



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

May 19, 2015

Via Certified Mail # 7014 3490 0001 5007 1877
Return Receipt Requested

Ms. Mindi Cross
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 Fourth Quarter 2014 and First Quarter 2015**

Dear Ms. Cross:

In accordance with Section 5.1.2 of the Mitigation Plan¹, Freeport-McMoRan Sierrita Inc. (Sierrita) submits the enclosed *Semiannual Groundwater Monitoring Report for Samples Collected During the Fourth Quarter 2014 and First Quarter 2015*, prepared by Clear Creek Associates for Sierrita.

This document provides results of groundwater monitoring conducted during the fourth quarter of 2014 and first quarter of 2015, which Sierrita agreed to submit semiannually in accordance with the letter from ADEQ dated April 17, 2009².

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

Sincerely,

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

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.

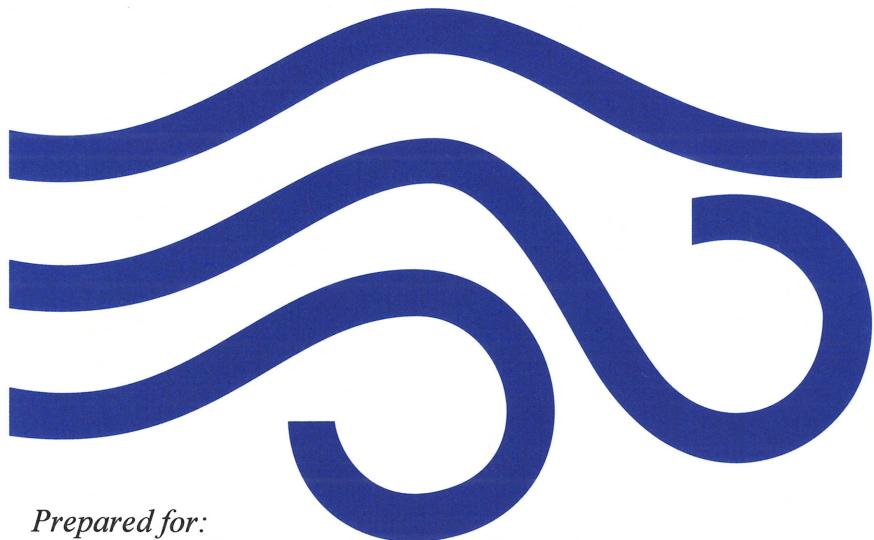
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xc: Henry Darwin, Arizona Department of Environmental Quality
Marcia Colquitt, Arizona Department of Environmental Quality
John Broderick, Sierrita
Lana Fretz, Sierrita
Ned Hall, Freeport-McMoRan Copper & Gold
Stuart Brown, Freeport-McMoRan Copper & Gold
Jim Norris, Clear Creek Associates

**SEMIANNUAL GROUNDWATER MONITORING REPORT
FOR SAMPLES COLLECTED DURING THE FOURTH
QUARTER 2014 AND FIRST QUARTER 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.
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May 19, 2015

**SEMIANNUAL GROUNDWATER MONITORING REPORT
FOR SAMPLES COLLECTED DURING THE FOURTH QUARTER 2014 AND
FIRST QUARTER 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

May 19, 2015

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1. INTRODUCTION

This report provides the results of groundwater monitoring conducted in the fourth quarter 2014 and first quarter 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 fourth quarter 2014 and the first quarter 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. 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 fourth quarter 2014 and first quarter 2015 are presented in Section 2.1.

2. GROUNDWATER MONITORING

2.1 Monitoring Results

Analytical results and groundwater elevation data for the fourth quarter 2014 and first quarter 2015 are tabulated in Tables 2 and 3, respectively. Figures 2 and 3 show the concentrations of dissolved sulfate in the wells sampled in fourth quarter 2014 and first quarter 2015, respectively. The highest sulfate concentration measured at co-located wells was used for concentration contouring¹. Sulfate concentrations are reported as received from the laboratory with no modifications to the number of significant figures. Groundwater elevations in the fourth quarter 2014 and first quarter 2015 are presented on Figures 4 and 5, respectively. These figures show the most recent measurement for wells with multiple water level measurements during the quarter.

Groundwater elevations for the fourth quarter 2014 and first quarter 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 the extraction wells operated for the Mitigation Plan. 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.

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 fourth quarter 2014 and first quarter 2015, and is included as Appendix A. Analytical laboratory reports for samples collected in the fourth quarter 2014 and

¹ The 250 milligram per liter (mg/L) sulfate contour north of the MO-2007-1 wells is drawn based on the calculated 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 distance from the MO-2007-1 wells is 1,819 feet for fourth quarter 2014 and 1,852 feet for first quarter 2015. The distance is based on groundwater velocities calculated using the maximum hydraulic gradient between the MO-2007-1A, 1B, and 1C and TMM-1 for periods ending in the second and fourth quarter. 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 for each period and the highest hydraulic conductivity measured at the MO-2007-1 wells. The hydraulic gradient between MO-2007-1 and TMM-1 decreased in 2014 due to the start of the mitigation plan pumping. The distance calculation method in this report is different than the last Semi-Annual Monitoring Report to account for the changing gradient.

first quarter 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 fourth quarter 2014 and first quarter 2015. Groundwater samples were collected from 42 plume area wells and depth to water measurements were collected from 79 wells during the fourth quarter 2014. In the first quarter 2015, groundwater samples were collected from 34 plume area wells and depth to water measurements were collected from 57 plume area wells.

Well sampling was conducted according to the Post-Implementation Groundwater Monitoring Plan except for ESP-1, GV-01-GVDWID, IW-8, and IW-26. The water level in ESP-1 during the fourth quarter 2014 was too low for the pump to produce water for sampling. GV-01-GVDWID was down for maintenance on October 14, 2014 when Sierrita sampling staff visited the well for sampling. IW-8 and IW-26 were not operational in the fourth quarter 2014.

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 fourth quarter of 2014 and first quarter of 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. As stated in Section 2.1, 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 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, 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 in this report for the fourth quarter of 2014 are analyzed and interpreted in the Mitigation Performance Review for 2014 (Clear Creek Associates, 2015).

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	Monthly Water Level Monitoring*
CC of GV	501760	Monitor	Sierrita	✓			
CW-3	627483	DWS	CWC	✓	✓		✓
CW-6	627485	DWS	CWC	✓	✓	✓	
CW-7	502546	Monitor	CWC	WLO			
CW-8	543600	Monitor	CWC	WLO			
CW-9	588121	DWS	CWC	✓	✓	✓	
CW-10	207982	DWS	CWC	✓	✓	✓	
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			
FFS-1	221662	Extraction	Sierrita	✓			
FFS-2	221663	Extraction	Sierrita	✓			
FFS-3	221664	Extraction	Sierrita	✓			
FFS-4	221665	Extraction	Sierrita	✓			
FFS-5	221666	Extraction	Sierrita	✓			
FFS-6	221667	Extraction	Sierrita	✓			
GV-01-GVDWID	603428	DWS	GVDWID	✓	✓	✓	
GV-02-GVDWID	603429	DWS	GVDWID	✓	✓	✓	
GV-SI-GVDWID	208825	DWS	GVDWID	✓			
HAVEN GOLF	515867	Monitor	Haven Golf	✓			
I-10	608525	Monitor	Sierrita	✓			
IW-1	623129	Extraction	Sierrita	✓			
IW-2A	216464	Extraction	Sierrita	✓			
IW-3A	201732	Extraction	Sierrita	✓			
IW-4	623132	Extraction	Sierrita	✓			
IW-5A	219131	Extraction	Sierrita	✓			
IW-6A	545565	Extraction	Sierrita	✓			
IW-8	508236	Extraction	Sierrita	✓			
IW-9	508238	Extraction	Sierrita	✓			
IW-10	508237	Extraction	Sierrita	✓			
IW-11	508235	Extraction	Sierrita	✓			
IW-12	545555	Extraction	Sierrita	✓			

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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	Monthly Water Level Monitoring*
IW-13	545556	Extraction	Sierrita	✓			
IW-14	545557	Extraction	Sierrita	✓			
IW-15	545558	Extraction	Sierrita	✓			
IW-16	545559	Monitor	Sierrita	WLO			
IW-17	545560	Monitor	Sierrita	WLO			
IW-18	545561	Monitor	Sierrita	WLO			
IW-19	545562	Extraction	Sierrita	✓			
IW-20	545563	Extraction	Sierrita	✓			
IW-21	545564	Extraction	Sierrita	✓			
IW-22	200554	Extraction	Sierrita	✓			
IW-23	200555	Extraction	Sierrita	✓			
IW-24	200556	Extraction	Sierrita	✓			
IW-25	219596	Extraction	Sierrita	✓			
IW-26	219143	Extraction	Sierrita	✓			
IW-27	219136	Extraction	Sierrita	✓			
IW-28	219137	Extraction	Sierrita	✓			
M-8	87390	Monitor	Sierrita	✓	✓		✓
M-9	501652	Monitor	Sierrita	✓			✓
M-10	501653	Monitor	Sierrita	✓	✓		
M-20	906595	Monitor	Sierrita	✓			
MC-1	221660	Extraction	Sierrita	✓			
MC-2	221761	Extraction	Sierrita	✓			
MC-3	221661	Extraction	Sierrita	✓			
MC-4	220842	Extraction	Sierrita	✓			
MH-1	803629	Monitor	Sierrita	WLO			
MH-3	803630	Monitor	Sierrita	WLO			✓
MH-5	803632	Monitor	Sierrita	WLO			
MH-6	803633	Monitor	Sierrita	WLO			
MH-7	803634	Monitor	Sierrita	WLO			
MH-9	803635	Monitor	Sierrita	WLO			✓
MH-10	803636	Monitor	Sierrita	✓			
MH-11	803637	Monitor	Sierrita	✓			✓
MH-12	803638	Monitor	Sierrita				✓
MH-13A	904071	Monitor	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	Monthly Water Level Monitoring*
MH-13B	904072	Monitor	Sierrita	✓			✓
MH-13C	904073	Monitor	Sierrita	✓			✓
MH-14	528098	Monitor	Sierrita	WLO			✓
MH-15E	528094	Monitor	Sierrita	WLO			✓
MH-15W	528093	Monitor	Sierrita	WLO			✓
MH-16E	528100	Monitor	Sierrita	WLO			✓
MH-16W	528099	Monitor	Sierrita	WLO			✓
MH-24	563799	Monitor	Sierrita	WLO			
MH-25A	201528	Monitor	Sierrita	✓			✓
MH-25B	208429	Monitor	Sierrita	✓			✓
MH-25C	208426	Monitor	Sierrita	✓			✓
MH-26A	201527	Monitor	Sierrita	✓			✓
MH-26B	208427	Monitor	Sierrita	✓			✓
MH-26C	208428	Monitor	Sierrita	✓			✓
MH-28	903648	Monitor	Sierrita	✓	✓		✓
MH-29	903649	Monitor	Sierrita	✓	✓		✓
MH-30	903884	Monitor	Sierrita	✓			✓
MO-2007-1A	907342	Monitor	Sierrita	✓	✓		✓
MO-2007-1B	907210	Monitor	Sierrita	✓	✓		✓
MO-2007-1C	907209	Monitor	Sierrita	✓	✓		✓
MO-2007-2	906765	Monitor	Sierrita	✓			✓
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	✓	✓	✓	✓
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	624028	Sentinel	CWC	✓	✓	✓	✓
PS-1	220861	Extraction	Sierrita	✓			
PS-2	220862	Extraction	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	Monthly Water Level Monitoring*
PS-3	220863	Extraction	Sierrita	✓			
PS-4	220864	Extraction	Sierrita	✓			
PZ-7	561870	Monitor	Sierrita	✓			
PZ-8	561866	Monitor	Sierrita	✓			
TMM-1	616156	Monitor	Pima County	✓	✓		
1350	ND	Monitor	Sierrita	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

* Monthly water level monitoring for first year of operation, quarterly thereafter

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 ($\mu\text{S}/\text{cm}$)	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
		6/6/07	7.74	25.3	449	57.9
CW-3	627483	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

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 ($\mu\text{S}/\text{cm}$)	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
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 ($\mu\text{S}/\text{cm}$)	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

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 ($\mu\text{S}/\text{cm}$)	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
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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
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
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
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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	97.4
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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
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
IW-27	219136	4/14/14	7.16	22.4	3210	1760
IW-28	219137	4/15/13	7.03	24.2	2930	1720
		4/14/14	7.08	25.0	3230	1740

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 ($\mu\text{S}/\text{cm}$)	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
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	74.0

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 ($\mu\text{S}/\text{cm}$)	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
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
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
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

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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
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
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
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

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 ($\mu\text{S}/\text{cm}$)	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
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
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
MH-16W	528099	11/4/14	7.76	23.3	3220	1880
		11/4/14 DUP	7.76	23.3	3220	1800

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 ($\mu\text{S}/\text{cm}$)	Sulfate, Dissolved (mg/L)
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	16.5
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
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 ($\mu\text{S}/\text{cm}$)	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
MH-26C	208428	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
		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

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 ($\mu\text{S}/\text{cm}$)	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
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	23.7	3310	1940

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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

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 ($\mu\text{S}/\text{cm}$)	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

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 ($\mu\text{S}/\text{cm}$)	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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
		10/22/2013 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

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 ($\mu\text{S}/\text{cm}$)	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

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 ($\mu\text{S}/\text{cm}$)	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
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

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 ($\mu\text{S}/\text{cm}$)	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
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
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
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

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 ($\mu\text{S}/\text{cm}$)	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

