L	101	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.0501	.0005	.05276	mg/L	104	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.0501	.0005	.05136	mg/L	102	70	130	3	20	

Barium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.027	mg/L	101	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.009	0.009			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.5		.5041	mg/L	101	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.5	.015	.521	mg/L	101	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.5	.015	.5175	mg/L	101	85	115	1	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Beryllium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.04846	mg/L	97	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.00015	0.00015			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.05005		.04913	mg/L	98	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.05005	U	.05007	mg/L	100	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.05005	U	.04953	mg/L	99	70	130	1	20	

Cadmium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.05104	mg/L	102	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0003	0.0003			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.05005		.04976	mg/L	99	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.05005	U	.0482	mg/L	96	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.05005	U	.04849	mg/L	97	70	130	1	20	

Calcium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	100		101.63	mg/L	102	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.3	0.3			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	67.98862		71.03	mg/L	104	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	67.98862	175	239.4	mg/L	95	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	67.98862	175	240.4	mg/L	96	85	115	0	20	

Chloride SM4500Cl-E

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382794													
WG382794ICB	ICB	04/30/15 9:25				U	mg/L		-1.5	1.5			
WG382794ICV	ICV	04/30/15 9:25	WI141103-1	54.835		56.73	mg/L	103	90	110			
WG382794LFB1	LFB	04/30/15 10:50	WI141209-1	30		30.51	mg/L	102	90	110			
WG382794LFB2	LFB	04/30/15 10:59	WI141209-1	30		30.53	mg/L	102	90	110			
L23936-03AS	AS	04/30/15 10:59	WI141209-1	30	49.2	75.3	mg/L	87	90	110			M2
L23936-04DUP	DUP	04/30/15 10:59			43.4	43.84	mg/L				1	20	

Chromium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		1.993	mg/L	100	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.03	0.03			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.5005		.493	mg/L	99	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.5005	U	.489	mg/L	98	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.5005	U	.487	mg/L	97	85	115	0	20	

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ACZ Project ID: ***L23961***

Cobalt, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2.002		2.034	mg/L	102	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.03	0.03			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.5005		.504	mg/L	101	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.5005	U	.495	mg/L	99	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.5005	U	.492	mg/L	98	85	115	1	20	

Conductivity @25C SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382505													
WG382505LCSW2	LCSW	04/25/15 10:37	PCN46666	1409		1480	umhos/cm	105	90	110			
WG382505LCSW5	LCSW	04/25/15 13:21	PCN46666	1409		1450	umhos/cm	103	90	110			
WG382505LCSW8	LCSW	04/25/15 16:35	PCN46666	1409		1440	umhos/cm	102	90	110			
WG382505LCSW11	LCSW	04/25/15 20:09	PCN46666	1409		1430	umhos/cm	101	90	110			
L23963-03DUP	DUP	04/25/15 21:58			488	487	umhos/cm				0	20	
WG382505LCSW14	LCSW	04/25/15 23:45	PCN46666	1409		1410	umhos/cm	100	90	110			
WG382589													
WG382589LCSW2	LCSW	04/27/15 17:06	PCN46666	1409		1480	umhos/cm	105	90	110			
L23966-02DUP	DUP	04/27/15 20:34			540	538	umhos/cm				0	20	
WG382589LCSW5	LCSW	04/27/15 20:39	PCN46666	1409		1470	umhos/cm	104	90	110			
WG382589LCSW8	LCSW	04/27/15 23:39	PCN46666	1409		1470	umhos/cm	104	90	110			
WG382589LCSW11	LCSW	04/28/15 2:49	PCN46666	1409		1460	umhos/cm	104	90	110			
WG382589LCSW14	LCSW	04/28/15 4:28	PCN46666	1409		1460	umhos/cm	104	90	110			

Copper, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.012	mg/L	101	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.03	0.03			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.499		.507	mg/L	102	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.499	U	.509	mg/L	102	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.499	U	.505	mg/L	101	85	115	1	20	

Cyanide, total M335.4 - Colorimetric w/ distillation

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382930													
WG382930ICV	ICV	05/04/15 15:40	WI150423-7	.3003		.3043	mg/L	101	90	110			
WG382930ICB	ICB	05/04/15 15:41				U	mg/L		-0.003	0.003			
WG382937													
WG382907LRB	LRB	05/04/15 16:18				U	mg/L		-0.003	0.003			
WG382907LFB	LFB	05/04/15 16:19	WI150423-4	.2		.1967	mg/L	98	90	110			
L23961-01DUP	DUP	05/04/15 16:20			.027	.0272	mg/L				1	20	RA
L23961-02LFM	LFM	05/04/15 16:45	WI150423-4	.2	.7	.84	mg/L	70	90	110			M2

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Fluoride SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382694													
WG382694ICV	ICV	04/29/15 10:32	WC150422-1	2		1.921	mg/L	96	95	105			
WG382694ICB	ICB	04/29/15 10:40				U	mg/L		-0.15	0.15			
WG382694LFB1	LFB	04/29/15 10:48	WC150209-7	5.015		4.816	mg/L	96	90	110			
L23948-03AS	AS	04/29/15 12:17	WC150209-7	5.015	.08	4.907	mg/L	96	90	110			
L23948-03DUP	DUP	04/29/15 12:21			.08	.084	mg/L				5	20	RA
WG382694LFB2	LFB	04/29/15 13:11	WC150209-7	5.015		4.794	mg/L	96	90	110			
L23961-02AS	AS	04/29/15 13:18	WC150209-7	5.015	.23	4.907	mg/L	93	90	110			
L23961-02DUP	DUP	04/29/15 13:22			.23	.233	mg/L				1	20	RA

Iron, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.033	mg/L	102	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.06	0.06			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	1.0001		1.036	mg/L	104	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	1.0001	2.3	3.201	mg/L	91	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	1.0001	2.3	3.212	mg/L	92	85	115	0	20	

Lead, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.05157	mg/L	103	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0003	0.0003			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.05005		.04866	mg/L	97	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.05005	U	.04843	mg/L	97	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.05005	U	.04834	mg/L	97	70	130	0	20	

Magnesium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	100		98.43	mg/L	98	95	105			
WG382618ICB	ICB	04/28/15 12:31				.32	mg/L		-0.6	0.6			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	50.00339		48.92	mg/L	98	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	50.00339	53.2	100.5	mg/L	95	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	50.00339	53.2	100.5	mg/L	95	85	115	0	20	

Manganese, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.0125	mg/L	101	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.015	0.015			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.499		.4978	mg/L	100	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.499	.074	.563	mg/L	98	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.499	.074	.5614	mg/L	98	85	115	0	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Mercury, dissolved M245.1 CVAA

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382738													
WG382738ICV	ICV	04/30/15 10:42	II150422-1	.005		.00484	mg/L	97	95	105			
WG382738ICB	ICB	04/30/15 10:44				U	mg/L		-0.0002	0.0002			
WG382747													
WG382747LRB	LRB	04/30/15 12:04				U	mg/L		-0.00044	0.00044			
WG382747LFB	LFB	04/30/15 12:06	II150416-2	.002		.00181	mg/L	91	85	115			
L23961-03LFM	LFM	04/30/15 12:48	II150416-2	.002	U	.00184	mg/L	92	85	115			
L23961-03LFMD	LFMD	04/30/15 12:54	II150416-2	.002	U	.00177	mg/L	89	85	115	4	20	

Molybdenum, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.085	mg/L	104	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.06	0.06			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.4995		.534	mg/L	107	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.4995	4.27	4.62	mg/L	70	85	115			M3
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.4995	4.27	4.606	mg/L	67	85	115	0	20	M3

Nickel, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		2.0408	mg/L	102	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.024	0.024			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.501		.5147	mg/L	103	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.501	U	.5047	mg/L	101	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.501	U	.5024	mg/L	100	85	115	0	20	

Nitrate/Nitrite as N M353.2 - H2SO4 preserved

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382820													
WG382820ICV	ICV	04/30/15 18:33	WI150422-7	2.416		2.474	mg/L	102	90	110			
WG382820ICB	ICB	04/30/15 18:34				U	mg/L		-0.06	0.06			
WG382824													
WG382824LFB	LFB	04/30/15 23:05	WI141226-3	2		1.885	mg/L	94	90	110			
L23957-03AS	AS	04/30/15 23:08	WI141226-3	2	.15	2.054	mg/L	95	90	110			
L23959-01DUP	DUP	04/30/15 23:43			5.61	5.592	mg/L				0	20	

pH (lab) SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382589													
WG382589LCSW1	LCSW	04/27/15 17:05	PCN46943	6.01		6.1	units	101	5.9	6.1			
L23966-02DUP	DUP	04/27/15 20:34			7.9	7.8	units				1	20	
WG382589LCSW4	LCSW	04/27/15 20:37	PCN46943	6.01		6.1	units	101	5.9	6.1			
WG382589LCSW7	LCSW	04/27/15 23:37	PCN46943	6.01		6.1	units	101	5.9	6.1			
WG382589LCSW10	LCSW	04/28/15 2:48	PCN46943	6.01		6.1	units	101	5.9	6.1			

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Potassium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	20		20.01	mg/L	100	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.6	0.6			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	99.93386		99.12	mg/L	99	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	99.93386	8.7	108.4	mg/L	100	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	99.93386	8.7	107.8	mg/L	99	85	115	1	20	

Residue, Filterable (TDS) @180C SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382503													
WG382503PBW	PBW	04/24/15 15:30				U	mg/L		-20	20			
WG382503LCSW	LCSW	04/24/15 15:32	PCN48327	260		244	mg/L	94	80	120			
L23961-03DUP	DUP	04/24/15 16:30			2980	3010	mg/L				1	10	
WG382572													
WG382572PBW	PBW	04/27/15 13:15				U	mg/L		-20	20			
WG382572LCSW	LCSW	04/27/15 13:17	PCN48327	260		260	mg/L	100	80	120			
L23972-03DUP	DUP	04/27/15 14:15			228	226	mg/L				1	10	

Selenium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.05171	mg/L	103	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0003	0.0003			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.05015		.05025	mg/L	100	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.05015	.0008	.05309	mg/L	104	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.05015	.0008	.05254	mg/L	103	70	130	1	20	

Sodium, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	100		98.93	mg/L	99	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.6	0.6			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	100.0188		98.47	mg/L	98	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	100.0188	214	306.8	mg/L	93	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	100.0188	214	305.8	mg/L	92	85	115	0	20	

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382628													
WG382628ICB	ICB	04/28/15 9:47				U	mg/L		-3	3			
WG382628ICV	ICV	04/28/15 9:47	WI150424-6	20		19.7	mg/L	99	90	110			
WG382628LFB	LFB	04/28/15 11:08	WI150302-1	10.01		9.2	mg/L	92	90	110			
L23959-01DUP	DUP	04/28/15 11:55			968	1010	mg/L				4	20	RA
L23959-02AS	AS	04/28/15 11:55	SO4TURB	10	1220	1220	mg/L	0	90	110			M3

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Thallium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.052	mg/L	104	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0003	0.0003			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.0501		.04873	mg/L	97	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.0501	U	.04864	mg/L	97	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.0501	U	.04891	mg/L	98	70	130	1	20	

Uranium, dissolved M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382945													
WG382945ICV	ICV	05/05/15 7:17	MS150312-3	.05		.05347	mg/L	107	90	110			
WG382945ICB	ICB	05/05/15 7:20				U	mg/L		-0.0003	0.0003			
WG382945LFB	LFB	05/05/15 7:23	MS150429-2	.05		.05087	mg/L	102	85	115			
L23968-01AS	AS	05/05/15 7:42	MS150429-2	.05	.0014	.0544	mg/L	106	70	130			
L23968-01ASD	ASD	05/05/15 7:45	MS150429-2	.05	.0014	.05439	mg/L	106	70	130	0	20	

Zinc, dissolved M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382618													
WG382618ICV	ICV	04/28/15 12:25	II150418-3	2		1.963	mg/L	98	95	105			
WG382618ICB	ICB	04/28/15 12:31				U	mg/L		-0.03	0.03			
WG382618LFB	LFB	04/28/15 12:44	II150425-2	.5005		.52	mg/L	104	85	115			
L23960-02AS	AS	04/28/15 13:05	II150425-2	.5005	.14	.62	mg/L	98	85	115			
L23960-02ASD	ASD	04/28/15 13:09	II150425-2	.5005	.14	.619	mg/L	98	85	115	0	20	

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23961-01	WG382618	Molybdenum, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG382589	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382794	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG382505	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG382937	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382694	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382824	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	Q6	Sample was received above recommended temperature.
	WG382589	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG382503	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG382628	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
			D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23961-02	WG382618	Molybdenum, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG382589	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382794	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG382505	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG382937	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382694	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382824	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	Q6	Sample was received above recommended temperature.
	WG382589	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG382503	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG382628	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
			D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23961-03	WG382618	Molybdenum, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG382589	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382794	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG382589	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
			SM2510B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
	WG382937	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382694	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382824	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	Q6	Sample was received above recommended temperature.
	WG382589	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
			SM4500H+ B	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG382503	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG382628	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
			D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.
			SM2320B - Titration	ZW	Method deviation. The sample was centrifuged prior to analysis due to high solid content.