$\mu\text{S}/\text{cm}$ = microsiemens per centimeter

mg/L = milligrams per Liter

NA = not analyzed

NM = not measured

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)	
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	
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

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	279.38	2587.62
							Static ¹	279.20	2587.80
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
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

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
							Static ¹	1/13/15	328.35
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
							Static ¹	1/13/15	216.94
									2651.56

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

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-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
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
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

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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-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	428.40	2643.00
							Dynamic	462.50	2608.90
							Dynamic	464.00	2607.40
							Dynamic	464.60	2606.80
							Dynamic	465.70	2605.70
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	453.20	2628.91
							Dynamic	487.37	2594.74
							Dynamic	489.05	2593.06
							Dynamic	489.95	2592.16
							Dynamic	491.92	2590.19
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	497.80	2586.10
							Dynamic	519.50	2564.40
							Dynamic	521.35	2562.55
							Dynamic	523.10	2560.80
							Dynamic	522.10	2561.80
							Dynamic	524.05	2559.85
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	529.75	2568.17
							Dynamic	595.40	2502.52
							Dynamic	602.10	2495.82
							Dynamic	608.90	2489.02
							Dynamic	622.65	2475.27

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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-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	
							Dynamic	11/4/14	575.55	
							Dynamic	12/2/14	577.65	
							Dynamic	1/4/15	579.20	
							Dynamic	3/3/15	581.00	
							Dynamic	10/1/14	526.73	
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	
							Dynamic	11/4/14	577.80	
							Dynamic	12/2/14	579.58	
							Dynamic	1/4/15	581.40	
							Dynamic	2/4/15	582.15	
							Dynamic	3/3/15	583.40	
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

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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)	
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
GV-SI-GVDWID	208825	HGC	3519509.930	497227.175	3042.65	NA	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	
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	NA	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	

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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-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
							Dynamic	11/4/14	443.90
							Dynamic	12/2/14	446.60
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
							Dynamic	11/4/14	420.10
							Dynamic	12/2/14	422.20
									2690.08

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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-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
							Dynamic	11/4/14	442.75
							Dynamic	12/2/14	446.10
							2/24/07	417.70	2719.36
IW-4	623132	Sierrita	3522465.879	497371.700	3137.06	NA	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
IW-5	623133	Sierrita	3522814.850	497369.528	3137.65	NA	Dynamic	10/1/14	Insufficient Flow
							Dynamic	11/4/14	426.05
							Dynamic	12/2/14	424.10
							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	NO SURVEY DATA				NA	5/22/12	468.65	NA	
							4/15/13	514.20	NA	
							1/29/14	531.51	NA	
							2/24/14	390.02	NA	
							3/24/14	Obstructed	NA	
							4/25/14	389.58	NA	
							5/30/14	511.90	NA	
							6/9/14	621.00	NA	
							7/6/14	387.80	NA	
							7/31/14	387.30	NA	
							8/27/14	386.30	NA	
							Static	10/1/14	386.75	NA
							Static	11/4/14	389.10	NA
							Static	12/2/14	389.80	NA
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
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

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-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
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

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-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
							Dynamic	11/4/14	Obstructed
							Static	12/2/14	Obstructed
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
							Dynamic	11/4/14	475.70
							Dynamic	12/2/14	475.95
									2662.23

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-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
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

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-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	491.40	2660.62
							Dynamic	491.40	2660.62
							Dynamic	491.40	2660.62
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
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

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-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	
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

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-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
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

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-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
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

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-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
							11/4/14	475.15	2638.14
							12/2/14	466.90	2646.39
IW-25	219596	Sierrita	3521725.393	497631.672	3091.66	NA	4/15/13	422.52	2669.14
IW-26	219143	Sierrita	3522307.296	497652.833	3100.03	NA	6/9/14	436.90	2654.76
IW-27	219136	Sierrita	3522658.299	497602.9752	3120.33	NA	4/15/13	492.21	2607.82
IW-28	219137	Sierrita	3523178.619	497650.404	3110.71	NA	6/9/14	376.80	2723.23
M-8	87390	Sierrita	3529692.237	499658.916	2999.53	NA	6/5/14	393.50	2726.83
							4/15/13	447.89	2662.82
							6/9/14	434.70	2676.01
							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
							Static	12/16/14	484.74
							Static	1/29/15	484.88
							Static	2/27/15	484.93
							Static	3/19/15	484.02
							2515.51		

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-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
							10/28/14	464.55	2509.26
							Static	466.10	2507.71
							Static	467.81	2506.00
							Static	461.04	2512.77
							Static	465.19	2508.62
							Static	460.12	2513.69
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
M-20	501653	Sierrita	3530143.114	499659.027	3005.68	NA	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
							11/4/14	493.67	2512.01
M-20	906595	TBPI	3528491.771	499082.070	3054.00	NA	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

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-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	450.25	2588.37
							Dynamic	466.80	2571.82
							Dynamic	468.10	2570.52
							Dynamic	469.30	2569.32
							Dynamic	469.65	2568.97
							Dynamic	470.90	2567.72
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	442.65	2565.63
							Dynamic	453.60	2554.68
							Dynamic	454.75	2553.53
							Dynamic	456.40	2551.88
							Dynamic	457.95	2550.33
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	519.75	2542.58
							Dynamic	527.25	2535.08
							Dynamic	528.65	2533.68
							Dynamic	530.50	2531.83
							Dynamic	531.21	2531.12
							Dynamic	532.10	2530.23
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	558.80	2537.24
							Dynamic	572.20	2523.84
							Dynamic	573.70	2522.34
							Dynamic	575.35	2520.69
							Dynamic	576.10	2519.94
							Dynamic	576.95	2519.09

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-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
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
							10/28/14	441.25	2714.62
							Static	441.30	2714.57
							Static	441.33	2714.54
							Static	441.35	2714.52
							Static	441.33	2714.54
							3/26/15	445.39	2710.48
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

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-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
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
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
							10/28/14	387.73	2774.84
							Static	388.10	2774.47
							Static	388.40	2774.17
							Static	388.56	2774.01
							Static	388.62	2773.95
							Static	388.39	2774.18

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-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
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
							10/29/14	416.87	2624.89
							Static	419.24	2622.52
							Static	421.06	2620.70
							Static	422.70	2619.06
							Static	422.96	2618.80
							Static	421.87	2619.89
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

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-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
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

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
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	
							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

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	
							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
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	
							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

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
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

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-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
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
							10/29/14	492.67	2563.90
							Static	495.20	2561.37
							Static	497.76	2558.81
							Static	499.10	2557.47
							Static	500.16	2556.41
							Static	498.50	2558.07

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-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
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

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-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		
							10/28/14	DRY	NA		
							Static	11/26/14	DRY		
							Static	12/16/14	DRY		
							Static	1/29/15	DRY		
							Static	2/27/15	DRY		
							Static	3/18/15	DRY		
						NA	11/13/06	493.00	2577.50		
MH-26B	208427	Sierrita	3527814.016	498839.900	3070.50		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	

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	
							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
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

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
							Static	11/4/14	400.90
							Static	12/21/14	401.30
							Static	1/7/15	402.56
							Static	2/27/15	402.89
							Static	3/26/15	402.18
							11/10/06	422.78	2809.67
MH-30	903884	Sierrita	3525926.812	496682.307	3232.45	NA	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
							Static	11/26/14	430.82
							Static	12/20/14	436.19
							Static	1/29/15	440.11
							Static	2/27/15	442.88
							Static	3/26/15	431.34
									2801.11

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	448.18	2519.47
							Static	448.42	2519.23
							Static	448.63	2519.02
							Static	448.74	2518.91
							Static	448.80	2518.85
							Static	448.48	2519.17
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	448.92	2517.90
							Static	449.05	2517.77
							Static	449.05	2517.77
							Static	449.19	2517.63
							Static	449.19	2517.64
							Static	449.19	2517.63
							Static	448.97	2517.85

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
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

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	379.96	2532.19
							Static	381.17	2530.98
							Static	381.17	2530.98
							Static	382.07	2530.08
							Static	382.22	2529.93
							Static	382.40	2529.75
							Static	382.99	2529.16

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-2007-3C	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	380.51	2531.39
							Static	381.92	2529.98
							Static	381.92	2529.98
							Static	383.22	2528.68
							Static	381.99	2529.91
							Static	382.14	2529.76
							Static	383.42	2528.48

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-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
							Static	11/12/14	335.68
							Static	12/17/14	336.93
							Static	1/14/15	337.62
							Static	2/27/15	337.92
							Static	3/26/15	339.75
									2583.88

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

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

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
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

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

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

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

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
							10/13/14	374.58	2531.98
							Static	375.76	2530.80
							Static	376.89	2529.67
							Static	377.12	2529.44
							Static	377.25	2529.31
							Static	377.65	2528.91
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	517.95	2522.72
							Dynamic	531.19	2509.48
							Dynamic	532.05	2508.62
							Dynamic	532.50	2508.17
							Dynamic	533.20	2507.47
							Dynamic	533.60	2507.07

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
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
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
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	

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
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

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

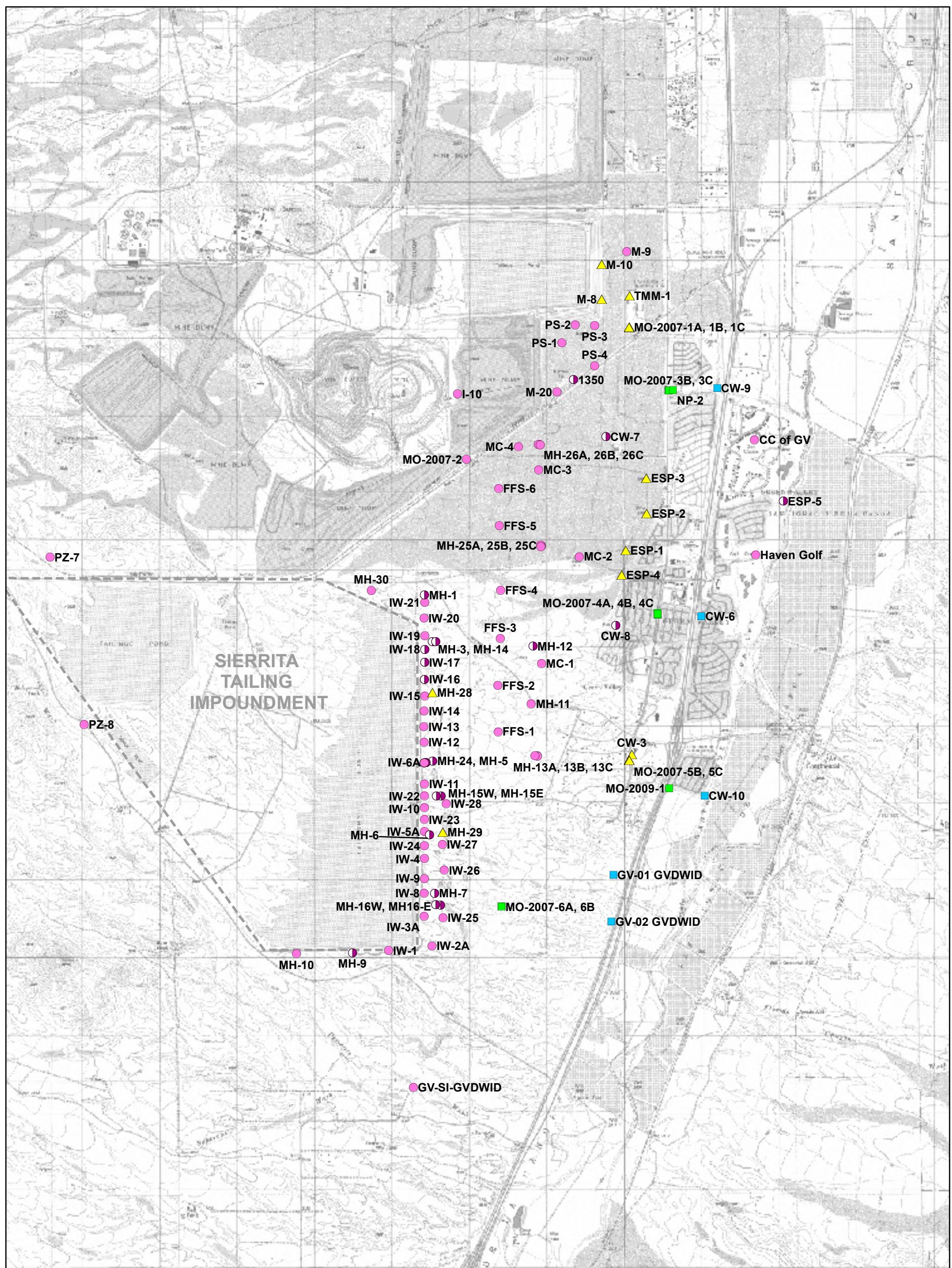
Sierrita = Freeport-McMoRan Sierrita Inc.