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23961-04	WG382618	Molybdenum, dissolved	M200.7 ICP	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG382589	Bicarbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
		Carbonate as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382794	Chloride	SM4500Cl-E	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			SM4500Cl-E	Q6	Sample was received above recommended temperature.
	WG382589	Conductivity @25C	SM2510B	Q6	Sample was received above recommended temperature.
	WG382937	Cyanide, total	M335.4 - Colorimetric w/ distillation	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M335.4 - Colorimetric w/ distillation	Q6	Sample was received above recommended temperature.
			M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382694	Fluoride	SM4500F-C	Q6	Sample was received above recommended temperature.
			SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Hydroxide as CaCO3	SM2320B - Titration	Q6	Sample was received above recommended temperature.
	WG382824	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	Q6	Sample was received above recommended temperature.
	WG382589	pH	SM4500H+ B	Q6	Sample was received above recommended temperature.
		pH measured at	SM4500H+ B	Q6	Sample was received above recommended temperature.
	WG382572	Residue, Filterable (TDS) @180C	SM2540C	Q6	Sample was received above recommended temperature.
	WG382628	Sulfate	D516-02/-07 - Turbidimetric	M3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	Q6	Sample was received above recommended temperature.
			D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG382589	Total Alkalinity	SM2320B - Titration	Q6	Sample was received above recommended temperature.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-14

ACZ Sample ID: ***L23961-01***
Date Sampled: *04/21/15 9:09*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5030C**

Workgroup: WG382812
Analyst: pml
Extract Date: 04/30/15 17:10
Analysis Date: 04/30/15 17:10

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	4
Ethylbenzene	100-41-4		U	1	*	ug/L	4	4
m p Xylene	1330-20-7		U	1	*	ug/L	10	10
o Xylene	95-47- 6		U	1	*	ug/L	4	4
Toluene	108-88-3		U	1	*	ug/L	4	4
Total Xylene			U	1	*	ug/L	10	10
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	460-00-4	99.4		1	*	%	70	130
Dibromofluoromethane	1868-53-7	101.4		1	*	%	70	130
Toluene-d8	2037-26-5	98.2		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-28

ACZ Sample ID: ***L23961-02***
Date Sampled: *04/21/15 10:27*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5030C**

Workgroup: WG382812
Analyst: pml
Extract Date: 04/30/15 17:37
Analysis Date: 04/30/15 17:37

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	4
Ethylbenzene	100-41-4		U	1	*	ug/L	4	4
m p Xylene	1330-20-7		U	1	*	ug/L	10	10
o Xylene	95-47- 6		U	1	*	ug/L	4	4
Toluene	108-88-3		U	1	*	ug/L	4	4
Total Xylene			U	1	*	ug/L	10	10
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	460-00-4	98.9		1	*	%	70	130
Dibromofluoromethane	1868-53-7	101.4		1	*	%	70	130
Toluene-d8	2037-26-5	97.8		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-29

ACZ Sample ID: ***L23961-03***
Date Sampled: *04/21/15 11:53*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5030C**

Workgroup: WG382812
Analyst: pml
Extract Date: 04/30/15 18:03
Analysis Date: 04/30/15 18:03

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	4
Ethylbenzene	100-41-4		U	1	*	ug/L	4	4
m p Xylene	1330-20-7		U	1	*	ug/L	10	10
o Xylene	95-47- 6		U	1	*	ug/L	4	4
Toluene	108-88-3		U	1	*	ug/L	4	4
Total Xylene			U	1	*	ug/L	10	10
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	460-00-4	98.8		1	*	%	70	130
Dibromofluoromethane	1868-53-7	101.5		1	*	%	70	130
Toluene-d8	2037-26-5	98.3		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-16W

ACZ Sample ID: ***L23961-04***
Date Sampled: *04/21/15 12:32*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**
Extract Method: **5030C**

Workgroup: WG382812
Analyst: pml
Extract Date: 04/30/15 18:30
Analysis Date: 04/30/15 18:30

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	4
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	4
Ethylbenzene	100-41-4		U	1	*	ug/L	4	4
m p Xylene	1330-20-7		U	1	*	ug/L	10	10
o Xylene	95-47- 6		U	1	*	ug/L	4	4
Toluene	108-88-3		U	1	*	ug/L	4	4
Total Xylene			U	1	*	ug/L	10	10
Surrogate Recoveries	**CAS**	**% Recovery**		**Dilution**	**XQ**	**Units**	**LCL**	**UCL**
Bromofluorobenzene	460-00-4	99.5		1	*	%	70	130
Dibromofluoromethane	1868-53-7	103.1		1	*	%	70	130
Toluene-d8	2037-26-5	98.2		1	*	%	70	130

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
LCL	Lower Control Limit
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #4) Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Amount of the true value or spike added recovered, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
UCL	Upper Control Limit
Sample	Value of the Sample of interest

QC Sample Types

SURR	Surrogate	*LFM*	Laboratory Fortified Matrix
INTS	Internal Standard	*LFMD*	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate	*LRB*	Laboratory Reagent Blank
LCSS	Laboratory Control Sample - Soil	*MS/MSD*	Matrix Spike/Matrix Spike Duplicate
LCSW	Laboratory Control Sample - Water	*PBS*	Prep Blank - Soil
LFB	Laboratory Fortified Blank	*PBW*	Prep Blank - Water

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
O	Analyte concentration is estimated due to result exceeding calibration range.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
J	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Water and Wastes, March 1983.
(2)	EPA 600/4-90/020. Methods for the Determination of Organic Compounds in Drinking Water (I), July 1990.
(3)	EPA 600/R-92/129. Methods for the Determination of Organic Compounds in Drinking Water (II), July 1990.
(4)	EPA SW-846. Test Methods for Evaluating Solid Waste.
(5)	Standard Methods for the Examination of Water and Wastewater.

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Excluding Oil & Grease, solid & biological matrices for organic analyses are reported on a wet weight basis.
(3)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(4)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23961***

Volatile Organics by GC/MS

M8260B GC/MS

WG382812

AS **Sample ID: L23960-01AS** **PCN/SCN: V150429-1-CCV/** **Analyzed: 04/30/15 15:52**

Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE	24.8	U	27.9	ug/L	113.0	70	130			QO
CARBON DISULFIDE	24.9	U	28.2	ug/L	113.0	70	130			QO
ETHYLBENZENE	24.8	U	27.8	ug/L	112.0	70	130			QO
M P XYLENE	49.5	U	55	ug/L	111.0	70	130			QO
O XYLENE	25.4	U	27.1	ug/L	107.0	70	130			QO
TOLUENE	24.8	U	27.6	ug/L	111.0	70	130			QO
BROMOFLUOROBENZENE (surr)				%	99.2	70	130			QO
DIBROMOFLUOROMETHANE (surr)				%	101.2	70	130			QO
TOLUENE-D8 (surr)				%	99.4	70	130			QO

DUP **Sample ID: L23960-02DUP** **Analyzed: 04/30/15 16:44**

Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE		U	U	ug/L				0	20	QN RA
CARBON DISULFIDE		U	U	ug/L				0	20	QN RA
ETHYLBENZENE		U	U	ug/L				0	20	QN RA
M P XYLENE		U	U	ug/L				0	20	QN RA
O XYLENE		U	U	ug/L				0	20	QN RA
TOLUENE		U	U	ug/L				0	20	QN RA
BROMOFLUOROBENZENE (surr)				%	98.9	70	130			QN
DIBROMOFLUOROMETHANE (surr)				%	100.7	70	130			QN
TOLUENE-D8 (surr)				%	98.0	70	130			QN

LCSW **Sample ID: WG382812LCSW** **PCN/SCN: V150429-1-CCV/** **Analyzed: 04/30/15 13:30**

Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE	24.8		25.1	ug/L	101.0	70	130			
CARBON DISULFIDE	24.9		25.1	ug/L	101.0	70	130			
ETHYLBENZENE	24.8		25.5	ug/L	103.0	70	130			
M P XYLENE	49.5		51	ug/L	103.0	70	130			
O XYLENE	25.4		24.8	ug/L	98.0	70	130			
TOLUENE	24.8		25.2	ug/L	102.0	70	130			
BROMOFLUOROBENZENE (surr)				%	98.8	70	130			
DIBROMOFLUOROMETHANE (surr)				%	98.7	70	130			
TOLUENE-D8 (surr)				%	98.7	70	130			

LCSWD **Sample ID: WG382812LCSWD** **PCN/SCN: V150429-1-CCV/** **Analyzed: 04/30/15 13:57**

Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE	24.8		24.7	ug/L	100.0	70	130	2	20	
CARBON DISULFIDE	24.9		24.4	ug/L	98.0	70	130	3	20	
ETHYLBENZENE	24.8		25.1	ug/L	101.0	70	130	2	20	
M P XYLENE	49.5		50	ug/L	101.0	70	130	2	20	
O XYLENE	25.4		24.8	ug/L	98.0	70	130	0	20	
TOLUENE	24.8		24.8	ug/L	100.0	70	130	2	20	
BROMOFLUOROBENZENE (surr)				%	99.3	70	130			
DIBROMOFLUOROMETHANE (surr)				%	100.0	70	130			

TOLUENE-D8 (surr)				%	99.6	70	130		

PBW **Sample ID: WG382812PBW** **Analyzed: 04/30/15 14:23**

Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE			U	ug/L		-4	4			
CARBON DISULFIDE			U	ug/L		-4	4			
ETHYLBENZENE			U	ug/L		-4	4			
M P XYLENE			U	ug/L		-10	10			
O XYLENE			U	ug/L		-4	4			
TOLUENE			U	ug/L		-4	4			
BROMOFLUOROBENZENE (surr)				%	99.0	70	130			
DIBROMOFLUOROMETHANE (surr)				%	100.5	70	130			
TOLUENE-D8 (surr)				%	96.8	70	130			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23961-01	WG382812	*All Compounds*	M8260B GC/MS	Q6	Sample was received above recommended temperature.
			M8260B GC/MS	QN	The sample vial used for the batch duplicate QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	QO	The sample vial used for the batch spike QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23961-02	WG382812	*All Compounds*	M8260B GC/MS	Q3	Sample received with improper or inadequate chemical preservation.
			M8260B GC/MS	Q6	Sample was received above recommended temperature.
			M8260B GC/MS	QN	The sample vial used for the batch duplicate QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	QO	The sample vial used for the batch spike QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23961-03	WG382812	*All Compounds*	M8260B GC/MS	Q6	Sample was received above recommended temperature.
			M8260B GC/MS	QN	The sample vial used for the batch duplicate QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	QO	The sample vial used for the batch spike QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L23961-04	WG382812	*All Compounds*	M8260B GC/MS	Q3	Sample received with improper or inadequate chemical preservation.
			M8260B GC/MS	Q6	Sample was received above recommended temperature.
			M8260B GC/MS	QN	The sample vial used for the batch duplicate QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	QO	The sample vial used for the batch spike QC was received and analyzed with inadequate chemical preservation.
			M8260B GC/MS	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23961***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L23961
Date Received: 04/24/2015 09:32
Received By: ddp
Date Printed: 4/24/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]	X		
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?	X		
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?		X	
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA21664	8.1	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L23961
Date Received:	04/24/2015 09:32
Received By:	ddp
Date Printed:	4/24/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L23961

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES [ ] NO [ ]

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES [ ] NO [x]

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	Ambient							
MH-14	4/21/15 : 0909	GW	8	x							
MH-28	4/21/15 : 1027	GW	8	x							
MH-29	4/21/15 : 1153	GW	8	x							
MH-16W	4/21/15 : 1232	GW	8	x							

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

REMARKS

POC Wells
Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 139 8

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/23/15 : 1530	WRL	4/24/15 0830

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L23961 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 01, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Ben Daigneau, Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L23962

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 24, 2015. This project has been assigned to ACZ's project number, L23962. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L23962. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after May 31, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PZ-7

ACZ Sample ID: ***L23962-01***
Date Sampled: *04/21/15 06:52*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	434		*	mg/L	5	25	04/29/15 20:05	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-30

ACZ Sample ID: ***L23962-02***
Date Sampled: *04/21/15 08:17*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	100	1750		*	mg/L	50	250	04/29/15 20:23	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-1B

ACZ Sample ID: ***L23962-03***
Date Sampled: *04/22/15 07:25*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	987		*	mg/L	10	50	04/29/15 20:59	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-1A

ACZ Sample ID: ***L23962-04***
Date Sampled: *04/22/15 08:02*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	18.5		*	mg/L	0.5	2.5	04/29/15 21:35	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-1C

ACZ Sample ID: ***L23962-05***
Date Sampled: *04/22/15 09:13*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	42.4		*	mg/L	5	25	04/29/15 21:53	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13A

ACZ Sample ID: ***L23962-06***
Date Sampled: *04/22/15 11:18*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1100		*	mg/L	10	50	04/29/15 22:46	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13B

ACZ Sample ID: ***L23962-07***
Date Sampled: *04/22/15 12:28*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	903		*	mg/L	25	125	04/30/15 12:59	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MH-13C

ACZ Sample ID: ***L23962-08***
Date Sampled: *04/22/15 12:51*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	0.78	B	*	mg/L	0.5	2.5	04/29/15 23:22	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150422A

ACZ Sample ID: ***L23962-09***
Date Sampled: *04/22/15 00:00*
Date Received: *04/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1000		*	mg/L	25	125	04/30/15 13:17	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L23962***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382180													
WG382180ICV	ICV	04/20/15 17:16	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382180ICB	ICB	04/20/15 17:34				U	mg/L		-1.5	1.5			
WG382732													
WG382732LFB	LFB	04/29/15 15:54	WI150409-2	30		29.8	mg/L	99	90	110			
L23841-01DUP	DUP	04/29/15 16:30			3600	3600	mg/L				0	20	
L23841-02AS	AS	04/29/15 17:06	WI150409-2	600	774	1360	mg/L	98	90	110			
L23962-02DUP	DUP	04/29/15 20:41			1750	1760	mg/L				1	20	
L23962-03AS	AS	04/29/15 21:17	WI150409-2	600	987	1620	mg/L	106	90	110			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23962***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L23962-01	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-02	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-03	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-04	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-05	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-06	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-07	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-08	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L23962-09	WG382732	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L23962***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L23962
Date Received: 04/24/2015 09:32
Received By: ddp
Date Printed: 4/24/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA21664	8.1	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L23962
Date Received:	04/24/2015 09:32
Received By:	ddp
Date Printed:	4/24/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L23962

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
PZ-7	4/21/15 : 0652	GW	1	X							
MH-30	4/21/15 : 0817	GW	1	X							
MO-2007-1B	4/22/15 : 0725	GW	1	X							
MO-2007-1A	4/22/15 : 0802	GW	1	X							
MO-2007-1C	4/22/15 : 0913	GW	1	X							
MH-13A	4/22/15 : 1118	GW	1	X							
MH-13B	4/22/15 : 1228	GW	1	X							
MH-13C	4/22/15 : 1251	GW	1	X							
DUP20150422A	4/22/15 : 0000	GW	1	X							

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 139 8

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/23/15 : 1530		4/24/15 0930

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L23962 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 08, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Ben Daigneau, Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L24094

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 01, 2015. This project has been assigned to ACZ's project number, L24094. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L24094. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after June 07, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3B

ACZ Sample ID: ***L24094-01***
Date Sampled: *04/27/15 11:32*
Date Received: *05/01/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1		U	*	mg/L	0.5	2.5	05/06/15 17:42	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3C

ACZ Sample ID: ***L24094-02***
Date Sampled: *04/27/15 12:42*
Date Received: *05/01/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	40.1		*	mg/L	0.5	2.5	05/06/15 18:00	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: M-20

ACZ Sample ID: ***L24094-03***
Date Sampled: *04/27/15 14:15*
Date Received: *05/01/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1720		*	mg/L	25	125	05/06/15 18:18	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-5B

ACZ Sample ID: ***L24094-04***
Date Sampled: *04/28/15 11:25*
Date Received: *05/01/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	502		*	mg/L	5	25	05/06/15 18:36	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-5C

ACZ Sample ID: ***L24094-05***
Date Sampled: *04/29/15 12:51*
Date Received: *05/01/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	167		*	mg/L	2.5	12.5	05/06/15 18:54	tcd

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L24094***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG382180													
WG382180ICV	ICV	04/20/15 17:16	WI150331-4	50.05		50.8	mg/L	101	90	110			
WG382180ICB	ICB	04/20/15 17:34				U	mg/L		-1.5	1.5			
WG383058													
WG383058LFB	LFB	05/06/15 14:07	WI150409-2	30		31.5	mg/L	105	90	110			
L23972-03DUP	DUP	05/06/15 15:19			.51	U	mg/L				200	20	RA
L23996-02AS	AS	05/06/15 16:12	WI150409-2	30	U	31.8	mg/L	106	90	110			
L24094-05DUP	DUP	05/06/15 19:12			167	167	mg/L				0	20	
L24102-01AS	AS	05/06/15 19:47	WI150409-2	600	1270	1940	mg/L	112	90	110			M1

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L24094***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L24094-01	WG383058	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24094-02	WG383058	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24094-03	WG383058	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24094-04	WG383058	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24094-05	WG383058	Sulfate	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L24094***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L24094
Date Received: 05/01/2015 09:55
Received By: ddp
Date Printed: 5/1/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3615	2.5	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L24094
Date Received:	05/01/2015 09:55
Received By:	ddp
Date Printed:	5/1/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L24094

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jonathan_anderson@fmi.com	Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-3B	4/27/15 : 1132	GW	1	X							
MO-2007-3C	4/27/15 : 1242	GW	1	X							
M-20	4/27/15 : 1415	GW	1	X							
MO-2007-5B	4/28/15 : 1125	GW	1	X							
MO-2007-5C	4/29/15 : 1251	GW	1	X							

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to Sarina Martinez: sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 135 2

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	4/30/15 : 1530		5/1 0955

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L24094 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

May 26, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Jon Anderson

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L24352

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 15, 2015. This project has been assigned to ACZ's project number, L24352. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L24352. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after June 25, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CW-3

ACZ Sample ID: ***L24352-01***
Date Sampled: *05/11/15 07:40*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	71.4		*	mg/L	0.5	2.5	05/20/15 19:45	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: ESP-4

ACZ Sample ID: ***L24352-02***
Date Sampled: *05/12/15 08:56*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	423		*	mg/L	5	25	05/20/15 20:38	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: ESP-2

ACZ Sample ID: ***L24352-03***
Date Sampled: *05/12/15 10:05*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	29.1		*	mg/L	0.5	2.5	05/20/15 20:56	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: ESP-3

ACZ Sample ID: ***L24352-04***
Date Sampled: *05/12/15 10:48*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	36.4		*	mg/L	0.5	2.5	05/20/15 21:14	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CCGV

ACZ Sample ID: ***L24352-05***
Date Sampled: *05/13/15 09:25*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	102		*	mg/L	1	5	05/20/15 21:32	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: CCGV-2

ACZ Sample ID: ***L24352-06***
Date Sampled: *05/13/15 09:55*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	102			mg/L	1	5	05/20/15 21:50	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: HAVENGOLF

ACZ Sample ID: ***L24352-07***
Date Sampled: *05/13/15 10:40*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	253			mg/L	2.5	12.5	05/20/15 22:26	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150511A

ACZ Sample ID: ***L24352-08***
Date Sampled: *05/11/15 00:00*
Date Received: *05/15/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	70.0			mg/L	1	5	05/20/15 23:02	jlf

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L24352***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG383372													
WG383372ICV	ICV	05/11/15 18:33	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG383372ICB	ICB	05/11/15 18:51				U	mg/L		-1.5	1.5			
WG383826													
WG383826LFB1	LFB	05/20/15 17:21	WI150409-2	30		30.3	mg/L	101	90	110			
L24220-01DUP	DUP	05/20/15 17:57			U	U	mg/L				0	20	RA
L24220-02AS	AS	05/20/15 18:33	WI150409-2	30	.79	29.8	mg/L	97	90	110			
L24352-06DUP	DUP	05/20/15 22:08			102	102	mg/L				0	20	
L24352-07AS	AS	05/20/15 22:44	WI150409-2	150	253	397	mg/L	96	90	110			
WG383826LFB2	LFB	05/21/15 2:01	WI150409-2	30		30.4	mg/L	101	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L24352***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L24352-01	WG383826	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24352-02	WG383826	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24352-03	WG383826	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24352-04	WG383826	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L24352-05	WG383826	Sulfate	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L24352***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L24352
Date Received: 05/15/2015 10:03
Received By: ddp
Date Printed: 5/15/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3847	2.5	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
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Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L24352
Date Received:	05/15/2015 10:03
Received By:	ddp
Date Printed:	5/15/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L24352

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CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375
CW-3	5/11/15 : 0740	GW	1	X
ESP-4	5/12/15 : 0856	GW	1	X
ESP-2	5/12/15 : 1005	GW	1	X
ESP-3	5/12/15 : 1048	GW	1	X
CCGV	5/13/15 : 0925	GW	1	X
CCGV-2	5/13/15 : 0955	GW	1	X
HAVENGOLF	5/13/15 : 1040	GW	1	X
DUP20150511A	5/11/15 : 0000	GW	1	X

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 137 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/14/15 : 1530	LZ	5/15/15 10:03

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

July 02, 2015

Report to:
Jon Anderson
FMI Gold & Copper - Sierrita
6200 West Duval Mine Rd.
Green Valley, AZ 85614

cc: Sarina Martinez, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L25181

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on June 30, 2015. This project has been assigned to ACZ's project number, L25181. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25181. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after August 01, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: HAVENGOLF

ACZ Sample ID: ***L25181-01***
Date Sampled: *05/13/15 10:40*
Date Received: *06/30/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02/-07 - Turbidimetric	5	100.0	H	*	mg/L	5	25	06/30/15 14:41	mss2
Sulfate	M300.0 - Ion Chromatography	5	112	H	*	mg/L	2.5	12.5	07/01/15 5:52	bsu

Note: This report is for the re-analysis of the sample previously reported as ACZ project L24352-07.

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25181***

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386124													
WG386124ICB	ICB	06/30/15 11:01				U	mg/L		-3	3			
WG386124ICV	ICV	06/30/15 11:01	WI150629-4	20		19.6	mg/L	98	90	110			
WG386124LFB	LFB	06/30/15 14:24	WI150302-1	10.01		9.3	mg/L	93	90	110			
L25004-06DUP	DUP	06/30/15 14:33			U	U	mg/L				0	20	RA
L25008-01AS	AS	06/30/15 14:33	WI150302-1	100.1	32.7	144	mg/L	111	90	110			M1

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG386143													
WG386143LFB1	LFB	06/30/15 17:02	WI150409-2	30		30.2	mg/L	101	90	110			
WG386143LFB2	LFB	07/01/15 1:41	WI150409-2	30		30.2	mg/L	101	90	110			
L24836-03DUP	DUP	07/01/15 2:17			43.5	43.7	mg/L				0	20	
L24836-04AS	AS	07/01/15 3:29	WI150409-2	300	U	294	mg/L	98	90	110			

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Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25181***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L25181-01	WG386124	Sulfate	D516-02/-07 - Turbidimetric	H3	Sample was received and analyzed past holding time.
			D516-02/-07 - Turbidimetric	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG386143		M300.0 - Ion Chromatography	H3	Sample was received and analyzed past holding time.

ACZ Laboratories, Inc.
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Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25181***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L25181
Date Received: 06/30/2015 09:27
Received By: ear
Date Printed: 6/30/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?		X	

Some parameters were received past hold time.

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
UNKNOWN			

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L25181
Date Received:	06/30/2015 09:27
Received By:	ear
Date Printed:	6/30/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

#Rdog #L25181

ACZ Laboratories, Inc.

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

WPC 6-30-15

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375
CW-3	5/11/15 : 0740	GW	1	x
ESP-4	5/12/15 : 0856	GW	1	x
ESP-2	5/12/15 : 1005	GW	1	x
ESP-3	5/12/15 : 1048	GW	1	x
CCGV	5/13/15 : 0925	GW	1	x
CCGV-2	5/13/15 : 0955	GW	1	x
HAVENGOLF	5/13/15 : 1040	GW	1	x
DUP20150511A	5/11/15 : 0000	GW	1	x

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 137 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	5/14/15 : 1530		5/15/15 10:03

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L25181 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

July 16, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Jon Anderson

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L25249

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 06, 2015. This project has been assigned to ACZ's project number, L25249. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25249. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after August 15, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-6A

ACZ Sample ID: ***L25249-01***
Date Sampled: *07/02/15 10:53*
Date Received: *07/06/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	28.8		*	mg/L	0.5	2.5	07/15/15 0:19	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150702A

ACZ Sample ID: ***L25249-02***
Date Sampled: *07/02/15 00:00*
Date Received: *07/06/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	28.6		*	mg/L	0.5	2.5	07/14/15 16:51	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25249***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG386750													
WG386750LFB	LFB	07/14/15 15:40	WI150409-2	30		29.9	mg/L	100	90	110			
L25249-02AS	AS	07/14/15 17:09	WI150409-2	30	28.6	58.2	mg/L	99	90	110			
L25249-01DUP	DUP	07/15/15 0:37			28.8	28.9	mg/L				0	20	

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25249***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L25249-01	WG386750	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.
L25249-02	WG386750	Sulfate	M300.0 - Ion Chromatography	Q6	Sample was received above recommended temperature.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25249***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L25249
Date Received: 07/06/2015 09:54
Received By: ear
Date Printed: 7/6/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3640	18.7	16	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s) but was thawed by receipt at ACZ.

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L25249
Date Received:	07/06/2015 09:54
Received By:	ear
Date Printed:	7/6/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

D5249

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES ☐ NO ☐

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES ☐ NO ☒

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-6A	7/2/15 : 1053	GW	1	☒							
DUP20150702A	7/2/15 : 0000	GW	1	☒							

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 467 1

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/2/15 : 1530		7/6/15 : 54

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L25249 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

July 17, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Jon Anderson

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L25332

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 09, 2015. This project has been assigned to ACZ's project number, L25332. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25332. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after August 16, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3B

ACZ Sample ID: ***L25332-01***
Date Sampled: *07/07/15 10:08*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	1.37	B		mg/L	0.5	2.5	07/15/15 19:33	bsu

Arizona license number: AZ0102

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Analytical Results

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-3C

ACZ Sample ID: ***L25332-02***
Date Sampled: *07/07/15 11:18*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	35.2			mg/L	0.5	2.5	07/16/15 13:10	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2009-1

ACZ Sample ID: ***L25332-03***
Date Sampled: *07/07/15 13:02*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	78.1			mg/L	0.5	2.5	07/15/15 20:27	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4B

ACZ Sample ID: ***L25332-04***
Date Sampled: *07/08/15 09:26*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	16.6			mg/L	0.5	2.5	07/15/15 20:45	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4C

ACZ Sample ID: ***L25332-05***
Date Sampled: *07/08/15 09:48*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	64.3			mg/L	0.5	2.5	07/15/15 21:03	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MO-2007-4A

ACZ Sample ID: ***L25332-06***
Date Sampled: *07/08/15 10:02*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	40.2			mg/L	0.5	2.5	07/15/15 21:56	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150708A

ACZ Sample ID: ***L25332-07***
Date Sampled: *07/08/15 00:00*
Date Received: *07/09/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	40.1			mg/L	0.5	2.5	07/15/15 22:14	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25332***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG386882													
WG386882LFB1	LFB	07/15/15 18:39	WI150409-2	30		30.4	mg/L	101	90	110			
L25110-01DUP	DUP	07/15/15 19:15			109	109	mg/L				0	20	
L25332-01AS	AS	07/15/15 19:51	WI150409-2	30	1.37	31.8	mg/L	101	90	110			
WG386882LFB2	LFB	07/16/15 3:19	WI150409-2	30		30.4	mg/L	101	90	110			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25332***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25332***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L25332
Date Received: 07/09/2015 09:42
Received By: ddp
Date Printed: 7/9/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
2558	2.5	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L25332
Date Received:	07/09/2015 09:42
Received By:	ddp
Date Printed:	7/9/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

L25332

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

YES ☐ NO ☐

Are samples for CO DW Compliance Monitoring? If yes, please include state forms. Results will be reported to PQL.