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



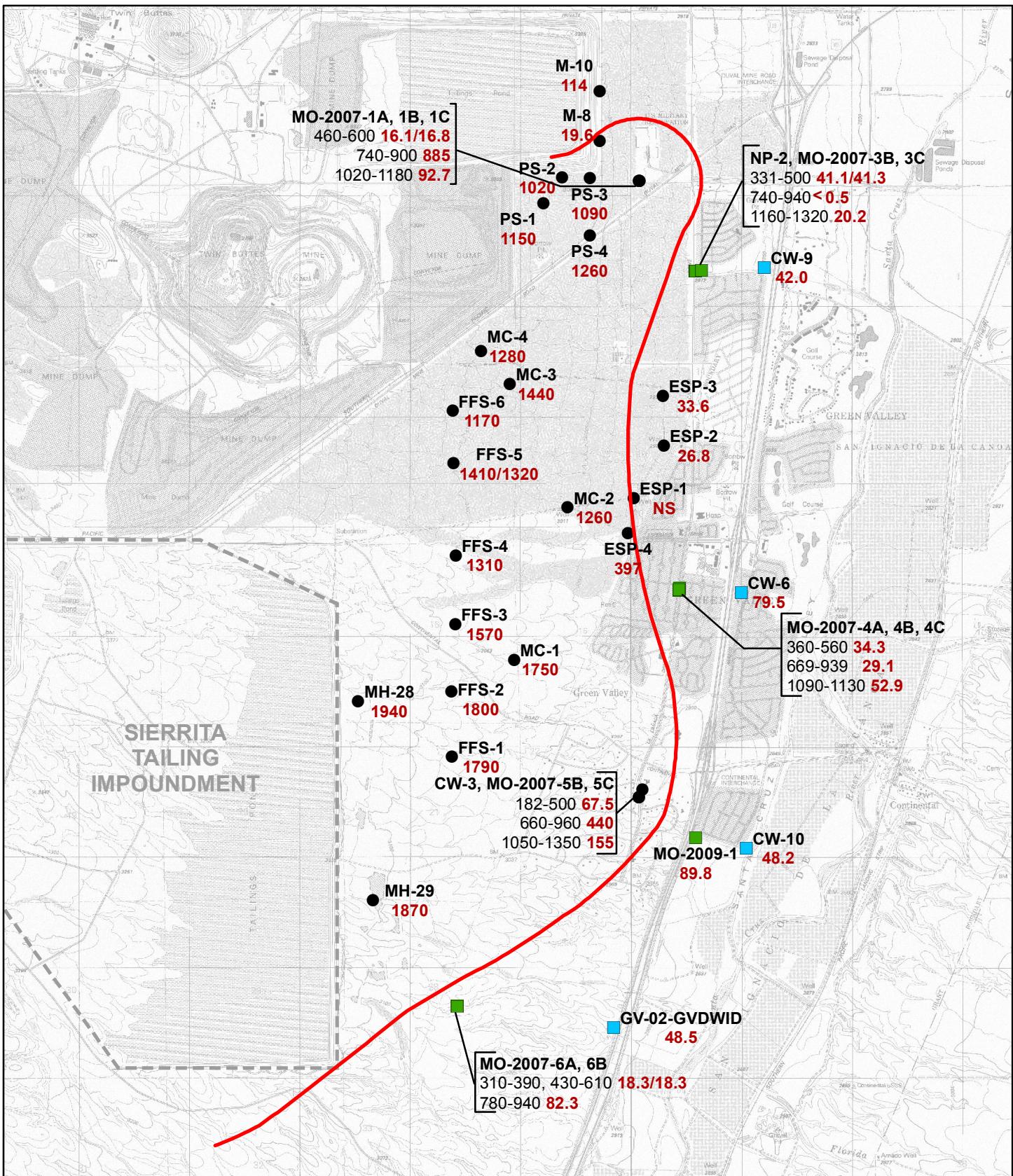
Legend

- (●) 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

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

Date 3/20/14	File ID 055039-006C
	CLEAR CREEK ASSOCIATES

FIGURE 1
Sampling Locations for
Post-Implementation
Groundwater Monitoring



Legend
— 250 mg/L Sulfate Concentration Contour

● **CW-9** Well ID
42.0 Sulfate Concentration (mg/L)
 Duplicate Results Separated by "/"

NS Not Sampled

Co-Located Wells

— Screened Interval (ft bbls): **Sulfate Concentration (mg/L)**

Well Symbols

- Well
- Drinking Supply Well
- Sentinel Well

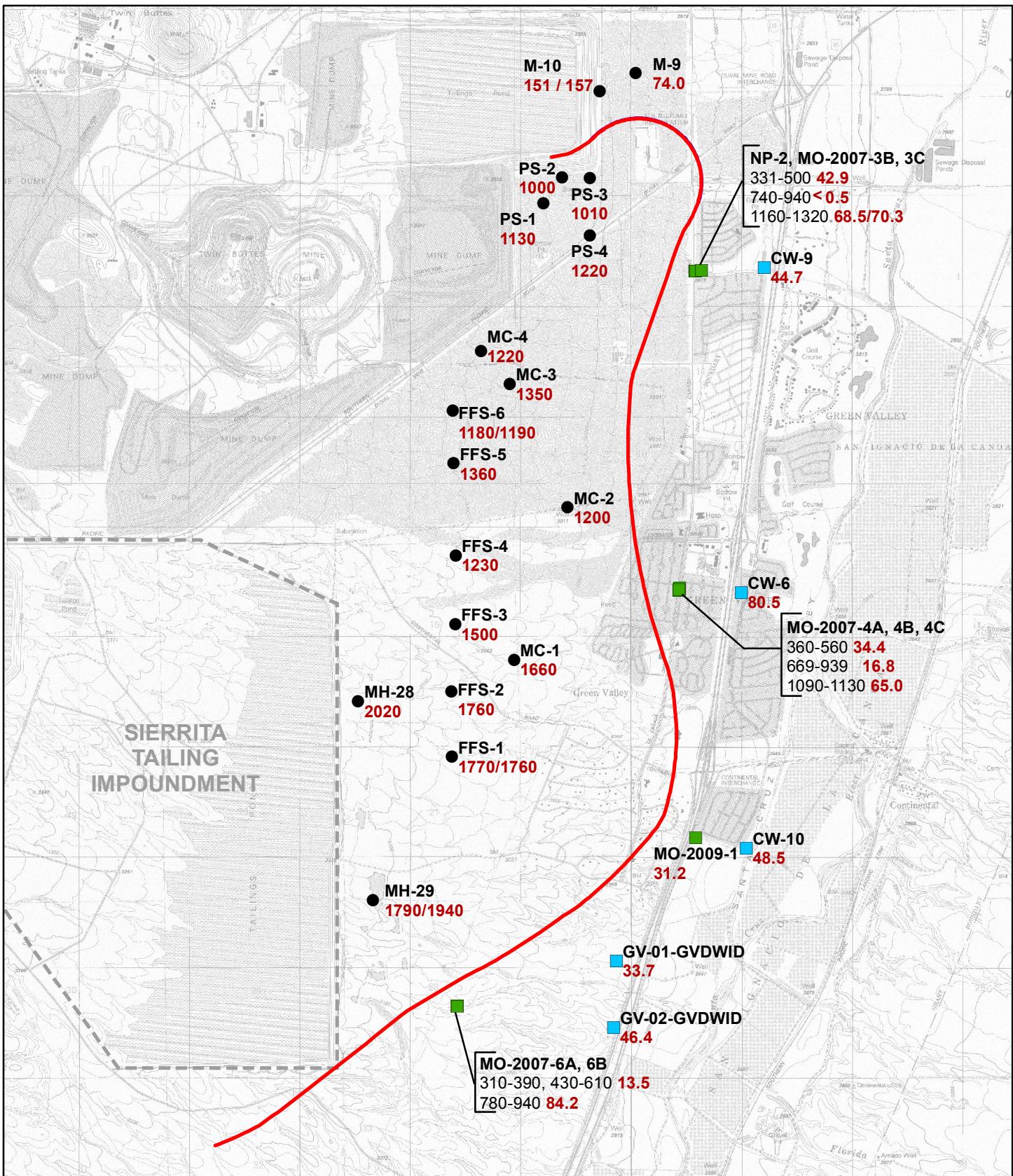
0 2,000 4,000
Feet

CLEAR CREEK ASSOCIATES

File ID 055039-118

Date 4/29/15

FIGURE 2
 Sulfate Concentrations
 in Groundwater
 Fourth Quarter 2014



Legend
— 250 mg/L Sulfate Concentration Contour

● CW-9 Well ID
44.7 Sulfate Concentration (mg/L)
Duplicate Results Separated by "/"

Well Symbols

- Well
- Drinking Supply Well
- Sentinel Well

0 2,000 4,000
Feet

CLEAR CREEK ASSOCIATES

File ID 055039-122

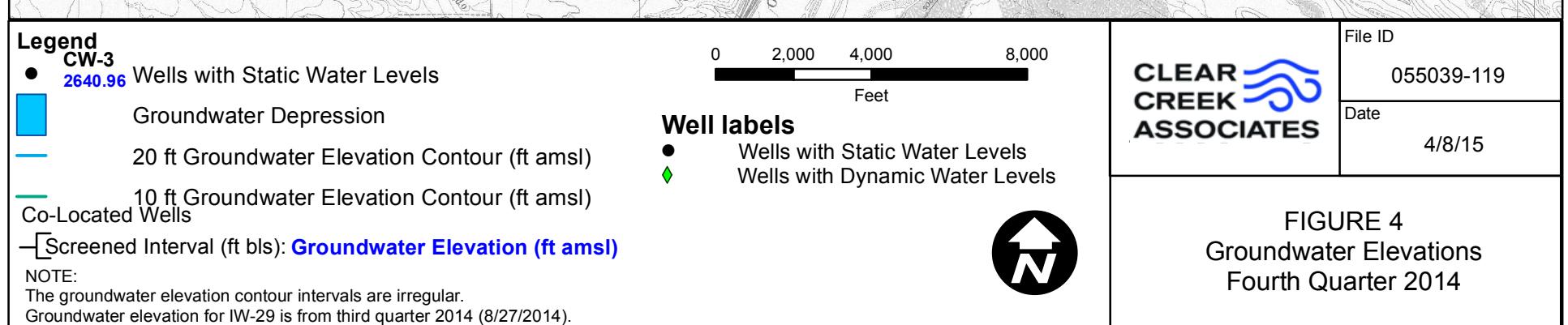
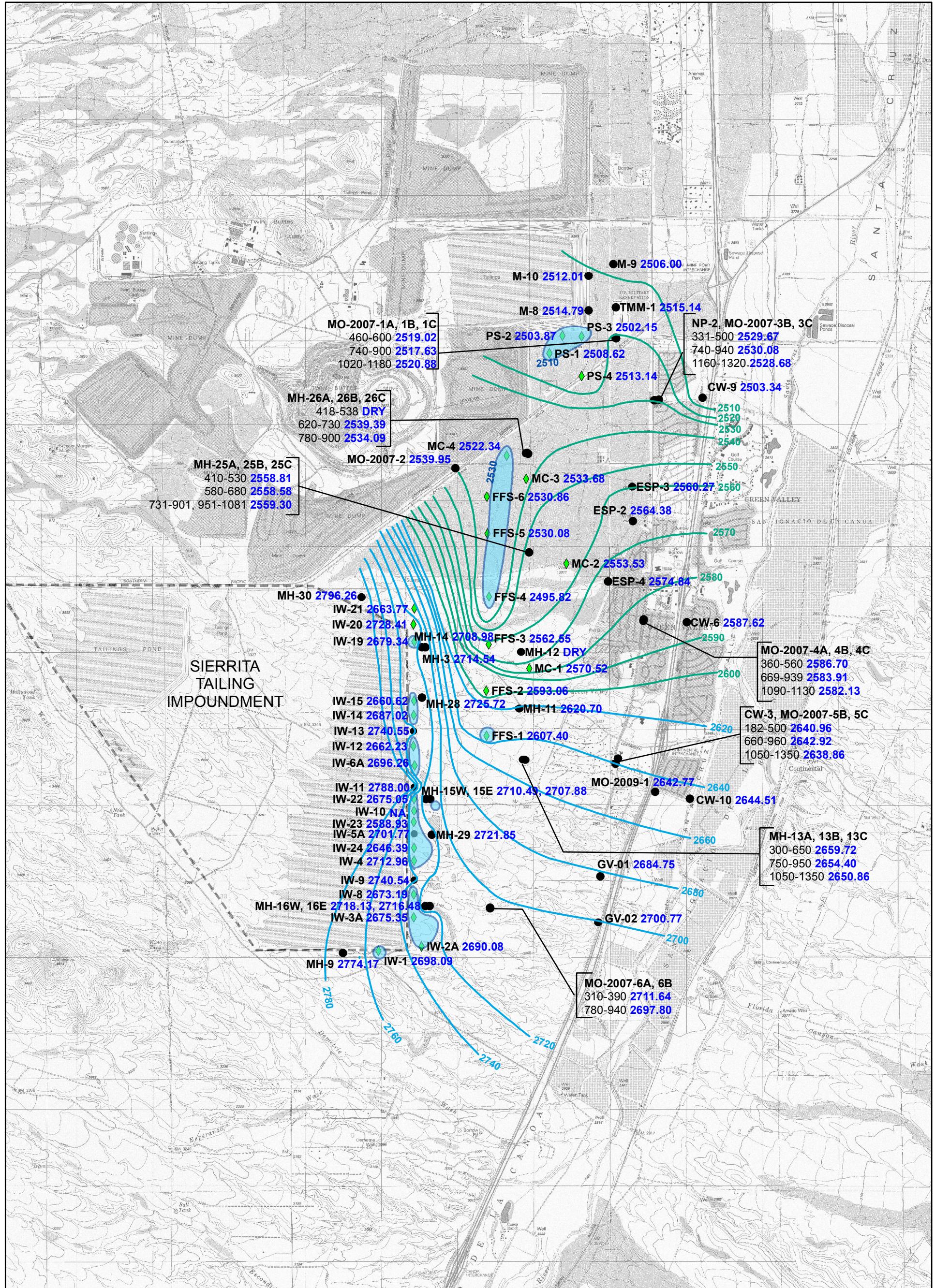
Date 3/31/15