YES ☐ NO ☒

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375
MO-2007-3B	7/7/15 : 1008	GW	1	☒
MO-2007-3C	7/7/15 : 1118	GW	1	☒
MO-2009-1	7/7/15 : 1302	GW	1	☒
MO-2007-4B	7/8/15 : 0926	GW	1	☒
M0-2007-4C	7/8/15 : 0948	GW	1	☒
MO-2007-4A	7/8/15 : 1002	GW	1	☒
DUP20150708A	7/8/15 : 0000	GW	1	☒

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 468 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/8/15 : 1530		7/9/15 9:42

L25332 Chain of Custody

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

July 28, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Jon Anderson, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L25570

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 18, 2015. This project has been assigned to ACZ's project number, L25570. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25570. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after August 27, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-4

ACZ Sample ID: ***L25570-01***
Date Sampled: *07/15/15 08:38*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1240		*	mg/L	10	50	07/24/15 20:33	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-1

ACZ Sample ID: ***L25570-02***
Date Sampled: *07/15/15 09:00*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1180		*	mg/L	10	50	07/24/15 20:51	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-2

ACZ Sample ID: ***L25570-03***
Date Sampled: *07/15/15 09:06*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1040		*	mg/L	10	50	07/24/15 21:09	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: PS-3

ACZ Sample ID: ***L25570-04***
Date Sampled: *07/15/15 09:16*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1040		*	mg/L	10	50	07/24/15 22:03	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-2

ACZ Sample ID: ***L25570-05***
Date Sampled: *07/15/15 10:26*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1850		*	mg/L	10	50	07/24/15 22:21	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-1

ACZ Sample ID: ***L25570-06***
Date Sampled: *07/15/15 10:48*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1810		*	mg/L	10	50	07/24/15 22:39	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-3

ACZ Sample ID: ***L25570-07***
Date Sampled: *07/15/15 10:57*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1560		*	mg/L	10	50	07/24/15 22:57	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-4

ACZ Sample ID: ***L25570-08***
Date Sampled: *07/15/15 11:06*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1260			mg/L	10	50	07/24/15 23:15	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-5

ACZ Sample ID: ***L25570-09***
Date Sampled: *07/15/15 11:16*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1430			mg/L	10	50	07/24/15 23:33	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-6

ACZ Sample ID: ***L25570-10***
Date Sampled: *07/15/15 11:25*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1220			mg/L	10	50	07/25/15 0:08	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-3

ACZ Sample ID: ***L25570-11***
Date Sampled: *07/15/15 11:38*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1410			mg/L	10	50	07/25/15 0:44	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-4

ACZ Sample ID: ***L25570-12***
Date Sampled: *07/15/15 11:50*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	96.7			mg/L	10	50	07/25/15 1:56	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: MC-2

ACZ Sample ID: ***L25570-13***
Date Sampled: *07/15/15 12:10*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1290			mg/L	10	50	07/25/15 2:14	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: FFS-1

ACZ Sample ID: ***L25570-14***
Date Sampled: *07/15/15 12:28*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1770			mg/L	10	50	07/25/15 2:32	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: DUP20150715A

ACZ Sample ID: ***L25570-15***
Date Sampled: *07/15/15 00:00*
Date Received: *07/18/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1260			mg/L	10	50	07/25/15 2:50	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25570***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG387420													
WG387420LFB1	LFB	07/24/15 15:11	WI150409-2	30		30.3	mg/L	101	90	110			
L25561-03AS	AS	07/24/15 19:57	WI150409-2	3000	3540	6420	mg/L	96	90	110			
L25561-03DUP	DUP	07/24/15 20:15			3540	3550	mg/L				0	20	
WG387420LFB2	LFB	07/24/15 23:50	WI150409-2	30		30.8	mg/L	103	90	110			
L25570-10DUP	DUP	07/25/15 0:26			1220	1220	mg/L				0	20	
L25570-11AS	AS	07/25/15 1:38	WI150409-2	600	1410	1990	mg/L	97	90	110			

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25570***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L25570-01	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-02	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-03	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-04	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-05	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-06	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
L25570-07	WG387420	Sulfate	M300.0 - Ion Chromatography	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25570***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L25570
Date Received: 07/18/2015 10:37
Received By: ear
Date Printed: 7/20/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
3691	4.8	9	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L25570
Date Received:	07/18/2015 10:37
Received By:	ear
Date Printed:	7/20/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

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

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
PS-4	7/15/15 : 0838	GW	1	X							
PS-1	7/15/15 : 0900	GW	1	X							
PS-2	7/15/15 : 0906	GW	1	X							
PS-3	7/15/15 : 0916	GW	1	X							
FFS-2	7/15/15 : 1026	GW	1	X							
MC-1	7/15/15 : 1048	GW	1	X							
FFS-3	7/15/15 : 1057	GW	1	X							
FFS-4	7/15/15 : 1106	GW	1	X							
FFS-5	7/15/15 : 1116	GW	1	X							
FFS-6	7/15/15 : 1125	GW	1	X							

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

REMARKS

Sulfates PAGE 1 OF 2

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 447 5

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/16/15 : 1530	CEF 7/16/15	1037

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L25570 Chain of Custody

ACZ Laboratories, Inc.

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

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MC-3	7/15/15 : 1138	GW	1	x							
MC-4	7/15/15 : 1150	GW	1	x							
MC-2	7/15/15 : 1210	GW	1	x							
FFS-1	7/15/15 : 1228	GW	1	x							
DUP20150715A	7/15/15 : 0000	GW	1	x							

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

REMARKS

Sulfates PAGE 2 OF 2

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 447 5

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/16/15 : 1530	CTF 7/16/15	1637

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 04, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Jon Anderson, Ben Daigneau

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS00000729
ACZ Project ID: L25671

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 24, 2015. This project has been assigned to ACZ's project number, L25671. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25671. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after September 03, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-1

ACZ Sample ID: ***L25671-01***
Date Sampled: *07/22/15 08:32*
Date Received: *07/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.8			mg/L	0.5	2.5	08/03/15 18:26	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS00000729
Sample ID: GV-2

ACZ Sample ID: ***L25671-02***
Date Sampled: *07/22/15 08:45*
Date Received: *07/24/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	49.8			mg/L	0.5	2.5	08/03/15 19:02	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25671***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG387882													
WG387882LFB	LFB	08/03/15 18:08	WI150409-2	30		30.4	mg/L	101	90	110			
L25671-01DUP	DUP	08/03/15 18:44			41.8	41.8	mg/L				0	20	
L25671-02AS	AS	08/03/15 19:19	WI150409-2	30	49.8	78.7	mg/L	96	90	110			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25671***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25671***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID: L25671
Date Received: 07/24/2015 10:29
Received By: ear
Date Printed: 7/24/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
NA22196	5.9	14	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS00000729

ACZ Project ID:	L25671
Date Received:	07/24/2015 10:29
Received By:	ear
Date Printed:	7/24/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc.

L25671

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

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
GV-1	7/22/15 : 0832	GW	1	X							
GV-2	7/22/15 : 0845	GW	1	X							

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 449 3

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/23/15 : 1530		7/24/15 10:20

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L25671 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 06, 2015

Report to:
Jeff Joy
FMI Gold & Copper - Sierrita
6200 W. Duval Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Sarina Martinez

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS0000079
ACZ Project ID: L25709

Jeff Joy:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on July 28, 2015. This project has been assigned to ACZ's project number, L25709. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25709. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after September 05, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: CW-10

ACZ Sample ID: ***L25709-01***
Date Sampled: *07/27/15 09:09*
Date Received: *07/28/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	55.1			mg/L	0.5	2.5	08/04/15 1:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: CW-9

ACZ Sample ID: ***L25709-02***
Date Sampled: *07/27/15 10:07*
Date Received: *07/28/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	49.0			mg/L	0.5	2.5	08/04/15 2:12	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: CW-6

ACZ Sample ID: ***L25709-03***
Date Sampled: *07/27/15 10:22*
Date Received: *07/28/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	94.8			mg/L	0.5	2.5	08/04/15 2:29	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: DUP20150727A

ACZ Sample ID: ***L25709-04***
Date Sampled: *07/27/15 00:00*
Date Received: *07/28/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	94.3			mg/L	0.5	2.5	08/04/15 15:29	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1) QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2) Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3) Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4) An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5) If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25709***

Sulfate M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG386037													
WG386037ICV	ICV	06/28/15 17:07	WI150331-4	50.05		50.9	mg/L	102	90	110			
WG386037ICB	ICB	06/28/15 17:25				U	mg/L		-1.5	1.5			
WG387882													
WG387882LFB	LFB	08/03/15 18:08	WI150409-2	30		30.4	mg/L	101	90	110			
L25683-01DUP	DUP	08/04/15 11:54			115	116	mg/L				1	20	
L25683-02AS	AS	08/04/15 12:30	WI150409-2	150	123	275	mg/L	101	90	110			
WG387921													
WG387921LFB	LFB	08/04/15 15:11	WI150409-2	30		29.7	mg/L	99	90	110			
L25713-01DUP	DUP	08/04/15 16:05			40900	43000	mg/L				5	20	
L25713-02AS	AS	08/04/15 16:41	WI150409-2	1500	1940	3470	mg/L	102	90	110			

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25709***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25709***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L25709
Date Received: 07/28/2015 10:02
Received By: kmo
Date Printed: 7/28/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4503	3.6	13	Yes

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L25709
Date Received:	07/28/2015 10:02
Received By:	kmo
Date Printed:	7/28/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

ACZ Laboratories, Inc. L25709

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

CHAIN of CUSTODY

Report to:

Name: Jeff Joy	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: jeff_joy@fmi.com	Telephone: 520-393-2269

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]

If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [X]

If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:

Project/PO #: ZS0000079

Reporting state for compliance testing:

Sampler's Name: Jeff Joy

Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
CW-10	7/27/15 : 0909	GW	1	X							
CW-9	7/27/15 : 1007	GW	1	X							
CW-6	7/27/15 : 1022	GW	1	X							
DUP20150727A	7/27/15 : 0000	GW	1	X							

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

REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to sarina_martinez@fmi.com (520-393-2592)
UPS Tracking # 1Z 867 7E4 23 1001 450 0

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/27/15 : 1530		7/28/15 1000

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

L25709 Chain of Custody

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Analytical Report

August 06, 2015

Report to:
Sarina Martinez
Freeport McMoRan Sierrita Inc.
6200 W Duvall Mine Road
Green Valley, AZ 85614

cc: Ben Daigneau, Jon Anderson

Bill to:
Accounts Payable
FMI Gold & Copper - Sierrita
P.O. Box 2671
Phoenix, AZ 85002-2671

Project ID: ZS0000079
ACZ Project ID: L25810

Sarina Martinez:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on August 04, 2015. This project has been assigned to ACZ's project number, L25810. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L25810. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

Except as noted, the test results for the methods and parameters listed on ACZ's current NELAC certificate letter (#ACZ) meet all requirements of NELAC.

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

All samples and sub-samples associated with this project will be disposed of after September 05, 2015. If the samples are determined to be hazardous, additional charges apply for disposal (typically $11/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical raw data reports for ten years.

If you have any questions or other needs, please contact your Project Manager.

S. Habermehl

Scott Habermehl has reviewed
and approved this report.

FMI Gold Copper - Sierrita

August 06, 2015

Project ID: ZS0000079
ACZ Project ID: L25810

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from FMI Gold & Copper - Sierrita on August 4, 2015. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L25810. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were performed within EPA recommended holding times.

Sample Analysis

This sample was analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. This project has been revised to report a re-analysis of Sulfate on L25570-12 (MC-4). Data changed significantly so no charges have been applied.

FMI Gold & Copper - Sierrita
Project ID: ZS0000079
Sample ID: MC-4

ACZ Sample ID: ***L25810-01***
Date Sampled: *07/15/15 11:50*
Date Received: *08/04/15*
Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02/-07 - Turbidimetric	120	1220		*	mg/L	120	600	08/04/15 10:35	bsu

Arizona license number: AZ0102

Report Header Explanations

Batch	A distinct set of samples analyzed at a specific time
Found	Value of the QC Type of interest
Limit	Upper limit for RPD, in %.
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)
MDL	Method Detection Limit. Same as Minimum Reporting Limit unless omitted or equal to the PQL (see comment #5). Allows for instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis
PQL	Practical Quantitation Limit. Synonymous with the EPA term "minimum level".
QC	True Value of the Control Sample or the amount added to the Spike
Rec	Recovered amount of the true value or spike added, in % (except for LCSS, mg/Kg)
RPD	Relative Percent Difference, calculation used for Duplicate QC Types
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)
Sample	Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

B	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
H	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
L	Target analyte response was below the laboratory defined negative threshold.
U	The material was analyzed for, but was not detected above the level of the associated value. The associated value is either the sample quantitation limit or the sample detection limit.

Method References

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

Comments

(1)	QC results calculated from raw data. Results may vary slightly if the rounded values are used in the calculations.
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses are reported on a dry weight basis.
(3)	Animal matrices for Inorganic analyses are reported on an "as received" basis.
(4)	An asterisk in the "XQ" column indicates there is an extended qualifier and/or certification qualifier associated with the result.
(5)	If the MDL equals the PQL or the MDL column is omitted, the PQL is the reporting limit.