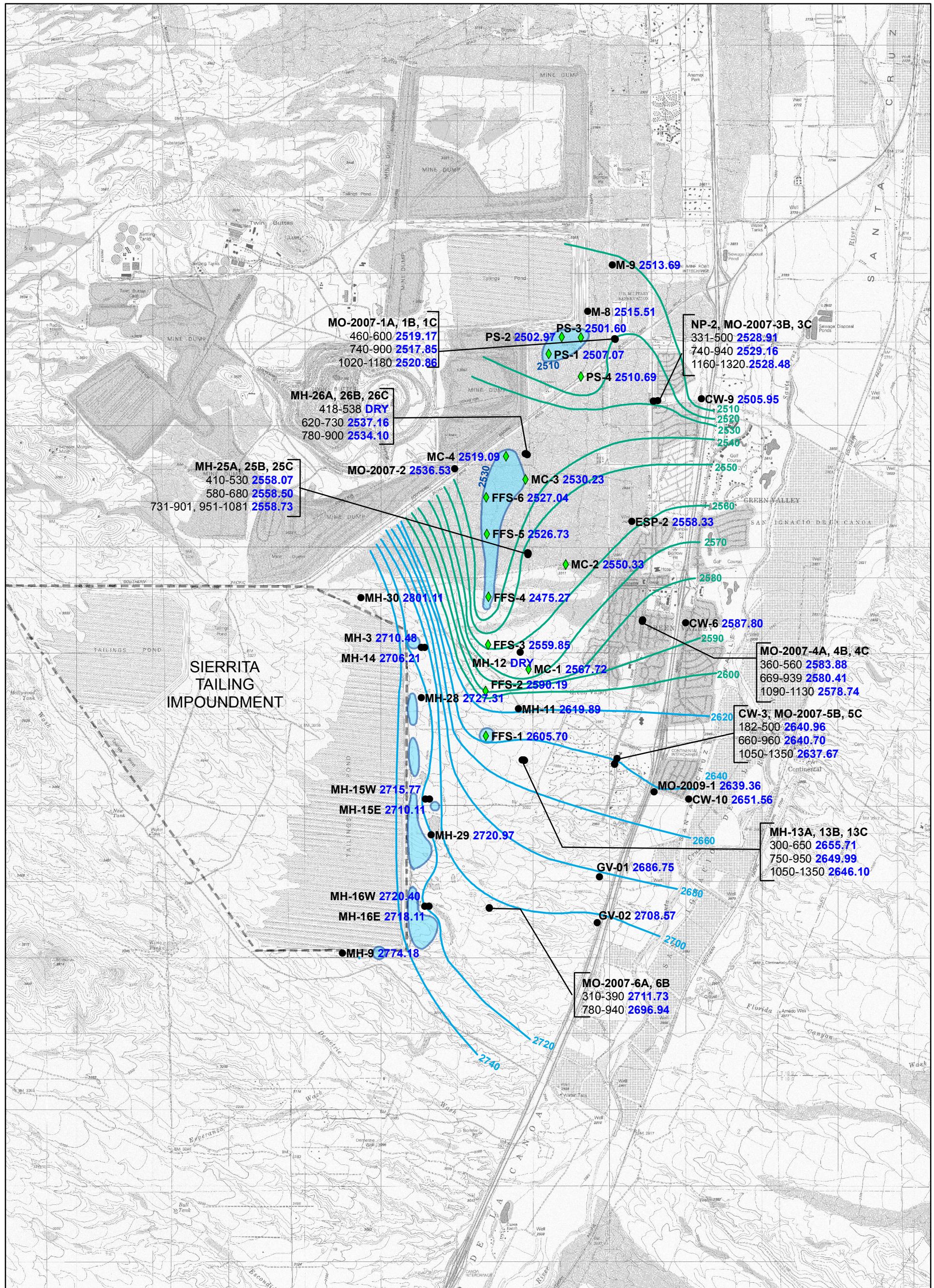


FIGURE 3
Sulfate Concentrations
in Groundwater
First Quarter 2015

Co-Located Wells

— Screened Interval (ft bbls): Sulfate Concentration (mg/L)





Legend:

- CW-6 2587.80 Wells with Static Water Levels
- Groundwater Depression
- 20 ft Groundwater Elevation Contour (ft amsl)
- 10 ft Groundwater Elevation Contour (ft amsl)
- Co-Located Wells
- Screened Interval (ft bbls): **Groundwater Elevation (ft amsl)**

NOTE:
Water table depressions on east side of Sierrita Tailing Impoundment taken from Figure 4.

0 2,000 4,000 8,000
Feet

Well labels:

- Wells with Static Water Levels
- ◆ Wells with Dynamic Water Levels



CLEAR CREEK ASSOCIATES

File ID
055039-128

Date
4/8/15

FIGURE 5
Groundwater Elevations
First 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

May 19, 2015

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1. INTRODUCTION

This report summarizes the data verification review of groundwater samples collected and analyzed during the fourth quarter 2014 and first quarter 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 86 samples collected are contained in 10 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
Fourth Quarter 2014	
Number of wells sampled: 42	
Number of well samples collected (including duplicates and multiple samples from one well): 47	
Number of duplicate samples collected: 5	
Number of reanalyzed samples: 0	
Total number of analyses: 47	
L21126	CW-3, CW-6, CW-9, CW-10, NP-2, GV-2, MO-2007-5B, MO-2007-5C, DUP20141013A
L20883	ESP-2, ESP-3, ESP-4
L21448	M-10, M-8, MH-14, MH-28, MH-29, MH-16W, DUP20141104A
L21581	PS-1, PS-2, PS-3, PS-4, MC-3, MC-4, FFS-6, FFS-5, MC-2, FFS-4, FFS-3, MC-1, FFS-2, FFS-1, MO-2007-1C, MO-2007-1B, MO-2007-1A, MO-2007-4B, MO-2007-4C, MO-2007-4A
L21582	MO-2007-3B, MO-2007-3C, DUP20141111A, DUP20141112A
L21860	MO-2007-6A, MO-2007-6B, MO-2009-1, DUP20141202A
First Quarter 2015	
Number of wells sampled: 34	
Number of well samples collected (including duplicates and multiple samples from one well): 39	
Number of duplicate samples collected: 5	
Number of reanalyzed samples: 0	
Total number of analyses: 39	
L22416	GV-1, GV-2, PS-4, PS-1, PS-2, PS-3, MC-3, MC-4, FFS-6, FFS-5, MC-2, FFS-4, FFS-3, MC-1, FFS-2, FFS-1, CW-10, CW-6, CW-9, MO-2009-1
L22327	MH-14, MH-28, MH-29, MH-16W, MO-2007-6A, MO-2007-6B, DUP201501042+7B
L22417	NP-2, MO-2007-4B, MO-2007-4C, MO-2007-4A, DUP20150112A, DUP20150112B
L22523	MO-200-3B, MO-2007-3C, DUP20150121A
L22522	M-10, M-9, DUP20150119A,

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 no target analytes were 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 report LL22522. The “M3” qualifier was used in the L21448, L22327, and L22522 reports. In all cases where an “M1” 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 fourth quarter 2014 and first quarter 2015, no field samples were submitted for reanalysis.

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, ten field duplicate samples were collected by Sierrita for filtered sulfate analysis. Five were collected in the fourth quarter 2014 (DUP20141013A, DUP20141104A, DUP20141111A, DUP20141112A, and DUP20141202A) and five were collected in the first quarter 2015 (DUP20150107B, DUP20150112A, DUP20150112B, DUP20150121A, and DUP20150119A). The collection of five field duplicate samples in both the fourth quarter 2014 and first 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 8.04 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
L21126	NP-2	DUP20141013A	41.1	41.3	0.49%
L21448	MH-16W	DUP20141101A	1880	1800	4.35%
L21582	FFS-5	DUP20141111A	1410	1320	6.59%
L21582	MO-2007-1A	DUP20141112A	16.1	16.8	4.26%
L21860	MO-2007-6A	DUP20141202A	18.3	18.3	0.00%
L22327	MH-29	DUP20150107B	1940	1790	8.04%
L22417	FFS-6	DUP20150112A	1180	1190	0.84%
L22417	FFS-1	DUP20150112B	1770	1760	0.57%
L22523	MO-2007-3C	DUP20150121A	68.5	70.3	2.59%
L22522	M-10	DUP20150119A	151	157	3.90%

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

October 14, 2014

Report to:

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

cc: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5

ACZ Project ID: L20883

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 03, 2014. This project has been assigned to ACZ's project number, L20883. 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 L20883. 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 November 13, 2014. 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: ESP-4

ACZ Sample ID: **L20883-01**

Date Sampled: 10/01/14 09:16

Date Received: 10/03/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	397			mg/L	5	25	10/10/14 1:58	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: ESP-2

ACZ Sample ID: **L20883-02**

Date Sampled: 10/01/14 10:12

Date Received: 10/03/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	26.8			mg/L	0.5	2.5	10/10/14 3:10	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: ESP-3

ACZ Sample ID: **L20883-03**

Date Sampled: 10/01/14 10:58

Date Received: 10/03/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	33.6			mg/L	0.5	2.5	10/10/14 3:27	jlf

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L20883****Sulfate**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG368886													
WG368886ICV	ICV	08/04/14 22:23	WI140722-1	50.05		46.7	mg/L	93.3	90	110			
WG368886ICB	ICB	08/04/14 22:40				U	mg/L		-1.5	1.5			
WG372605													
WG372605LFB1	LFB	10/09/14 16:24	WI141002-6	30		28.5	mg/L	95	90	110			
WG372605LFB2	LFB	10/10/14 1:04	WI141002-6	30		28.6	mg/L	95.3	90	110			
L20876-04DUP	DUP	10/10/14 1:40			96.4	94.5	mg/L				2	20	
L20883-01AS	AS	10/10/14 2:52	WI141002-6	300	397	695	mg/L	99.3	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L20883

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
--------	---------	-----------	--------	------	-------------

No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: L20883

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L20883
 Date Received: 10/03/2014 09:55
 Received By: ear
 Date Printed: 10/3/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
X		
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
3894	1.9	8	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.



Laboratories, Inc.

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

L20883

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
 Company: Freeport-McMoRan Sierrita Inc.
 E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
 Green Valley, AZ 85614
 Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
 Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
 Telephone: 520-622-3222

Invoice to:

Name:
 Company:
 E-mail:

Address:
 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?

YES
 NO

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

PROJECT INFORMATION			ANALYSES REQUESTED (attach list or use quote number)											
Quote #:	Project/PO #:	Reporting state for compliance testing:	# of Containers	SO4 by EPA 300 or EPA 375										
Sampler's Name: Jeff Joy														
Are any samples NRC licensable material? Yes No														
SAMPLE IDENTIFICATION	DATE:TIME	Matrix												
ESP-4	10/1/14 : 0916	GW			1	X								
ESP-2	10/1/14 : 1012	GW			1	X								
ESP-3	10/1/14 ; 1058	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.

UPS Tracking # 1Z 867 7E4 23 1001 123 6

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	10/2/14 : 1530	JRC	10-3-14 0955

FRMAD050.01.15.09

White - Return with sample.

Yellow - Retain for your records.

L20883-1410141601

Page 10 of 10

October 28, 2014

Report to:

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

cc: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5

ACZ Project ID: L21126

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on October 17, 2014. This project has been assigned to ACZ's project number, L21126. 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 L21126. 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 November 27, 2014. 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-10

ACZ Sample ID: **L21126-01**

Date Sampled: 10/13/14 08:40

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	48.2			mg/L	0.5	2.5	10/23/14 17:50	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-6

ACZ Sample ID: **L21126-02**

Date Sampled: 10/13/14 09:14

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	79.5			mg/L	1	5	10/23/14 18:08	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-9

ACZ Sample ID: **L21126-03**

Date Sampled: 10/13/14 10:07

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	42.0			mg/L	0.5	2.5	10/23/14 18:44	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: NP-2

ACZ Sample ID: **L21126-04**

Date Sampled: 10/13/14 12:49

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.1			mg/L	0.5	2.5	10/23/14 19:20	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: GV-2

ACZ Sample ID: **L21126-05**

Date Sampled: 10/14/14 08:35

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	48.5			mg/L	0.5	2.5	10/23/14 19:38	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-3

ACZ Sample ID: **L21126-06**

Date Sampled: 10/15/14 06:32

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	67.5			mg/L	0.5	2.5	10/23/14 20:31	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-5B

ACZ Sample ID: **L21126-07**

Date Sampled: 10/15/14 09:00

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	440			mg/L	5	25	10/23/14 20:49	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-5C

ACZ Sample ID: **L21126-08**

Date Sampled: 10/15/14 12:34

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	5	155			mg/L	2.5	12.5	10/23/14 21:07	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20141013A

ACZ Sample ID: **L21126-09**

Date Sampled: 10/13/14 00:00

Date Received: 10/17/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	41.3			mg/L	0.5	2.5	10/23/14 21:25	tcd

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L21126****Sulfate**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG368886													
WG368886ICV	ICV	08/04/14 22:23	WI140722-1	50.05		46.7	mg/L	93.3	90	110			
WG368886ICB	ICB	08/04/14 22:40				U	mg/L		-1.5	1.5			
WG373389													
WG373389LFB1	LFB	10/23/14 13:24	WI141002-6	30		29.8	mg/L	99.3	90	110			
L21020-01DUP	DUP	10/23/14 14:35			43.4	43.4	mg/L				0	20	
L21020-02AS	AS	10/23/14 15:15	WI141002-6	30	42.4	70.5	mg/L	93.7	90	110			
L21126-02DUP	DUP	10/23/14 18:26			79.5	79.8	mg/L				0.4	20	
L21126-03AS	AS	10/23/14 19:02	WI141002-6	30	42	70.1	mg/L	93.7	90	110			
WG373389LFB2	LFB	10/23/14 22:19	WI141002-6	30		29.9	mg/L	99.7	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L21126

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
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No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: **L21126**

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L21126
 Date Received: 10/17/2014 09:39
 Received By: ear
 Date Printed: 10/17/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4003	5	6	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.



Laboratories, Inc.

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

C21126

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:

Address:
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

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

NO
X

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
Project/PO #: ZS000005L5
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
CW-10	10/13/14 : 0840	GW	1	X							
CW-6	10/13/14 : 0914	GW	1	X							
CW-9	10/13/14 : 1007	GW	1	X							
NP-2	10/13/14 : 1249	GW	1	X							
GV-2	10/14/14 : 0835	GW	1	X							
CW-3	10/15/14 : 0632	GW	1	X							
MO-2007-5B	10/15/14 : 0900	GW	1	X							
MO-2007-5C	10/15/14 : 1234	GW	1	X							
DUP20141013A	10/13/14 : 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)
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REMARKS

Sulfates

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

UPS Tracking # 1Z 867 7E4 23 1001 124 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	10/16/14 : 1530	WPL	10-17-14 0939

February 03, 2015

Report to:

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

CC: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5 - SULFATE ONLY

ACZ Project ID: L21448

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 07, 2014. This project has been assigned to ACZ's project number, L21448. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L21448. 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 March 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: M-10

ACZ Sample ID: **L21448-01**

Date Sampled: 11/04/14 10:09

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	114			mg/L	5	25	11/21/14 16:39	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: M-8

ACZ Sample ID: **L21448-02**

Date Sampled: 11/04/14 11:43

Date Received: 11/07/14

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	11/14/14 23:10	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-14

ACZ Sample ID: **L21448-03**

Date Sampled: 11/04/14 12:50

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	120	1690	*		mg/L	120	600	11/13/14 17:07	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-28

ACZ Sample ID: **L21448-04**

Date Sampled: 11/04/14 13:28

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	120	1940	*		mg/L	120	600	11/13/14 17:09	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-29

ACZ Sample ID: **L21448-05**

Date Sampled: 11/04/14 13:52

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	120	1870	*		mg/L	120	600	11/13/14 17:09	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-16W

ACZ Sample ID: **L21448-06**

Date Sampled: 11/04/14 14:26

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	120	1880	*		mg/L	120	600	11/13/14 17:09	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20141104A

ACZ Sample ID: **L21448-07**

Date Sampled: 11/04/14 00:00

Date Received: 11/07/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	120	1800	*		mg/L	120	600	11/13/14 17:09	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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: **L21448**
Antimony, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.02002		.02111	mg/L	105	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L			-0.0012	0.0012			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.01		.01009	mg/L	101	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.01	U	.00999	mg/L	100	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.01	U	.01008	mg/L	101	70	130	1	20	

Arsenic, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.05397	mg/L	108	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L			-0.0006	0.0006			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.0501		.0488	mg/L	97	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.0501	U	.05009	mg/L	100	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.0501	U	.05087	mg/L	102	70	130	2	20	

Beryllium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.049923	mg/L	100	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L			-0.00015	0.00015			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.05005		.047639	mg/L	95	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.05005	U	.049538	mg/L	99	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.05005	U	.050244	mg/L	100	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
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.04965	mg/L	99	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L			-0.0003	0.0003			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.0501		.04734	mg/L	94	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.0501	U	.04775	mg/L	95	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.0501	U	.04822	mg/L	96	70	130	1	20	

Chromium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374494													
WG374494ICV	ICV	11/12/14 9:39	II141030-3	2		1.971	mg/L	98.6	95	105			
WG374494ICB	ICB	11/12/14 9:45			U	mg/L			-0.03	0.03			
WG374494LFB	LFB	11/12/14 9:57	II141030-2	.501		.506	mg/L	101	85	115			
L21423-06AS	AS	11/12/14 10:47	II141030-2	.501	U	.501	mg/L	100	85	115			
L21423-06ASD	ASD	11/12/14 10:50	II141030-2	.501	U	.51	mg/L	101.8	85	115	1.78	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L21448**
Cobalt, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374494													
WG374494ICV	ICV	11/12/14 9:39	II141030-3	2.002		1.964	mg/L	98.1	95	105			
WG374494ICB	ICB	11/12/14 9:45			U	mg/L			-0.03	0.03			
WG374494LFB	LFB	11/12/14 9:57	II141030-2	.5		.498	mg/L	99.6	85	115			
L21423-06AS	AS	11/12/14 10:47	II141030-2	.5	U	.478	mg/L	95.6	85	115			
L21423-06ASD	ASD	11/12/14 10:50	II141030-2	.5	U	.485	mg/L	97	85	115	1.45	20	

Copper, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374494													
WG374494ICV	ICV	11/12/14 9:39	II141030-3	2		1.97	mg/L	98.5	95	105			
WG374494ICB	ICB	11/12/14 9:45			U	mg/L			-0.03	0.03			
WG374494LFB	LFB	11/12/14 9:57	II141030-2	.4995		.516	mg/L	103.3	85	115			
L21423-06AS	AS	11/12/14 10:47	II141030-2	.4995	U	.522	mg/L	104.5	85	115			
L21423-06ASD	ASD	11/12/14 10:50	II141030-2	.4995	U	.523	mg/L	104.7	85	115	0.19	20	

Fluoride
SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374526													
WG374526ICV	ICV	11/12/14 12:40	WC141112-7	2		1.9	mg/L	95	95	105			
WG374526ICB	ICB	11/12/14 12:47				.054	mg/L		-0.15	0.15			
WG374526LFB1	LFB	11/12/14 13:02	WC140911-7	5.015		4.642	mg/L	92.6	90	110			
L21423-02AS	AS	11/12/14 14:20	WC140911-7	5.015	1.99	6.413	mg/L	88.2	90	110			M2
L21423-02DUP	DUP	11/12/14 14:26			1.99	1.981	mg/L				0.5	20	
WG374526LFB2	LFB	11/12/14 15:27	WC140911-7	5.015		4.663	mg/L	93	90	110			
L21448-05AS	AS	11/12/14 15:34	WC140911-7	5.015	.14	4.494	mg/L	86.8	90	110			M2
L21448-05DUP	DUP	11/12/14 15:38			.14	.145	mg/L				3.5	20	RA

Lead, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.05274	mg/L	105	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L			-0.0003	0.0003			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.05005		.04776	mg/L	95	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.05005	.0001	.04846	mg/L	97	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.05005	.0001	.04876	mg/L	97	70	130	1	20	

Magnesium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374494													
WG374494ICV	ICV	11/12/14 9:39	II141030-3	100		97.17	mg/L	97.2	95	105			
WG374494ICB	ICB	11/12/14 9:45			U	mg/L			-0.6	0.6			
WG374494LFB	LFB	11/12/14 9:57	II141030-2	50.00283		48.78	mg/L	97.6	85	115			
L21423-06AS	AS	11/12/14 10:47	II141030-2	50.00283	33	80.37	mg/L	94.7	85	115			
L21423-06ASD	ASD	11/12/14 10:50	II141030-2	50.00283	33	80.41	mg/L	94.8	85	115	0.05	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L21448**
Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374494													
WG374494ICV	ICV	11/12/14 9:39	II141030-3	2		2.035	mg/L	101.8	95	105			
WG374494ICB	ICB	11/12/14 9:45			U	mg/L		-0.06	0.06				
WG374494LFB	LFB	11/12/14 9:57	II141030-2	.4995		.504	mg/L	100.9	85	115			
L21423-06AS	AS	11/12/14 10:47	II141030-2	.4995	U	.496	mg/L	99.3	85	115			
L21423-06ASD	ASD	11/12/14 10:50	II141030-2	.4995	U	.499	mg/L	99.9	85	115	0.6	20	

Nickel, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.05013	mg/L	100	90	110			
WG374923ICB	ICB	11/19/14 10:50			U	mg/L		-0.0018	0.0018				
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.05		.04639	mg/L	93	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.05	.0011	.04581	mg/L	89	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.05	.0011	.04688	mg/L	92	70	130	2	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
WG374731													
WG374731ICV	ICV	11/14/14 22:47	WI141018-1	2.416		2.43	mg/L	100.6	90	110			
WG374731ICB	ICB	11/14/14 22:48			U	mg/L		-0.06	0.06				
WG374735													
WG374735LFB	LFB	11/15/14 0:48	WI140719-4	2		1.954	mg/L	97.7	90	110			
L21302-01AS	AS	11/15/14 0:50	WI140719-4	2	.41	2.386	mg/L	98.8	90	110			
L21302-02DUP	DUP	11/15/14 0:53			.41	.407	mg/L				0.7	20	
L21448-07AS	AS	11/15/14 1:07	WI140719-4	2	U	1.98	mg/L	99	90	110			
L21449-01DUP	DUP	11/15/14 1:24			6.14	6.112	mg/L				0.5	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374382													
WG374382PBW	PBW	11/10/14 14:19			U	mg/L		-20	20				
WG374382LCSW	LCSW	11/10/14 14:20	PCN47266	260		252	mg/L	96.9	80	120			
L21459-02DUP	DUP	11/10/14 14:39			6780	6740	mg/L				0.6	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.0507	mg/L	101	90	110			
WG374923ICB	ICB	11/19/14 10:50				.00011	mg/L		-0.0003	0.0003			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.05015		.04575	mg/L	91	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.05015	.0003	.04677	mg/L	93	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.05015	.0003	.04718	mg/L	93	70	130	1	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L21448**
Sulfate
D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374649													
WG374649ICB	ICB	11/13/14 13:21				U	mg/L		-3	3			
WG374649ICV	ICV	11/13/14 13:21	WI141113-1	20		20	mg/L	100	90	110			
WG374649LFB	LFB	11/13/14 16:03	WI141006-8	10.01		9.7	mg/L	96.9	90	110			
L21448-03DUP	DUP	11/13/14 17:09			1690	1680	mg/L				0.6	20	
L21448-04AS	AS	11/13/14 17:09	SO4TURB	10.0000008	1940	1940	mg/L	0	90	110			M3

Sulfate
M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG368886													
WG368886ICV	ICV	08/04/14 22:23	WI140722-1	50.05		46.7	mg/L	93.3	90	110			
WG368886ICB	ICB	08/04/14 22:40				U	mg/L		-1.5	1.5			
WG374709													
WG374709LFB1	LFB	11/14/14 15:42	WI141002-6	30		29	mg/L	96.7	90	110			
L21430-04DUP	DUP	11/14/14 20:28			4660	4680	mg/L				0.4	20	
L21431-01AS	AS	11/14/14 21:04	WI141002-6	30	3.11	32.3	mg/L	97.3	90	110			
WG374709LFB2	LFB	11/15/14 0:21	WI141002-6	30		29.9	mg/L	99.7	90	110			
WG374979													
L21511-01DUP	DUP	11/20/14 19:40			10.1	10.1	mg/L				0	20	
L21511-02AS	AS	11/20/14 20:16	WI141002-6	30	5.83	33.7	mg/L	93	90	110			
WG374979LFB	LFB	11/21/14 12:26	WI141002-6	30		29.2	mg/L	97	90	110			

Thallium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG374923													
WG374923ICV	ICV	11/19/14 10:48	MS141027-2	.05		.05191	mg/L	104	90	110			
WG374923ICB	ICB	11/19/14 10:50				U	mg/L		-0.0003	0.0003			
WG374923LFB	LFB	11/19/14 10:54	MS141103-2	.0502		.04764	mg/L	95	85	115			
L21434-01AS	AS	11/19/14 11:08	MS141103-2	.0502	U	.04801	mg/L	96	70	130			
L21434-01ASD	ASD	11/19/14 11:10	MS141103-2	.0502	U	.04849	mg/L	97	70	130	1	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: L21448

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L21448-03	WG374649	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.
L21448-04	WG374649	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.
L21448-05	WG374649	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.
L21448-06	WG374649	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.
L21448-07	WG374649	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.

FMI Gold & Copper - Sierrita

ACZ Project ID: **L21448**

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L21448
 Date Received: 11/07/2014 09:47
 Received By: ddp
 Date Printed: 11/7/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

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

YES	NO	NA
X		
X		
X		
X		
X		
		X
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
----- 3124	----- 1.5	----- 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.



Laboratories, Inc.