For a complete list of ACZ's Extended Qualifiers, please click: http://www.acz.com/public/extquallist.pdf

REP001.03.15.02

FMI Gold & Copper - Sierrita

ACZ Project ID: ***L25810***

Sulfate D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG387906													
WG387906ICB	ICB	08/04/15 9:40				U	mg/L		-3	3			
WG387906ICV	ICV	08/04/15 9:40	WI150731-1	20		19.6	mg/L	98	90	110			
WG387906LFB	LFB	08/04/15 9:48	WI150302-1	10.01		10.1	mg/L	101	90	110			
L25758-01AS	AS	08/04/15 10:19	WI150302-1	10.01	23.5	33.4	mg/L	99	90	110			
L25743-01DUP	DUP	08/04/15 10:25			46.5	46.4	mg/L				0	20	RA

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Inorganic Extended Qualifier Report

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25810***

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L25810-01	WG387906	Sulfate	D516-02/-07 - Turbidimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

FMI Gold & Copper - Sierrita ACZ Project ID: ***L25810***

No certification qualifiers associated with this analysis

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID: L25810
Date Received: 08/04/2015 08:02
Received By: kmo
Date Printed: 8/4/2015

Receipt Verification

	YES	NO	NA
1) Is a foreign soil permit included for applicable samples?			X
2) Is the Chain of Custody or other directive shipping papers present?	X		
3) Does this project require special handling procedures such as CLP protocol?			X
4) Are any samples NRC licensable material?			X
5) If samples are received past hold time, proceed with requested short hold time analyses?	X		
6) Is the Chain of Custody complete and accurate?	X		
7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?		X	

Samples/Containers

	YES	NO	NA
8) Are all containers intact and with no leaks?	X		
9) Are all labels on containers and are they intact and legible?	X		
10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?	X		
11) For preserved bottle types, was the pH checked and within limits? [1]			X
12) Is there sufficient sample volume to perform all requested work?	X		
13) Is the custody seal intact on all containers?			X
14) Are samples that require zero headspace acceptable?			X
15) Are all sample containers appropriate for analytical requirements?	X		
16) Is there an Hg-1631 trip blank present?			X
17) Is there a VOA trip blank present?			X
18) Were all samples received within hold time?	X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
UNKNOWN			

Was ice present in the shipment container(s)?

Yes - Wet ice was present in the shipment container(s).

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

ACZ Laboratories, Inc.
2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493

Sample Receipt

FMI Gold & Copper - Sierrita
ZS0000079

ACZ Project ID:	L25810
Date Received:	08/04/2015 08:02
Received By:	kmo
Date Printed:	8/4/2015

[1] The preservation of the following bottle types is not checked at sample receipt: Orange (oil and grease), Purple (total cyanide), Pink (dissolved cyanide), Brown (arsenic speciation), Sterile (fecal coliform), EDTA (sulfite), HCl preserved vial (organics), Na2S2O3 preserved vial (organics), and HG-1631 (total/dissolved mercury by method 1631).

Relog L25810

ACZ Laboratories, Inc. ~~L25570~~ LRC 8415

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

CHAIN of CUSTODY

Report to:

Name: Sarina Martinez	Address: 6200 W. Duval Mine Road
Company: Freeport-McMoRan Sierrita Inc.	Green Valley, AZ 85614
E-mail: sarina_martinez@fmi.com	Telephone: 520-393-2592

Copy of Report to:

Name: Ben Daigneau	E-mail: bdaigneau@clearcreekassociates.com
Company: Clear Creek Associates	Telephone: 520-622-3222

Invoice to:

Name:	Address:
Company:	
E-mail:	Telephone:

If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? YES [ ] NO [ ]
If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.

Are samples for CO DW Compliance Monitoring? YES [ ] NO [x]
If yes, please include state forms. Results will be reported to PQL.

PROJECT INFORMATION

Quote #:
Project/PO #: ZS0000079
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

ANALYSES REQUESTED *(attach list or use quote number)*

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MC-3	7/15/15 : 1138	GW	1	x							
MC-4	7/15/15 : 1150	GW	1	x							
MC-2	7/15/15 : 1210	GW	1	x							
FFS-1	7/15/15 : 1228	GW	1	x							
DUP20150715A	7/15/15 : 0000	GW	1	x							

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

REMARKS

Sulfates PAGE 2 OF 2

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.
Please include copy of report to jonathan_anderson@fmi.com (520-393-2714)
UPS Tracking # 1Z 867 7E4 23 1001 447 5

Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
Jeff Joy	7/16/15 : 1530	CTF 7/16/15	1037

FRMAD050.01.15.09 White - Return with sample. Yellow - Retain for your records.

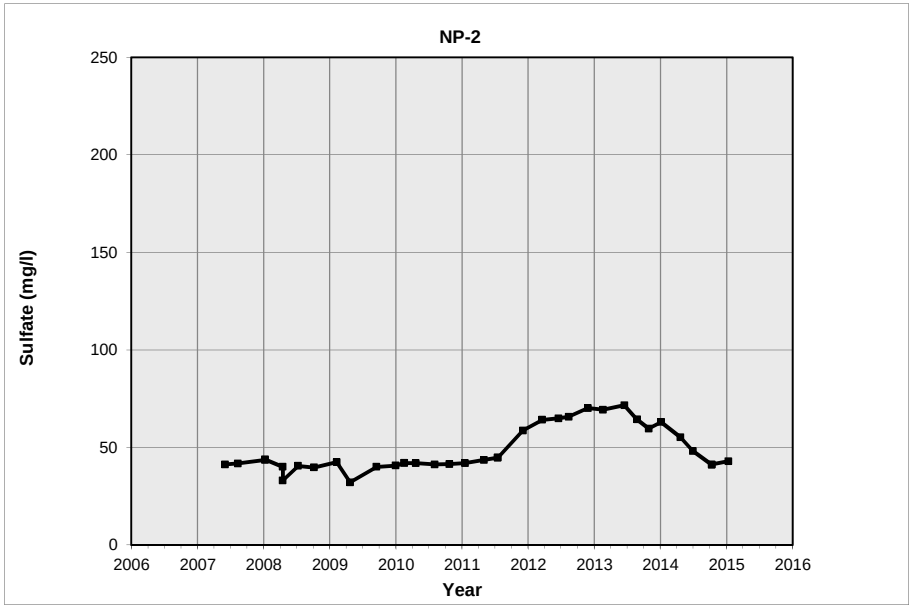
L25810 Chain of Custody

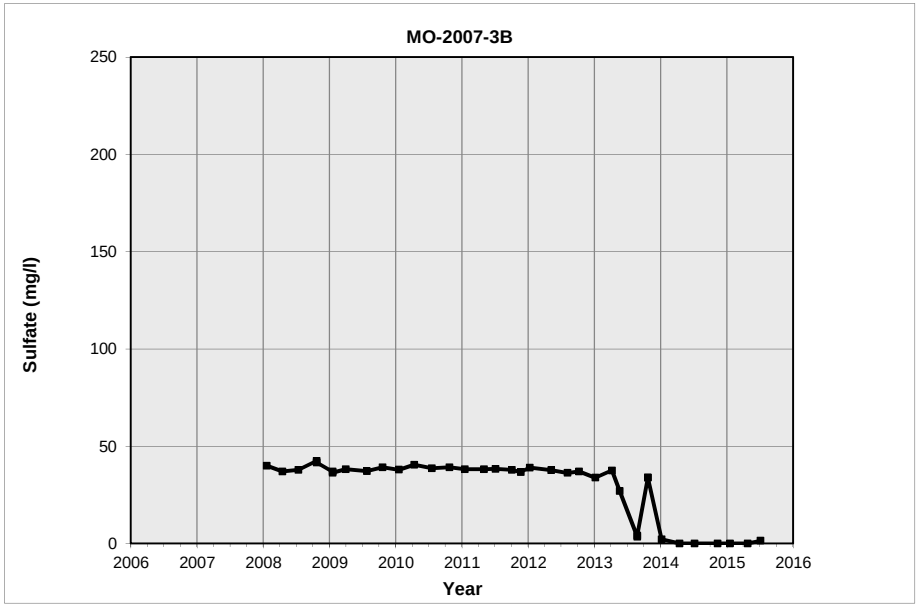
(1)

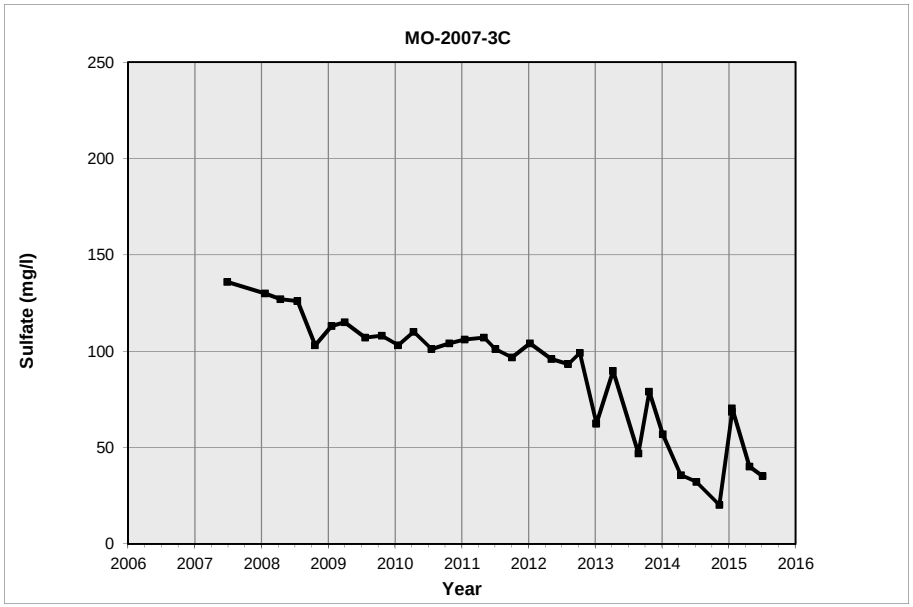
APPENDIX C

TIME SERIES GRAPHS OF SULFATE CONCENTRATION

FIGURE C.1
SULFATE CONCENTRATION OVER TIME FOR WELLS
NP-2, MO-2007-3B, MO-2007-3C, AND CW-9







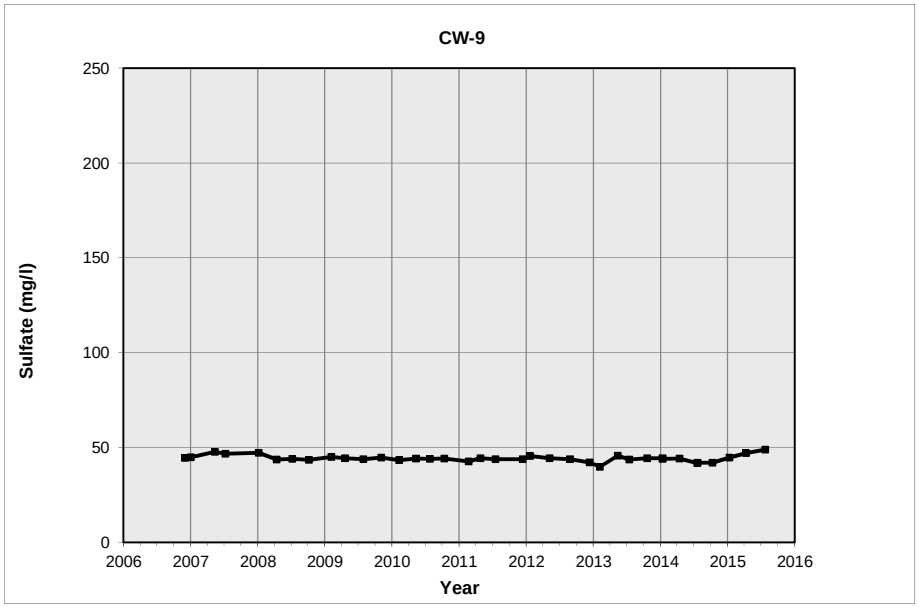
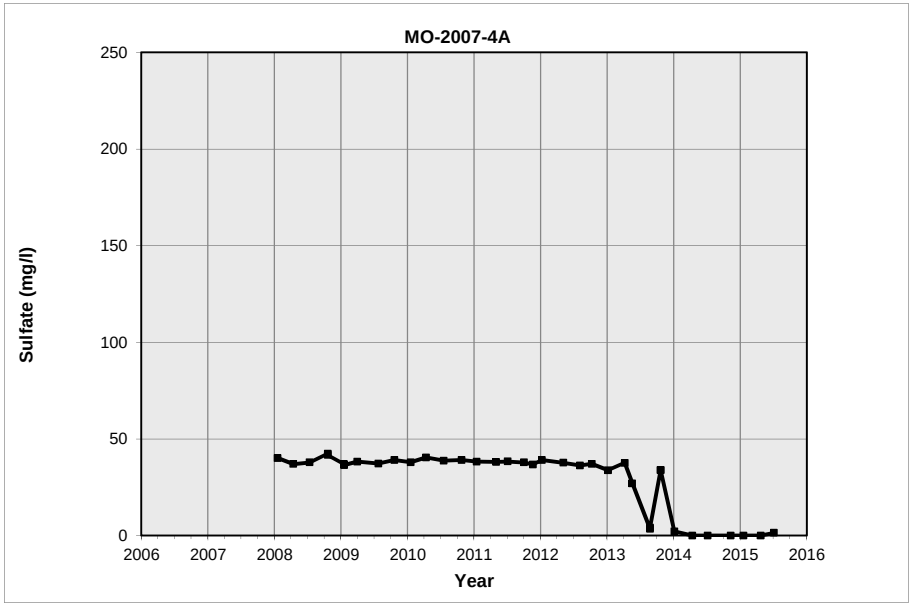
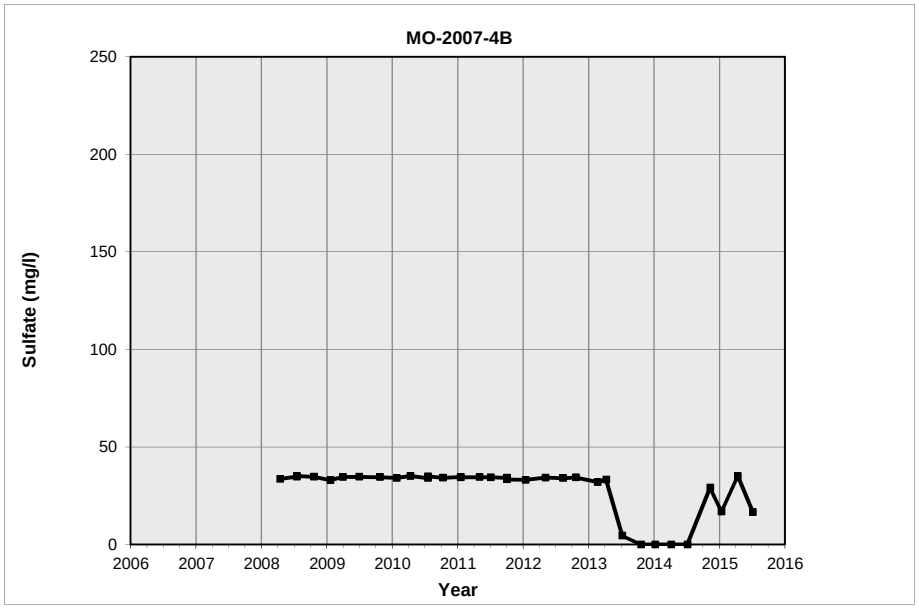
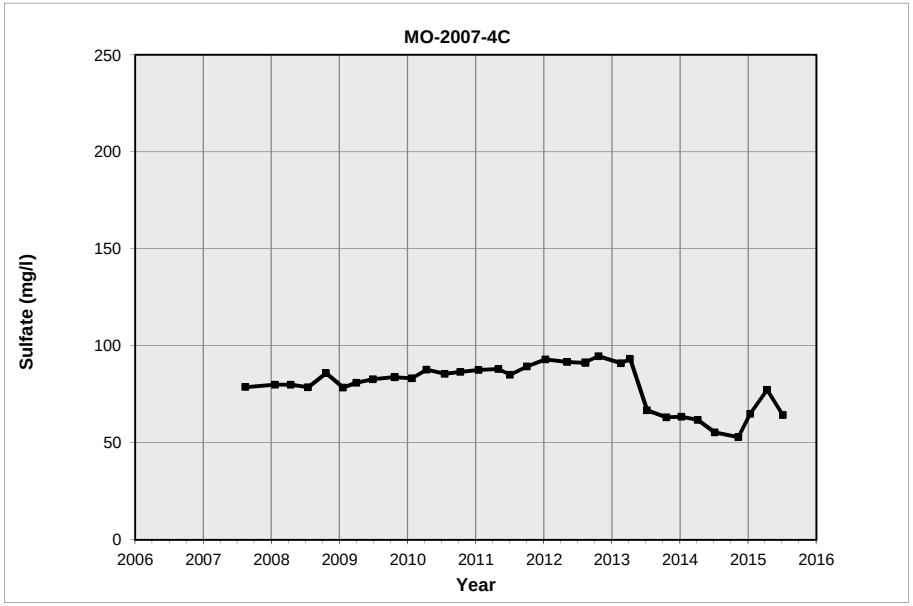