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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:

Address:
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	<input type="checkbox"/>
NO	<input type="checkbox"/>

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

YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
Project/PO #: ZS000005L5
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375	Quarterly						
M-10	11/4/14 : 1009	GW	1	X							
M-8	11/4/14 : 1143	GW	1	X							
MH-14	11/4/14 : 1250	GW	3		X						
MH-28	11/4/14 : 1328	GW	3		X						
MH-29	11/4/14 : 1352	GW	3		X						
MH-16W	11/4/14 : 1426	GW	3		X						
DUP20141104A	11/4/14 : 0000	GW	3		X						

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

EMARKS

Sulfates/POC Quarterly

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

UPS Tracking # 1Z 867 7E4 23 1001 128 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	11/6/14 : 1530	LPC	11/14 08:17

November 25, 2014

Report to:

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

cc: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5

ACZ Project ID: L21581

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 14, 2014. This project has been assigned to ACZ's project number, L21581. 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 L21581. 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 December 25, 2014. 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-1

ACZ Sample ID: **L21581-01**

Date Sampled: 11/10/14 11:20

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1150			mg/L	10	50	11/24/14 18:27	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-2

ACZ Sample ID: **L21581-02**

Date Sampled: 11/10/14 11:30

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1020			mg/L	10	50	11/24/14 19:03	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-3

ACZ Sample ID: **L21581-03**

Date Sampled: 11/10/14 11:40

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1090			mg/L	10	50	11/24/14 19:39	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-4

ACZ Sample ID: **L21581-04**

Date Sampled: 11/10/14 11:50

Date Received: 11/14/14

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	11/24/14 19:57	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-4

ACZ Sample ID: **L21581-05**

Date Sampled: 11/11/14 09:25

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1280			mg/L	10	50	11/24/14 20:15	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-3

ACZ Sample ID: **L21581-06**

Date Sampled: 11/11/14 09:38

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1440			mg/L	10	50	11/24/14 20:33	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-6

ACZ Sample ID: **L21581-07**

Date Sampled: 11/11/14 09:50

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1170			mg/L	10	50	11/24/14 21:26	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-5

ACZ Sample ID: **L21581-08**

Date Sampled: 11/11/14 10:00

Date Received: 11/14/14

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	11/24/14 21:44	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-2

ACZ Sample ID: **L21581-09**

Date Sampled: 11/11/14 10:15

Date Received: 11/14/14

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	11/24/14 22:02	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-4

ACZ Sample ID: **L21581-10**

Date Sampled: 11/11/14 10:30

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1310			mg/L	10	50	11/24/14 22:20	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-3

ACZ Sample ID: **L21581-11**

Date Sampled: 11/11/14 10:40

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1570			mg/L	10	50	11/24/14 22:38	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-1

ACZ Sample ID: **L21581-12**

Date Sampled: 11/11/14 10:50

Date Received: 11/14/14

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	11/25/14 11:56	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-2

ACZ Sample ID: **L21581-13**

Date Sampled: 11/11/14 11:12

Date Received: 11/14/14

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	11/24/14 23:50	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-1

ACZ Sample ID: **L21581-14**

Date Sampled: 11/11/14 11:25

Date Received: 11/14/14

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	11/25/14 0:08	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-1C

ACZ Sample ID: **L21581-15**

Date Sampled: 11/12/14 10:17

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	10	92.7			mg/L	5	25	11/25/14 1:01	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-1B

ACZ Sample ID: **L21581-16**

Date Sampled: 11/12/14 10:20

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	885			mg/L	10	50	11/25/14 1:19	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-1A

ACZ Sample ID: **L21581-17**

Date Sampled: 11/12/14 10:52

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	16.1			mg/L	0.5	2.5	11/25/14 1:37	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4B

ACZ Sample ID: **L21581-18**

Date Sampled: 11/12/14 12:49

Date Received: 11/14/14

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	11/25/14 1:55	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4C

ACZ Sample ID: **L21581-19**

Date Sampled: 11/12/14 13:13

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	52.9			mg/L	0.5	2.5	11/25/14 2:13	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4A

ACZ Sample ID: **L21581-20**

Date Sampled: 11/12/14 14:09

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	34.3			mg/L	0.5	2.5	11/25/14 2:31	jlf

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L21581****Sulfate**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG375232													
WG375232LFB	LFB	11/24/14 18:09	WI141002-6	30		29.9	mg/L	100	90	110			
L21581-01DUP	DUP	11/24/14 18:45			1150	1150	mg/L				0	20	
L21581-02AS	AS	11/24/14 19:21	WI141002-6	600	1020	1670	mg/L	108	90	110			
L21581-11DUP	DUP	11/24/14 22:56			1570	1490	mg/L				5	20	
L21581-12AS	AS	11/25/14 12:14	WI141002-6	1500	1750	3220	mg/L	98	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L21581

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
--------	---------	-----------	--------	------	-------------

No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: L21581

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L21581
 Date Received: 11/14/2014 10:02
 Received By: ear
 Date Printed: 11/14/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples? X

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
3073	0.9	16	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

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:

Address:
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	<input type="checkbox"/>
NO	<input type="checkbox"/>

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	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>

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

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
Project/PO #: ZS000005L5
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
PS-1	11/10/14 : 1120	GW	1	X							
PS-2	11/10/14 : 1130	GW	1	X							
PS-3	11/10/14 : 1140	GW	1	X							
PS-4	11/10/14 : 1150	GW	1	X							
MC-4	11/11/14 : 0925	GW	1	X							
MC-3	11/11/14 : 0938	GW	1	X							
FFS-6	11/11/14 : 0950	GW	1	X							
FFS-5	11/11/14 : 1000	GW	1	X							
MC-2	11/11/14 : 1015	GW	1	X							
FFS-4	11/11/14 : 1030	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 3

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

UPS Tracking # 1Z 867 7E4 23 1001 129 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	11/13/14 : 1530	LL	11/14/14 1022



Laboratories, Inc.

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

L21581
CHAIN of CUSTODY

Report to:

Name: Jon Anderson
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
Telephone: 520-622-3222

Invoice to:

Name:
Company:
E-mail:

Address:
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	<input type="checkbox"/>
NO	<input type="checkbox"/>

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

YES	<input type="checkbox"/>
NO	<input checked="" type="checkbox"/>

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
Project/PO #: ZS000005LS
Reporting state for compliance testing:
Sampler's Name: Jeff Joy
Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
				SO4	by EPA 300	or EPA 375					
FFS-3	11/11/14 : 1040	GW	1	X							
MC-1	11/11/14 : 1050	GW	1	X							
FFS-2	11/11/14 : 1112	GW	1	X							
FFS-1	11/11/14 : 1125	GW	1	X							
MO-2007-1C	11/12/14 : 1017	GW	1	X							
MO-2007-1B	11/12/14 : 1020	GW	1	X							
MO-2007-1A	11/12/14 : 1052	GW	1	X							
MO-2007-4B	11/12/14 : 1249	GW	1	X							
MO-2007-4C	11/12/14 : 1313	GW	1	X							
MO-2007-4A	11/12/14 : 1409	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 3

Copy of report to Ben Daigneau contains only "SO4" results with QC Summary.

UPS Tracking # 1Z 867 7E4 23 1001 129 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	11/13/14 : 1530	LPL	11/14/14 1002

November 25, 2014

Report to:

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

cc: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5

ACZ Project ID: L21582

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on November 14, 2014. This project has been assigned to ACZ's project number, L21582. 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 L21582. 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 December 25, 2014. 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-3B

ACZ Sample ID: **L21582-01**

Date Sampled: 11/13/14 09:22

Date Received: 11/14/14

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	11/24/14 13:03	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-3C

ACZ Sample ID: **L21582-02**

Date Sampled: 11/13/14 10:32

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	20.2	*		mg/L	0.5	2.5	11/24/14 13:39	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20141111A

ACZ Sample ID: **L21582-03**

Date Sampled: 11/11/14 00:00

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1320	*		mg/L	10	50	11/24/14 16:20	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20141112A

ACZ Sample ID: **L21582-04**

Date Sampled: 11/12/14 00:00

Date Received: 11/14/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	16.8	*		mg/L	0.5	2.5	11/24/14 15:44	jlf

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L21582****Sulfate**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG375125LFB	LFB	11/21/14 16:21	WI141002-6	30		29.4	mg/L	98	90	110			
L21582-01DUP	DUP	11/24/14 13:21				U	mg/L				0	20	RA
L21582-04AS	AS	11/24/14 16:02	WI141002-6	30	16.8	45.6	mg/L	96	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L21582

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L21582-01	WG375125	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).
L21582-02	WG375125	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).
L21582-03	WG375125	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).
L21582-04	WG375125	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).

FMI Gold & Copper - Sierrita

ACZ Project ID: L21582

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L21582
 Date Received: 11/14/2014 10:02
 Received By: ear
 Date Printed: 11/14/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
3073	0.9	16	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.

December 16, 2014

Report to:

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

cc: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5

ACZ Project ID: L21860

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on December 05, 2014. This project has been assigned to ACZ's project number, L21860. 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 L21860. 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 January 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-6A

ACZ Sample ID: **L21860-01**

Date Sampled: 12/02/14 08:41

Date Received: 12/05/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	18.3			mg/L	0.5	2.5	12/10/14 22:51	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-6B

ACZ Sample ID: **L21860-02**

Date Sampled: 12/02/14 09:26

Date Received: 12/05/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	82.3			mg/L	0.5	2.5	12/10/14 23:09	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2009-1

ACZ Sample ID: **L21860-03**

Date Sampled: 12/02/14 11:37

Date Received: 12/05/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	89.8			mg/L	1	5	12/11/14 0:03	jlf

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20141202A

ACZ Sample ID: **L21860-04**

Date Sampled: 12/02/14 00:00

Date Received: 12/05/14

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	18.3			mg/L	0.5	2.5	12/11/14 0:21	jlf

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L21860****Sulfate**

M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG375891													
WG375891LFB	LFB	12/10/14 17:29	WI141002-6	30		29.4	mg/L	98	90	110			
L21847-01DUP	DUP	12/10/14 21:58			121	122	mg/L				1	20	
L21847-02AS	AS	12/10/14 22:34	WI141002-6	60	126	189	mg/L	105	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L21860

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
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No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: **L21860**

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L21860
 Date Received: 12/05/2014 09:53
 Received By: ddp
 Date Printed: 12/5/2014

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples?
- 2) Is the Chain of Custody or other directive shipping papers present?
- 3) Does this project require special handling procedures such as CLP protocol?
- 4) Are any samples NRC licensable material?
- 5) If samples are received past hold time, proceed with requested short hold time analyses?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

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

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4362	2.8	17	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.



Laboratories, Inc.

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

L21860

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
 Company: Freeport-McMoRan Sierrita Inc.
 E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
 Green Valley, AZ 85614
 Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
 Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
 Telephone: 520-622-3222

Invoice to:

Name:
 Company:
 E-mail:

Address:
 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

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
 Project/PO #: ZS000005L5
 Reporting state for compliance testing:
 Sampler's Name: Jeff Joy
 Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MO-2007-6A	12/2/14 : 0841	GW	1	X							
MO-2007-6B	12/2/14 : 0926	GW	1	X							
MO-2009-1	12/2/14 : 1137	GW	1	X							
DUP20141202A	12/2/14 : 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.

UPS Tracking # 1Z 867 7E4 23 1001 130 7

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	12/3/14 : 1530	L218	12/5/14 9:53

FRMAD050.01.15.09

White - Return with sample.

Yellow - Retain for your records.

L21860-1412160909

April 06, 2015

Report to:

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

CC: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5 - SULFATE ONLY

ACZ Project ID: L22327

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 12, 2015. This project has been assigned to ACZ's project number, L22327. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L22327. 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 06, 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-14

ACZ Sample ID: **L22327-01**

Date Sampled: 01/07/15 11:20

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	100	1780	*		mg/L	100	500	01/21/15 12:17	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-28

ACZ Sample ID: **L22327-02**

Date Sampled: 01/07/15 12:06

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	100	2020	*		mg/L	100	500	01/21/15 12:17	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-29

ACZ Sample ID: **L22327-03**

Date Sampled: 01/07/15 12:39

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	100	1790	*		mg/L	100	500	01/21/15 12:17	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MH-16W

ACZ Sample ID: **L22327-04**

Date Sampled: 01/07/15 13:14

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	100	2060	*		mg/L	100	500	01/21/15 12:17	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-6A

ACZ Sample ID: **L22327-05**

Date Sampled: 01/08/15 09:28

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	1	13.5	*		mg/L	1	5	01/21/15 12:00	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-6B

ACZ Sample ID: **L22327-06**

Date Sampled: 01/08/15 10:14

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	5	84.2	*		mg/L	5	25	01/21/15 12:08	mss2

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20150107B

ACZ Sample ID: **L22327-07**

Date Sampled: 01/07/15 00:00

Date Received: 01/12/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	100	1940	*		mg/L	100	500	01/21/15 12:18	mss2

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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: **L22327**
Antimony, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.02002		.02107	mg/L	105	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.0012	0.0012			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.01		.00977	mg/L	98	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.02	U	.02038	mg/L	102	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.02	U	.02016	mg/L	101	70	130	1	20	

Arsenic, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.05198	mg/L	104	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.0006	0.0006			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.0501		.04502	mg/L	90	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1002	.0019	.10214	mg/L	100	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1002	.0019	.10316	mg/L	101	70	130	1	20	

Beryllium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.049	mg/L	98	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.00015	0.00015			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.05005		.04408	mg/L	88	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1001	U	.09486	mg/L	95	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1001	U	.0945	mg/L	94	70	130	0	20	

Cadmium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.05031	mg/L	101	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.0003	0.0003			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.0501		.046	mg/L	92	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1002	U	.09388	mg/L	94	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1002	U	.09244	mg/L	92	70	130	2	20	

Chromium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377311													
WG377311ICV	ICV	01/14/15 15:37	II141217-1	2		1.985	mg/L	99	95	105			
WG377311ICB	ICB	01/14/15 15:43			U	mg/L			-0.03	0.03			
WG377311LFB	LFB	01/14/15 15:56	II141226-2	.5005		.484	mg/L	97	85	115			
L22326-04AS	AS	01/14/15 16:50	II141226-2	.5005	U	.479	mg/L	96	85	115			
L22326-04ASD	ASD	01/14/15 16:53	II141226-2	.5005	U	.486	mg/L	97	85	115	1	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L22327**
Cobalt, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377311													
WG377311ICV	ICV	01/14/15 15:37	II141217-1	2.002		2.006	mg/L	100	95	105			
WG377311ICB	ICB	01/14/15 15:43			U	mg/L		-0.03	0.03				
WG377311LFB	LFB	01/14/15 15:56	II141226-2	.5		.488	mg/L	98	85	115			
L22326-04AS	AS	01/14/15 16:50	II141226-2	.5	U	.471	mg/L	94	85	115			
L22326-04ASD	ASD	01/14/15 16:53	II141226-2	.5	U	.486	mg/L	97	85	115	3	20	

Copper, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377311													
WG377311ICV	ICV	01/14/15 15:37	II141217-1	2		1.987	mg/L	99	95	105			
WG377311ICB	ICB	01/14/15 15:43			U	mg/L		-0.03	0.03				
WG377311LFB	LFB	01/14/15 15:56	II141226-2	.499		.494	mg/L	99	85	115			
L22326-04AS	AS	01/14/15 16:50	II141226-2	.499	U	.51	mg/L	102	85	115			
L22326-04ASD	ASD	01/14/15 16:53	II141226-2	.499	U	.51	mg/L	102	85	115	0	20	

Fluoride
SM4500F-C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377439													
WG377439ICV	ICV	01/16/15 11:22	WC150112-7	2		1.906	mg/L	95	95	105			
WG377439ICB	ICB	01/16/15 11:27				.067	mg/L	-0.15	0.15				
WG377441													
WG377441LFB1	LFB	01/16/15 15:09	WC140911-7	5.015		4.694	mg/L	94	90	110			
L22319-05AS	AS	01/16/15 15:15	WC140911-7	5.015	3.11	7.924	mg/L	96	90	110			
L22319-05DUP	DUP	01/16/15 15:18			3.11	3.018	mg/L				3	20	
L22327-04AS	AS	01/16/15 16:17	WC140911-7	5.015	.14	4.549	mg/L	88	90	110			M2
L22327-04DUP	DUP	01/16/15 16:25			.14	.149	mg/L				6	20	RA

Lead, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.05016	mg/L	100	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L		-0.0003	0.0003				
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.05005		.04383	mg/L	88	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1001	U	.09352	mg/L	93	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1001	U	.09304	mg/L	93	70	130	1	20	

Magnesium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377311													
WG377311ICV	ICV	01/14/15 15:37	II141217-1	100		97.96	mg/L	98	95	105			
WG377311ICB	ICB	01/14/15 15:43			U	mg/L		-0.6	0.6				
WG377311LFB	LFB	01/14/15 15:56	II141226-2	50.00283		48	mg/L	96	85	115			
L22326-04AS	AS	01/14/15 16:50	II141226-2	50.00283	105	147.9	mg/L	86	85	115			
L22326-04ASD	ASD	01/14/15 16:53	II141226-2	50.00283	105	147.9	mg/L	86	85	115	0	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L22327**
Molybdenum, dissolved

M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377311													
WG377311ICV	ICV	01/14/15 15:37	II141217-1	2		2.041	mg/L	102	95	105			
WG377311ICB	ICB	01/14/15 15:43			U	mg/L			-0.06	0.06			
WG377311LFB	LFB	01/14/15 15:56	II141226-2	.5005		.494	mg/L	99	85	115			
L22326-04AS	AS	01/14/15 16:50	II141226-2	.5005	U	.491	mg/L	98	85	115			
L22326-04ASD	ASD	01/14/15 16:53	II141226-2	.5005	U	.508	mg/L	101	85	115	3	20	

Nickel, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.05052	mg/L	101	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.0018	0.0018			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.05		.04567	mg/L	91	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1	.002	.0867	mg/L	85	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1	.002	.0873	mg/L	85	70	130	1	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
WG377804													
WG377804ICV	ICV	01/22/15 18:23	WI150120-5	2.416		2.297	mg/L	95	90	110			
WG377804ICB	ICB	01/22/15 18:25			U	mg/L			-0.06	0.06			
WG377808													
WG377808LFB	LFB	01/22/15 23:23	WI141226-3	2		1.944	mg/L	97	90	110			
L22326-05AS	AS	01/22/15 23:26	WI141226-3	2	1.97	3.868	mg/L	95	90	110			
L22327-01DUP	DUP	01/22/15 23:28			1.25	1.261	mg/L				1	20	

Residue, Filterable (TDS) @180C

SM2540C

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377301													
WG377301PBW	PBW	01/14/15 9:30			U	mg/L			-20	20			
WG377301LCSW	LCSW	01/14/15 9:31	PCN47026	260		258	mg/L	99	80	120			
L22313-03DUP	DUP	01/14/15 9:49			148	152	mg/L				3	10	

Selenium, dissolved

M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.05055	mg/L	101	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L			-0.0003	0.0003			
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.05015		.04615	mg/L	92	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1003	.0008	.105	mg/L	104	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1003	.0008	.10618	mg/L	105	70	130	1	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L22327**
Sulfate
D516-02/-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377660													
WG377660ICB	ICB	01/21/15 10:51				U	mg/L		-3	3			
WG377660ICV	ICV	01/21/15 10:51	WI150120-3	20		20.1	mg/L	101	90	110			
WG377660LFB	LFB	01/21/15 12:00	WI141006-8	10.01		9.3	mg/L	93	90	110			
L22327-01DUP	DUP	01/21/15 12:17			1780	1780	mg/L				0	20	
L22327-02AS	AS	01/21/15 12:18	SO4TURB50X	20	2020	1980	mg/L	-200	90	110			M3

Thallium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377484													
WG377484ICV	ICV	01/17/15 4:19	MS141231-2	.05		.04951	mg/L	99	90	110			
WG377484ICB	ICB	01/17/15 4:22			U	mg/L		-0.0003	0.0003				
WG377484LFB	LFB	01/17/15 4:26	MS150106-2	.0502		.04332	mg/L	86	85	115			
L22327-01AS	AS	01/17/15 4:35	MS150106-2	.1004	U	.0929	mg/L	93	70	130			
L22327-01ASD	ASD	01/17/15 4:38	MS150106-2	.1004	U	.09278	mg/L	92	70	130	0	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: L22327

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L22327-01	WG377660	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.
L22327-02	WG377660	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.
L22327-03	WG377660	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.
L22327-04	WG377660	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.
L22327-05	WG377660	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.
L22327-06	WG377660	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.
L22327-07	WG377660	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.

FMI Gold & Copper - Sierrita

ACZ Project ID: L22327

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L22327
 Date Received: 01/12/2015 10:04
 Received By: ddp
 Date Printed: 1/12/2015

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits?
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
X		
X		
		X
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
3851	0.9	18	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.

January 23, 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: ZS000005L5

ACZ Project ID: L22416

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 16, 2015. This project has been assigned to ACZ's project number, L22416. 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 L22416. 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 February 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: GV-1

ACZ Sample ID: **L22416-01**

Date Sampled: 01/12/15 08:38

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	33.7			mg/L	0.5	2.5	01/21/15 16:49	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: GV-2

ACZ Sample ID: **L22416-02**

Date Sampled: 01/12/15 09:13

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	46.4			mg/L	0.5	2.5	01/21/15 17:07	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-4

ACZ Sample ID: **L22416-03**

Date Sampled: 01/12/15 11:45

Date Received: 01/16/15

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	01/21/15 17:25	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-1

ACZ Sample ID: **L22416-04**

Date Sampled: 01/12/15 11:59

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1130			mg/L	10	50	01/21/15 18:18	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-2

ACZ Sample ID: **L22416-05**

Date Sampled: 01/12/15 12:08

Date Received: 01/16/15

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	01/21/15 18:36	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: PS-3

ACZ Sample ID: **L22416-06**

Date Sampled: 01/12/15 12:15

Date Received: 01/16/15

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	01/21/15 18:54	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-4

ACZ Sample ID: **L22416-07**

Date Sampled: 01/12/15 12:30

Date Received: 01/16/15

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	01/21/15 19:12	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-3

ACZ Sample ID: **L22416-08**

Date Sampled: 01/12/15 12:40

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1350			mg/L	10	50	01/21/15 19:30	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-6

ACZ Sample ID: **L22416-09**

Date Sampled: 01/12/15 12:50

Date Received: 01/16/15

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	01/21/15 20:06	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-5

ACZ Sample ID: **L22416-10**

Date Sampled: 01/12/15 13:02

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1360			mg/L	10	50	01/21/15 20:42	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-2

ACZ Sample ID: **L22416-11**

Date Sampled: 01/12/15 13:15

Date Received: 01/16/15

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	01/21/15 21:00	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-4

ACZ Sample ID: **L22416-12**

Date Sampled: 01/12/15 13:25

Date Received: 01/16/15

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	01/21/15 21:53	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-3

ACZ Sample ID: **L22416-13**

Date Sampled: 01/12/15 13:35

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1500			mg/L	10	50	01/21/15 22:11	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MC-1

ACZ Sample ID: **L22416-14**

Date Sampled: 01/12/15 13:44

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	20	1660			mg/L	10	50	01/21/15 22:29	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-2

ACZ Sample ID: **L22416-15**

Date Sampled: 01/12/15 14:02

Date Received: 01/16/15

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	01/21/15 22:47	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: FFS-1

ACZ Sample ID: **L22416-16**

Date Sampled: 01/12/15 14:14

Date Received: 01/16/15

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	01/21/15 23:05	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-10

ACZ Sample ID: **L22416-17**

Date Sampled: 01/13/15 08:43

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	48.5			mg/L	0.5	2.5	01/21/15 23:23	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-6

ACZ Sample ID: **L22416-18**

Date Sampled: 01/13/15 09:16

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	80.5			mg/L	1	5	01/21/15 23:59	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: CW-9

ACZ Sample ID: **L22416-19**

Date Sampled: 01/13/15 10:12

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	44.7			mg/L	0.5	2.5	01/22/15 0:35	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2009-1

ACZ Sample ID: **L22416-20**

Date Sampled: 01/13/15 12:39

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	31.2			mg/L	1	5	01/22/15 1:46	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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: **L22416**
Sulfate
M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG377674													
WG377674LFB1	LFB	01/21/15 15:01	WI141002-6	30		29.7	mg/L	99	90	110			
L22392-01DUP	DUP	01/21/15 15:37			3460	3470	mg/L				0	20	
L22416-08DUP	DUP	01/21/15 19:48			1350	1360	mg/L				1	20	
L22416-09AS	AS	01/21/15 20:24	WI141002-6	600	1180	1770	mg/L	98	90	110			
WG377674LFB2	LFB	01/21/15 23:41	WI141002-6	30		29.6	mg/L	99	90	110			
L22416-18DUP	DUP	01/22/15 0:17			80.5	80.6	mg/L				0	20	
L22416-19AS	AS	01/22/15 1:28	WI141002-6	30	44.7	73.1	mg/L	95	90	110			
L22392-02AS	AS	01/22/15 12:25	WI141002-6	600	745	1360	mg/L	103	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L22416

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
--------	---------	-----------	--------	------	-------------

No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: L22416

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L22416
 Date Received: 01/16/2015 10:02
 Received By: ddp
 Date Printed: 1/16/2015

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
NA21100	3.6	19	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.



Laboratories, Inc.

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

C22416

CHAIN of CUSTODY

Report to:

Name: Jon Anderson
 Company: Freeport-McMoRan Sierrita Inc.
 E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
 Green Valley, AZ 85614
 Telephone: 520-393-2714

Copy of Report to:

Name: Ben Daigneau
 Company: Clear Creek Associates

E-mail: bdaigneau@clearcreekassociates.com
 Telephone: 520-622-3222

Invoice to:

Name:
 Company:
 E-mail:

Address:

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?

YES
 NO

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

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:
 Project/PO #: ZS000005L5
 Reporting state for compliance testing:
 Sampler's Name: Jeff Joy
 Are any samples NRC licensable material? Yes No

SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	SO4 by EPA 300 or EPA 375							
MC-2	1/12/15 : 1315	GW	1	X							
FFS-4	1/12/15 : 1325	GW	1	X							
FFS-3	1/12/15 : 1335	GW	1	X							
MC-1	1/12/15 : 1344	GW	1	X							
FFS-2	1/12/15 : 1402	GW	1	X							
FFS-1	1/12/15 : 1414	GW	1	X							
CW-10	1/13/15 : 0843	GW	1	X							
CW-6	1/13/15 : 0916	GW	1	X							
CW-9	1/13/15 : 1012	GW	1	X							
MO-2009-1	1/13/15 : 1239	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 3

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 133 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	1/15/15 : 1530	LPC	1/16/15 1050

January 23, 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: ZS000005L5

ACZ Project ID: L22417

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 16, 2015. This project has been assigned to ACZ's project number, L22417. 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 L22417. 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 February 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: NP-2

ACZ Sample ID: **L22417-01**

Date Sampled: 01/14/15 08:58

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	42.9			mg/L	0.5	2.5	01/20/15 21:13	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4B

ACZ Sample ID: **L22417-02**

Date Sampled: 01/14/15 11:14

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	16.8			mg/L	0.5	2.5	01/20/15 21:31	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4C

ACZ Sample ID: **L22417-03**

Date Sampled: 01/14/15 11:37

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	65.0			mg/L	0.5	2.5	01/20/15 21:49	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-4A

ACZ Sample ID: **L22417-04**

Date Sampled: 01/14/15 11:52

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	1	34.4			mg/L	0.5	2.5	01/22/15 2:04	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20150112A

ACZ Sample ID: **L22417-05**

Date Sampled: 01/12/15 00:00

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1190			mg/L	25	125	01/22/15 12:43	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20150112B

ACZ Sample ID: **L22417-06**

Date Sampled: 01/12/15 00:00

Date Received: 01/16/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	50	1760			mg/L	25	125	01/22/15 13:01	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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 - SierritaACZ Project ID: **L22417****Sulfate** M300.0 - Ion Chromatography

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG377597													
WG377597LFB	LFB	01/20/15 14:21	WI141002-6	30		29.9	mg/L	100	90	110			
L22402-03DUP	DUP	01/20/15 19:07				12.5	mg/L				1	20	
L22402-04AS	AS	01/20/15 19:43	WI141002-6	150	140	292	mg/L	101	90	110			
WG377674													
WG377674LFB1	LFB	01/21/15 15:01	WI141002-6	30		29.7	mg/L	99	90	110			
WG377674LFB2	LFB	01/21/15 23:41	WI141002-6	30		29.6	mg/L	99	90	110			
L22416-18DUP	DUP	01/22/15 0:17				80.5	mg/L				0	20	
L22416-19AS	AS	01/22/15 1:28	WI141002-6	30	44.7	73.1	mg/L	95	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L22417

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
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No extended qualifiers associated with this analysis

FMI Gold & Copper - Sierrita

ACZ Project ID: **L22417**

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L22417
 Date Received: 01/16/2015 10:02
 Received By: ddp
 Date Printed: 1/16/2015

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
-----	-----	-----	-----
NA21100	3.6	19	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.