FIGURE C.2
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-4A, MO-2007-4B, MO-2007-4C, AND CW-6







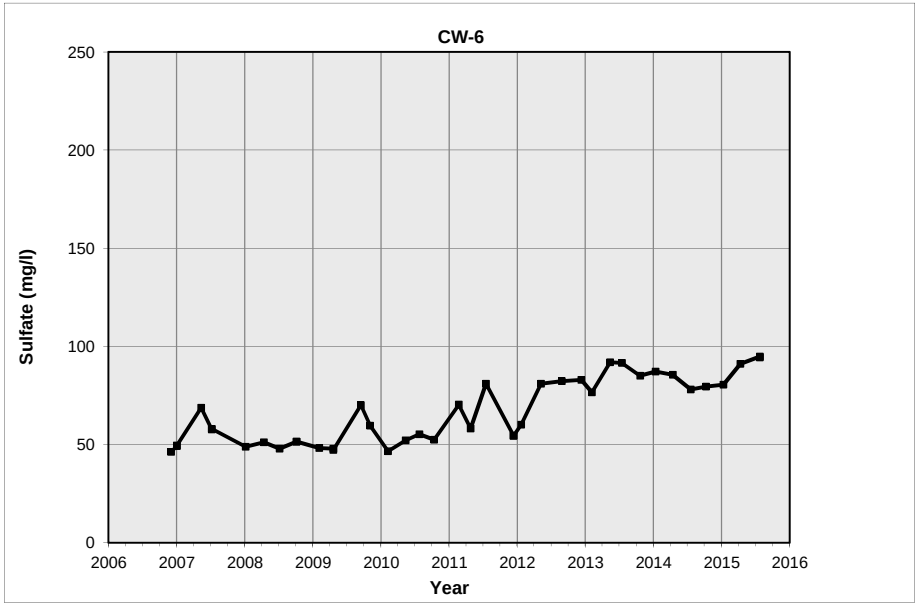
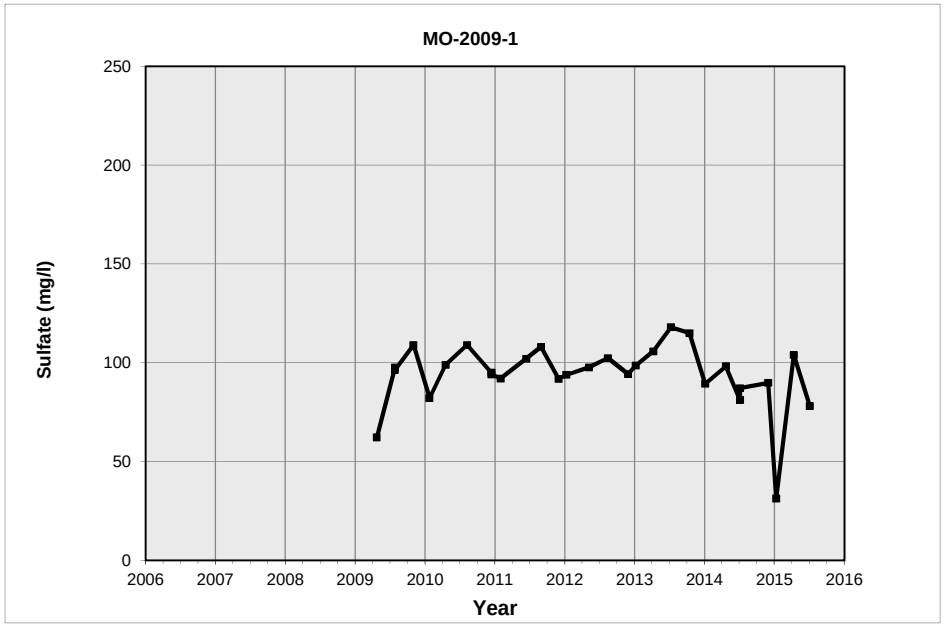


FIGURE C.3
SULFATE CONCENTRATION OVER TIME FOR WELLS MO-2009-1 AND CW-10



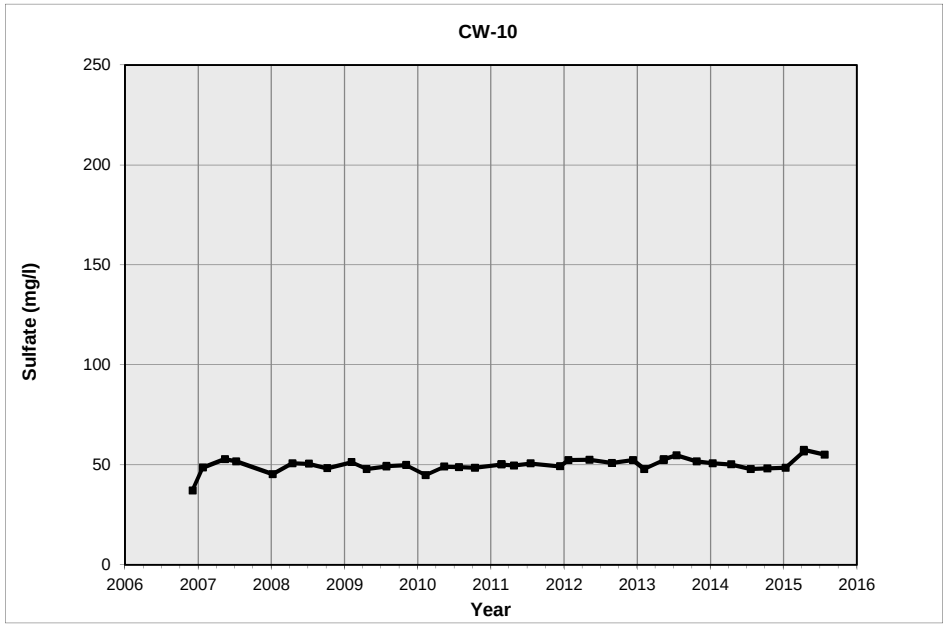


FIGURE C.4
SULFATE CONCENTRATION OVER TIME FOR WELLS
GV-01-GVDWID, GV-02-GVDWID, MO-2007-6A, AND MO-2007-6B

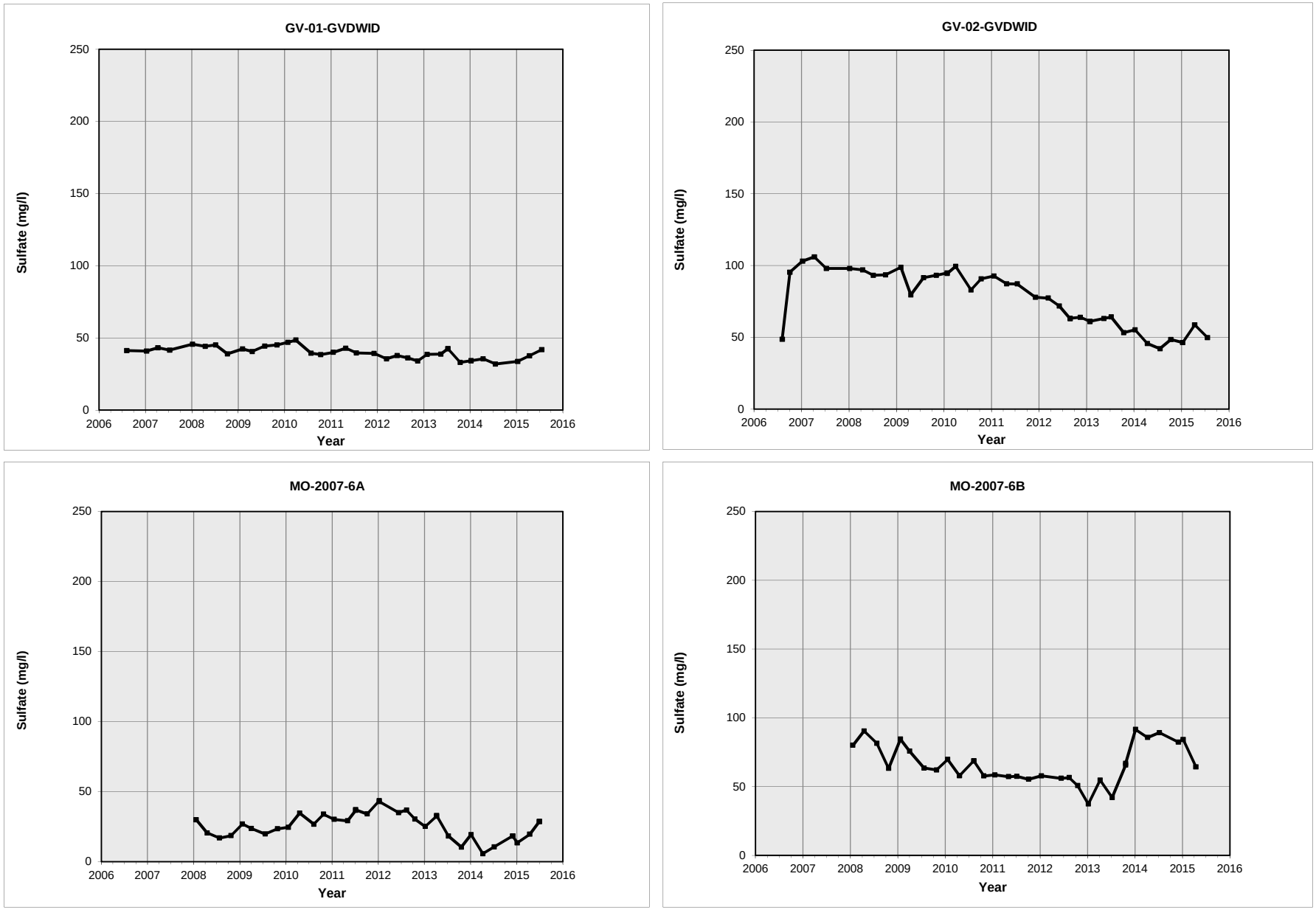
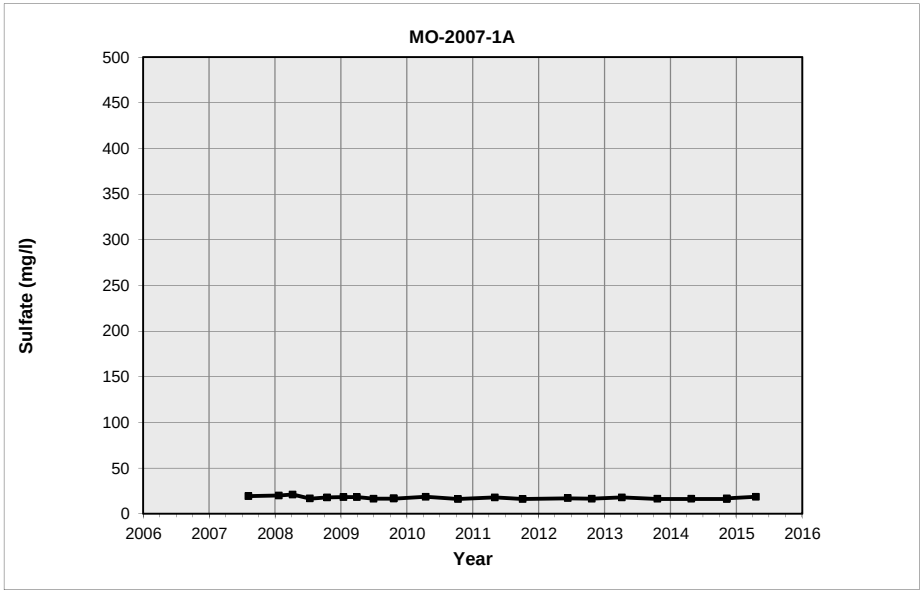
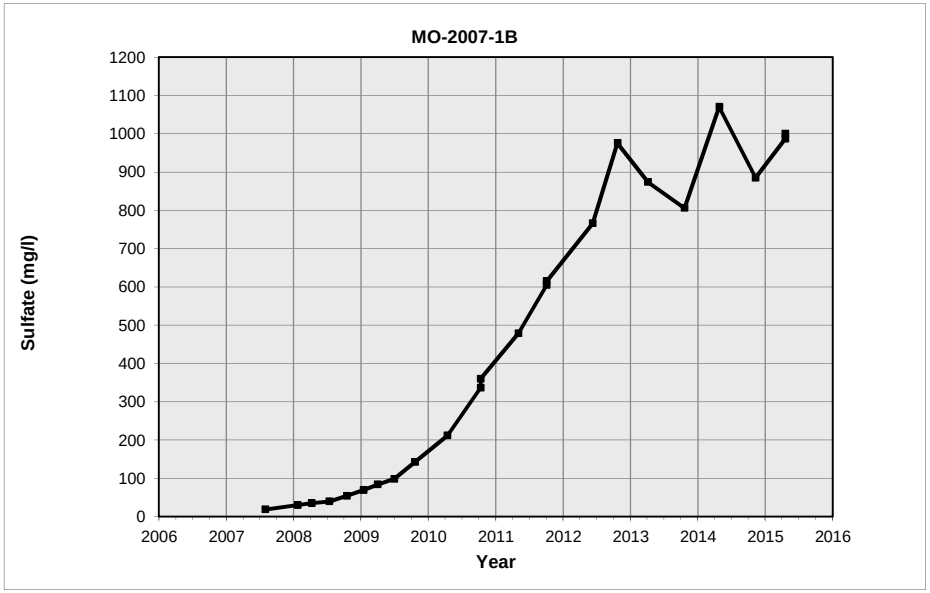


FIGURE C.5
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-1A, MO-2007-1B, AND MO-2007-1C





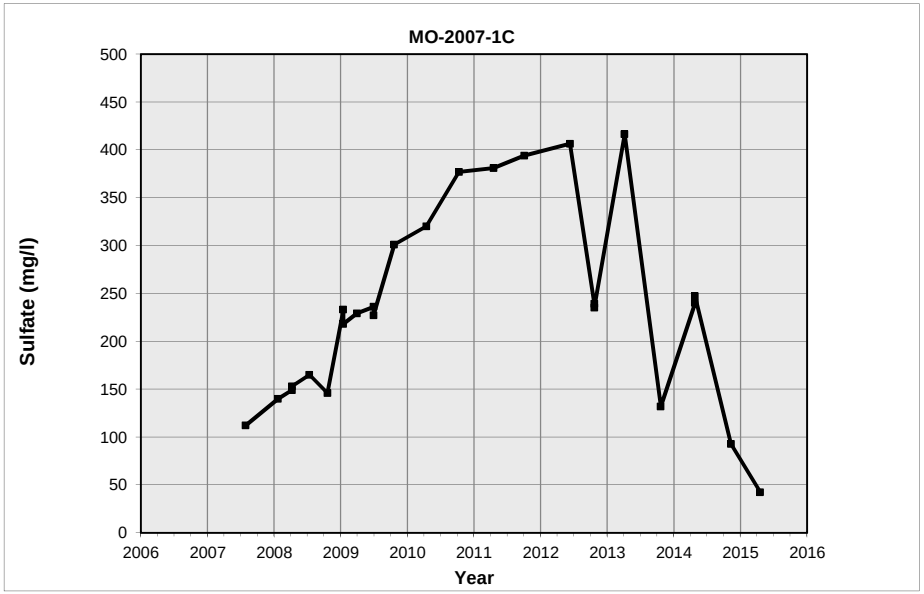
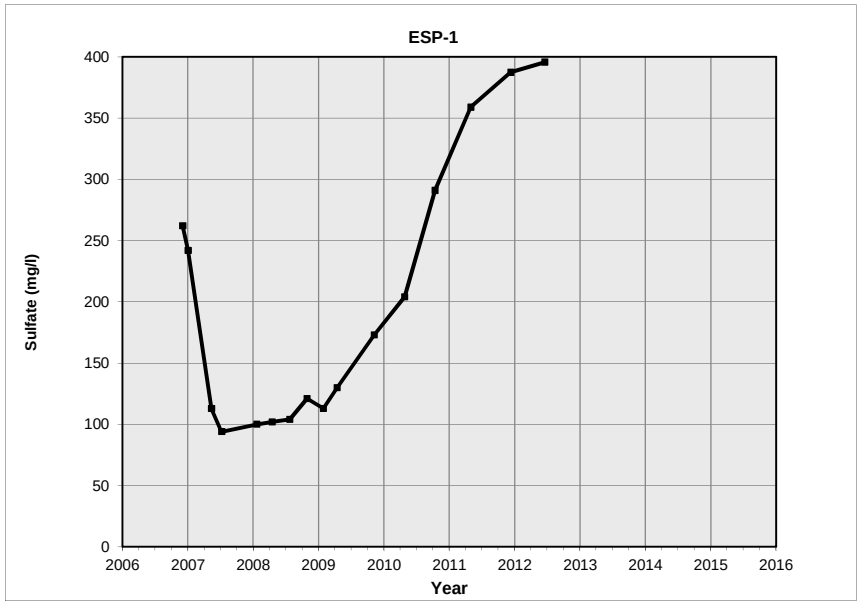
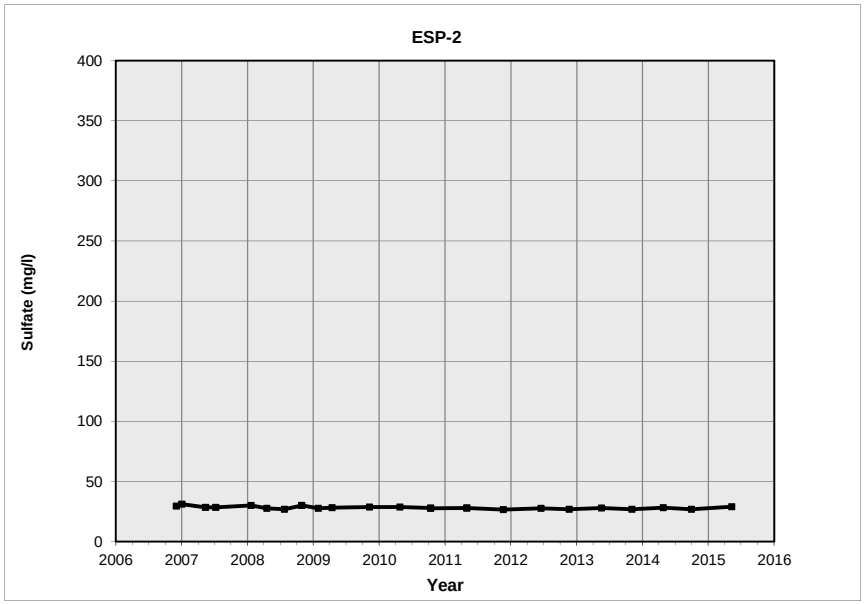
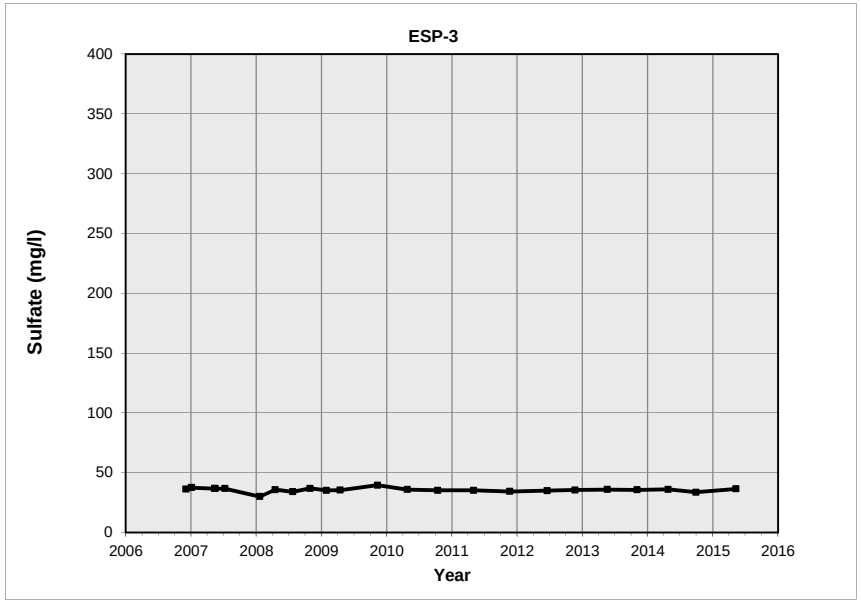
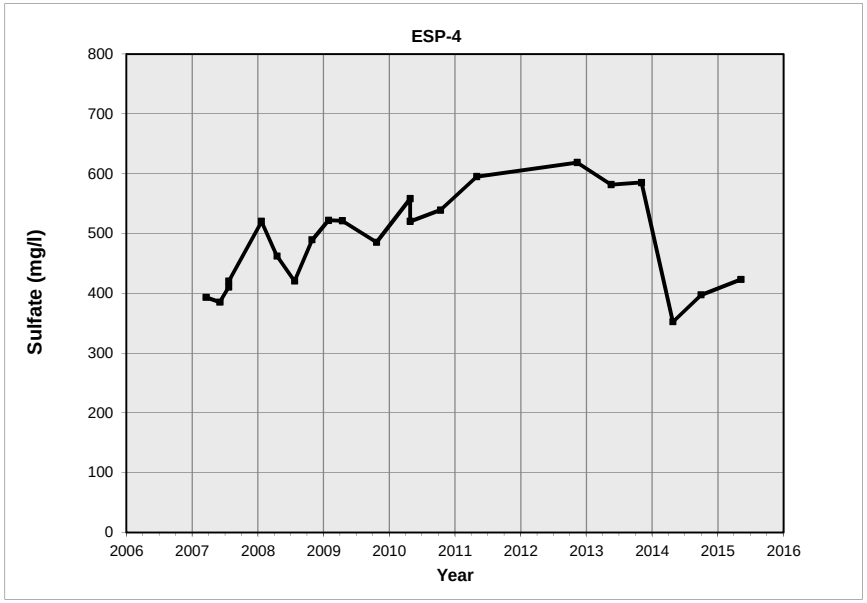


FIGURE C.6
SULFATE CONCENTRATION OVER TIME FOR WELLS
ESP-1, ESP-2, ESP-3, AND ESP-4



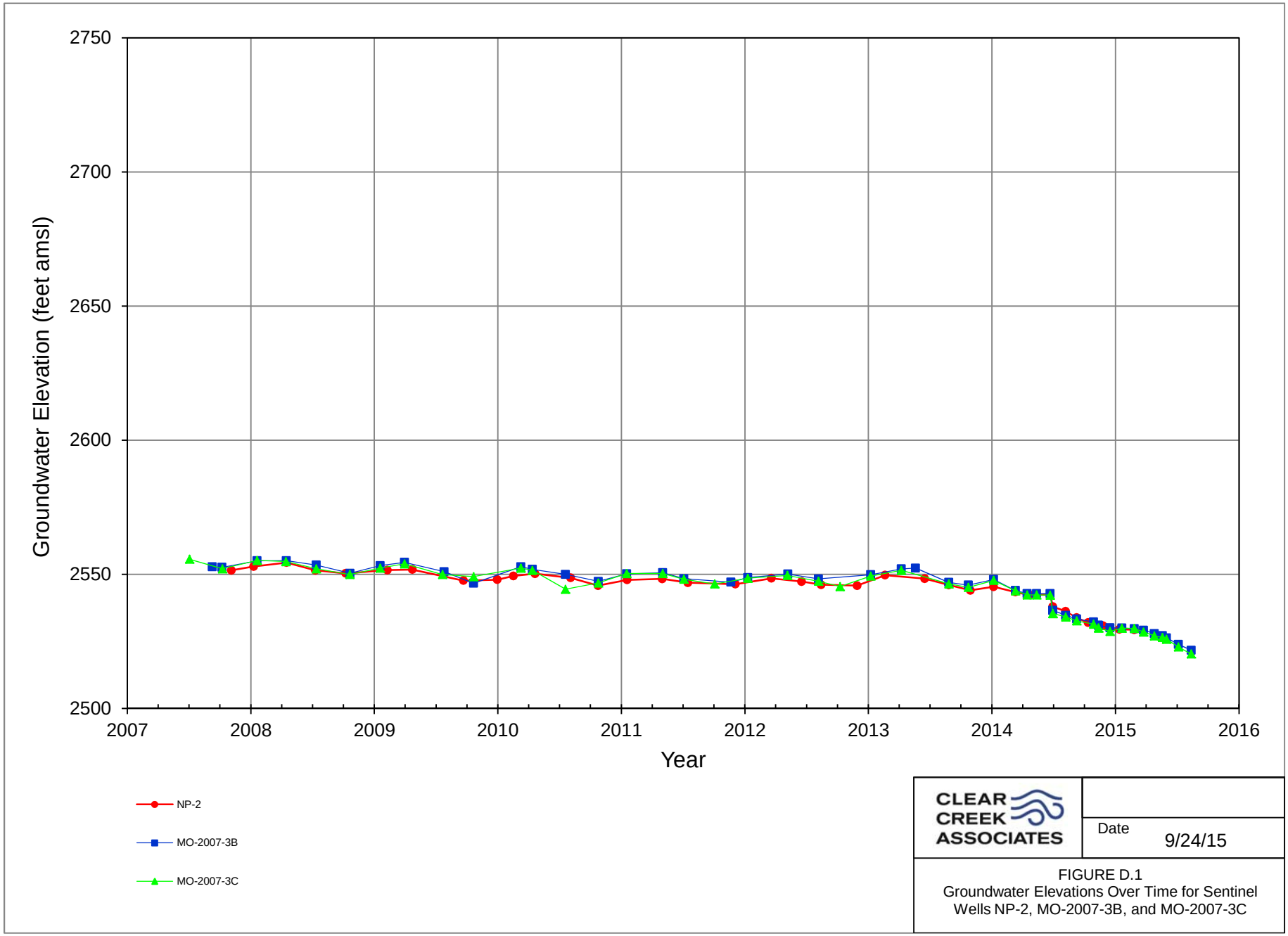






APPENDIX D

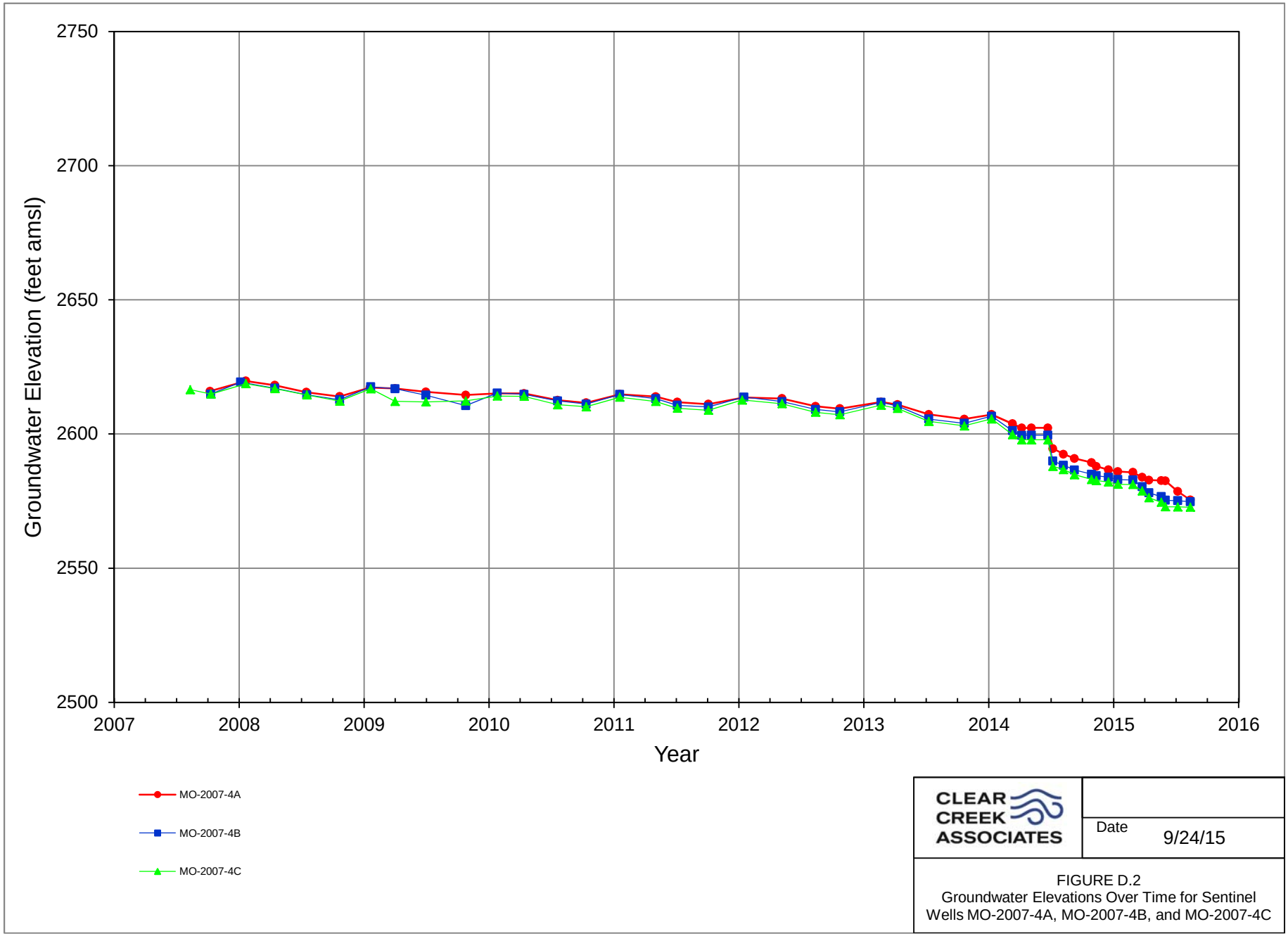
TIME SERIES GRAPHS OF GROUNDWATER ELEVATION



CLEAR CREEK ASSOCIATES

Date 9/24/15

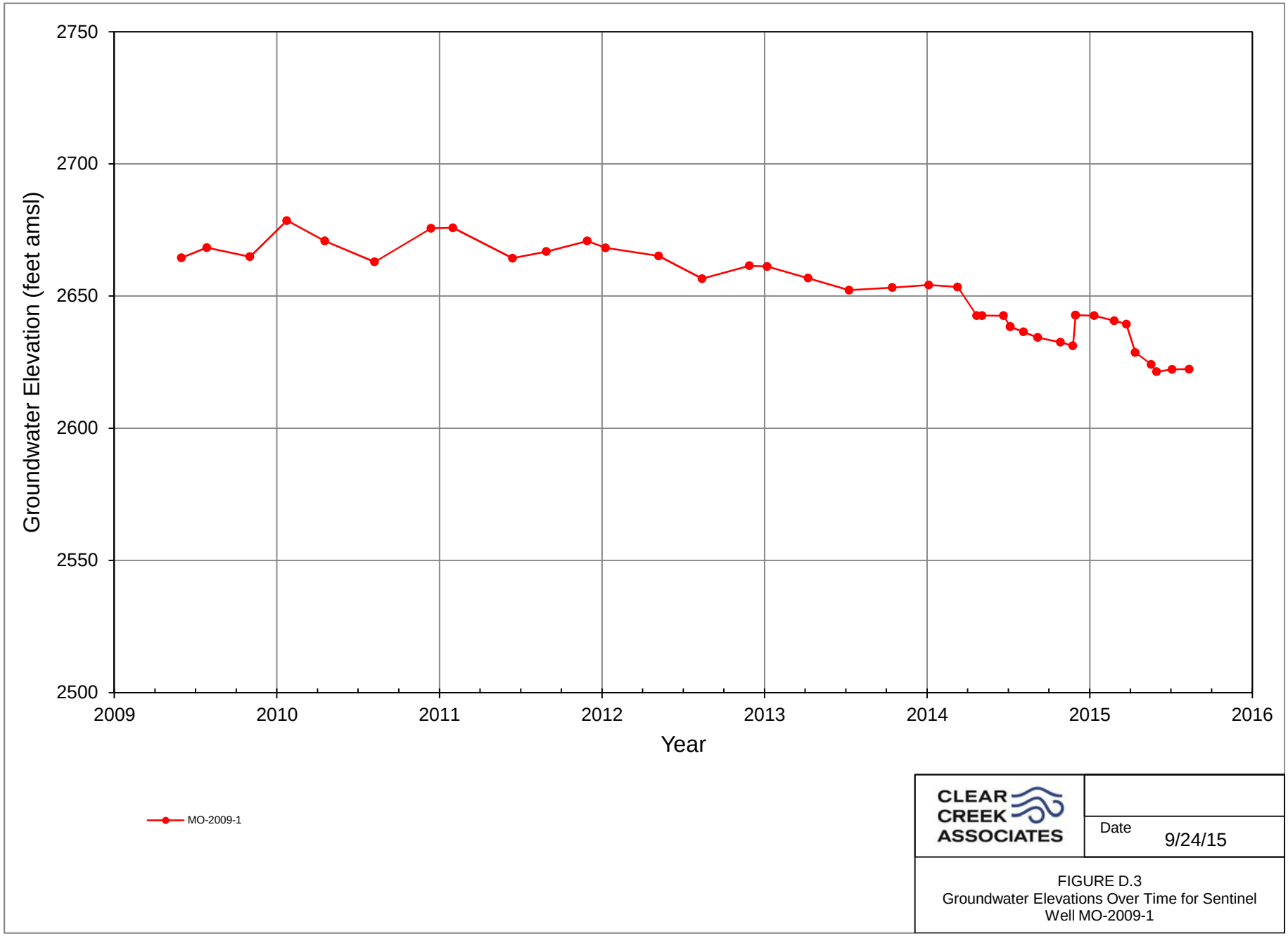
FIGURE D.1
Groundwater Elevations Over Time for Sentinel Wells NP-2, MO-2007-3B, and MO-2007-3C



CLEAR CREEK ASSOCIATES

Date 9/24/15

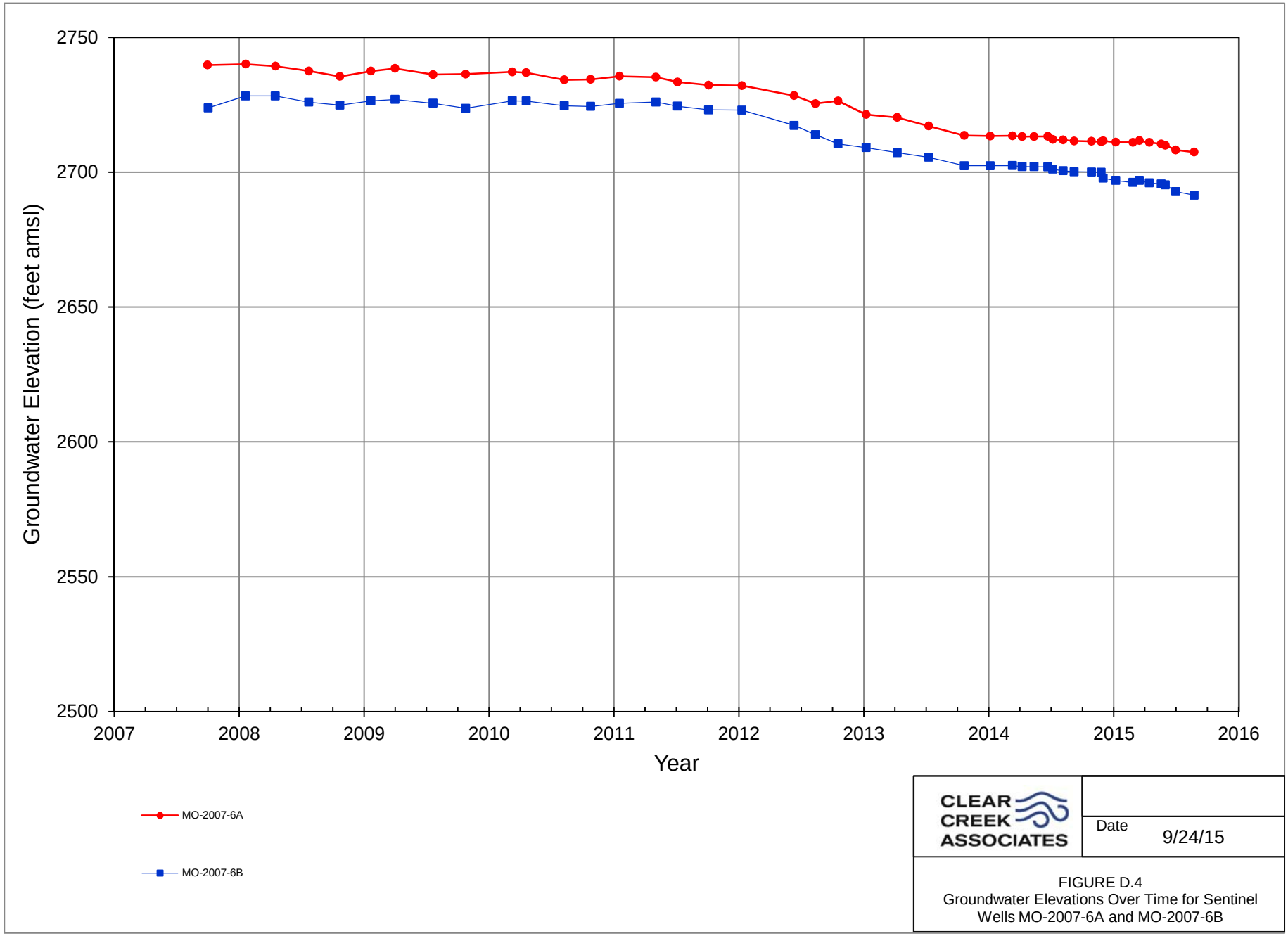
FIGURE D.2
Groundwater Elevations Over Time for Sentinel Wells MO-2007-4A, MO-2007-4B, and MO-2007-4C



CLEAR CREEK ASSOCIATES

Date 9/24/15

FIGURE D.3
Groundwater Elevations Over Time for Sentinel Well MO-2009-1



CLEAR CREEK ASSOCIATES

Date 9/24/15

FIGURE D.4
Groundwater Elevations Over Time for Sentinel Wells MO-2007-6A and MO-2007-6B