March 20, 2015

Report to:

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

CC: Ben Daigneau

Bill to:

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

Project ID: ZS000005L5 - SULFATE ONLY

ACZ Project ID: L22522

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 23, 2015. This project has been assigned to ACZ's project number, L22522. Please reference this number in all future inquiries.

At the request of Phelps Dodge Sierrita, Inc. (PDSI), this laboratory report has been prepared to contain only information specific to samples and analytes identified by PDSI as evaluated pursuant to Mitigation Order No. P-500-06 with Arizona Department of Environmental Quality. Samples and analytes unrelated to the Mitigation Order, but which may be identified on the chain of custody and sample receipt, have been reported to PDSI in a separate report.

All analyses were performed according to ACZ's Quality Assurance Plan. The enclosed results relate only to the samples received under L22522. 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 April 19, 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.



Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: M-10

ACZ Sample ID: **L22522-02**

Date Sampled: 01/19/15 14:46

Date Received: 01/23/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	5	151	*		mg/L	5	25	01/27/15 14:03	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: M-9

ACZ Sample ID: **L22522-03**

Date Sampled: 01/20/15 10:11

Date Received: 01/23/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	5	74.0	*		mg/L	5	25	01/27/15 14:03	bsu

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20150119A

ACZ Sample ID: **L22522-07**

Date Sampled: 01/19/15 00:00

Date Received: 01/23/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	D516-02-07 - Turbidimetric	5	157	*		mg/L	5	25	01/27/15 14:36	bsu

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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: **L22522**
Arsenic, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG378328													
WG378328ICV	ICV	02/03/15 19:13	MS150202-2	.05		.05014	mg/L	100	90	110			
WG378328ICB	ICB	02/03/15 19:15				U	mg/L		-0.0006	0.0006			
WG378328LFB	LFB	02/03/15 19:18	MS150106-2	.0501		.04617	mg/L	92	85	115			
L22522-03AS	AS	02/03/15 19:27	MS150106-2	.0501	.0051	.05308	mg/L	96	70	130			
L22522-03ASD	ASD	02/03/15 19:30	MS150106-2	.0501	.0051	.05442	mg/L	98	70	130	2	20	

Cadmium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		1.9428	mg/L	97	95	105			
WG377894ICB	ICB	01/26/15 17:23				U	mg/L		-0.015	0.015			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	.501		.5055	mg/L	101	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	.501	U	.4919	mg/L	98	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	.501	U	.4876	mg/L	97	85	115	1	20	

Calcium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	100		99.41	mg/L	99	95	105			
WG377894ICB	ICB	01/26/15 17:23				U	mg/L		-0.3	0.3			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	67.99189		70.53	mg/L	104	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	67.99189	35.1	105.1	mg/L	103	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	67.99189	35.1	106.6	mg/L	105	85	115	1	20	

Chromium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		1.966	mg/L	98	95	105			
WG377894ICB	ICB	01/26/15 17:23				U	mg/L		-0.03	0.03			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	.5005		.51	mg/L	102	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	.5005	U	.507	mg/L	101	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	.5005	U	.51	mg/L	102	85	115	1	20	

Conductivity @25C
SM2510B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377979													
WG377979LCSW2	LCSW	01/27/15 17:36	PCN47276	1409		1470	umhos/cm	104	90	110			
WG377979LCSW5	LCSW	01/27/15 20:18	PCN47276	1409		1470	umhos/cm	104	90	110			
WG377979LCSW8	LCSW	01/27/15 22:53	PCN47276	1409		1470	umhos/cm	104	90	110			
L22524-02DUP	DUP	01/28/15 10:10			1.7	1.2	umhos/cm				34	20	RA
WG377979LCSW11	LCSW	01/28/15 1:40	PCN47276	1409		1460	umhos/cm	104	90	110			
WG377979LCSW14	LCSW	01/28/15 4:30	PCN47276	1409		1440	umhos/cm	102	90	110			

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L22522**
Copper, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		1.957	mg/L	98	95	105			
WG377894ICB	ICB	01/26/15 17:23			U	mg/L			-0.03	0.03			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	.499		.508	mg/L	102	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	.499	U	.513	mg/L	103	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	.499	U	.516	mg/L	103	85	115	1	20	

Iron, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		1.977	mg/L	99	95	105			
WG377894ICB	ICB	01/26/15 17:23			U	mg/L			-0.06	0.06			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	1.0001		1.052	mg/L	105	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	1.0001	.16	1.197	mg/L	105	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	1.0001	.16	1.198	mg/L	105	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
WG378328													
WG378328ICV	ICV	02/03/15 19:13	MS150202-2	.05		.05012	mg/L	100	90	110			
WG378328ICB	ICB	02/03/15 19:15			U	mg/L			-0.0003	0.0003			
WG378328LFB	LFB	02/03/15 19:18	MS150106-2	.05005		.05024	mg/L	100	85	115			
L22522-03AS	AS	02/03/15 19:27	MS150106-2	.05005	.001	.05134	mg/L	101	70	130			
L22522-03ASD	ASD	02/03/15 19:30	MS150106-2	.05005	.001	.05255	mg/L	103	70	130	2	20	

Magnesium, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	100		99.76	mg/L	100	95	105			
WG377894ICB	ICB	01/26/15 17:23			U	mg/L			-0.6	0.6			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	50.00283		50.85	mg/L	102	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	50.00283	8.7	59.32	mg/L	101	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	50.00283	8.7	60.14	mg/L	103	85	115	1	20	

Manganese, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		1.9728	mg/L	99	95	105			
WG377894ICB	ICB	01/26/15 17:23			U	mg/L			-0.015	0.015			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	.501		.5215	mg/L	104	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	.501	.026	.5463	mg/L	104	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	.501	.026	.5472	mg/L	104	85	115	0	20	

FMI Gold & Copper - Sierrita

 ACZ Project ID: **L22522**
pH (lab)
SM4500H+ B

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377979													
WG377979LCSW1	LCSW	01/27/15 17:24	PCN45660	5.99		6	units	100	5.9	6.1			
WG377979LCSW4	LCSW	01/27/15 20:16	PCN45660	5.99		6	units	100	5.9	6.1			
WG377979LCSW7	LCSW	01/27/15 22:52	PCN45660	5.99		6	units	100	5.9	6.1			
L22524-02DUP	DUP	01/28/15 0:10			6.3	6	units				5	20	
WG377979LCSW10	LCSW	01/28/15 1:39	PCN45660	5.99		6	units	100	5.9	6.1			
WG377979LCSW13	LCSW	01/28/15 4:28	PCN45660	5.99		6	units	100	5.9	6.1			

Sulfate
D516-02-07 - Turbidimetric

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377963													
WG377963ICB	ICB	01/27/15 10:33				U	mg/L		-3	3			
WG377963ICV	ICV	01/27/15 10:33	WI150120-3	20		21.4	mg/L	107	90	110			
WG377963LFB	LFB	01/27/15 13:54	WI141006-8	10.01		10.8	mg/L	108	90	110			
L22522-05DUP	DUP	01/27/15 14:29			13.7	13.4	mg/L				2	20	
L22522-06AS	AS	01/27/15 14:29	WI141006-8	10.01	13.8	25.3	mg/L	115	90	110			M1
L22511-01DUP	DUP	01/27/15 14:32			1920	1930	mg/L				1	20	
L22511-02AS	AS	01/27/15 14:32	SO4TURB10X	100	1760	1830	mg/L	70	90	110			M3

Uranium, dissolved
M200.8 ICP-MS

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG378328													
WG378328ICV	ICV	02/03/15 19:13	MS150202-2	.05		.05053	mg/L	101	90	110			
WG378328ICB	ICB	02/03/15 19:15			U	mg/L			-0.0003	0.0003			
WG378328LFB	LFB	02/03/15 19:18	MS150106-2	.05		.05104	mg/L	102	85	115			
L22522-03AS	AS	02/03/15 19:27	MS150106-2	.05	.0028	.05432	mg/L	103	70	130			
L22522-03ASD	ASD	02/03/15 19:30	MS150106-2	.05	.0028	.05598	mg/L	106	70	130	3	20	

Zinc, dissolved
M200.7 ICP

ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG377894													
WG377894ICV	ICV	01/26/15 17:17	II150122-11	2		2	mg/L	100	95	105			
WG377894ICB	ICB	01/26/15 17:23			U	mg/L			-0.03	0.03			
WG377894LFB	LFB	01/26/15 17:36	II150119-3	.5005		.507	mg/L	101	85	115			
L22522-02AS	AS	01/26/15 18:40	II150119-3	.5005	.02	.534	mg/L	103	85	115			
L22522-02ASD	ASD	01/26/15 18:43	II150119-3	.5005	.02	.526	mg/L	101	85	115	2	20	

FMI Gold & Copper - Sierrita

ACZ Project ID: L22522

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L22522-02	WG377963	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.
L22522-03	WG377963	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.
L22522-07	WG377963	Sulfate	D516-02/-07 - Turbidimetric	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5
 Sample ID: 1225

ACZ Sample ID: **L22522-01**
 Date Sampled: 01/19/15 12:15
 Date Received: 01/23/15
 Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

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

Workgroup: **WG377965**

Analyst: pml
 Extract Date: 01/27/15 15:50
 Analysis Date: 01/27/15 15:50

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	10
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	10
Ethylbenzene	100-41-4		U	1	*	ug/L	4	10
m,p Xylene	1330-20-7		U	1	*	ug/L	10	30
o Xylene	95-47-6		U	1	*	ug/L	4	10
Toluene	108-88-3		U	1	*	ug/L	4	10
Total Xylene			U	1	*	ug/L	10	30
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	99.7		1	*	%	70	130
Dibromofluoromethane	1868-53-7	100.4		1	*	%	70	130
Toluene-d8	2037-26-5	97.3		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5
 Sample ID: M-1

ACZ Sample ID: **L22522-04**
 Date Sampled: 01/20/15 14:57
 Date Received: 01/23/15
 Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**

Extract Method: **5030C**

Workgroup: **WG377965**

Analyst: pml

Extract Date: 01/27/15 14:05

Analysis Date: 01/27/15 14:05

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	10
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	10
Ethylbenzene	100-41-4		U	1	*	ug/L	4	10
m,p Xylene	1330-20-7		U	1	*	ug/L	10	30
o Xylene	95-47-6		U	1	*	ug/L	4	10
Toluene	108-88-3		U	1	*	ug/L	4	10
Total Xylene			U	1	*	ug/L	10	30
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	99.8		1	*	%	70	130
Dibromofluoromethane	1868-53-7	100.9		1	*	%	70	130
Toluene-d8	2037-26-5	96.5		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5
 Sample ID: 1759

ACZ Sample ID: **L22522-06**
 Date Sampled: 01/21/15 14:39
 Date Received: 01/23/15
 Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

Analysis Method: **M8260B GC/MS**

Extract Method: **5030C**

Workgroup: **WG377965**

Analyst: pml

Extract Date: 01/27/15 14:57

Analysis Date: 01/27/15 14:57

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		U	1	*	ug/L	4	10
Carbon Disulfide	75-15-0		U	1	*	ug/L	4	10
Ethylbenzene	100-41-4		U	1	*	ug/L	4	10
m,p Xylene	1330-20-7		U	1	*	ug/L	10	30
o Xylene	95-47-6		U	1	*	ug/L	4	10
Toluene	108-88-3		U	1	*	ug/L	4	10
Total Xylene			U	1	*	ug/L	10	30
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	98.9		1	*	%	70	130
Dibromofluoromethane	1868-53-7	99.1		1	*	%	70	130
Toluene-d8	2037-26-5	96.8		1	*	%	70	130

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5
 Sample ID: TB072611-8

ACZ Sample ID: **L22522-08**
 Date Sampled: 07/20/11 14:50
 Date Received: 01/23/15
 Sample Matrix: *Ground Water*

Volatile Organics by GC/MS

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

Workgroup: **WG377965**

Analyst: pml
 Extract Date: 01/27/15 13:39
 Analysis Date: 01/27/15 13:39

Compound	CAS	Result	QUAL	Dilution	XQ	Units	MDL	PQL
Benzene	71-43-2		UH	1	*	ug/L	4	10
Carbon Disulfide	75-15-0		UH	1	*	ug/L	4	10
Ethylbenzene	100-41-4		UH	1	*	ug/L	4	10
m,p Xylene	1330-20-7		UH	1	*	ug/L	10	30
o Xylene	95-47-6		UH	1	*	ug/L	4	10
Toluene	108-88-3		UH	1	*	ug/L	4	10
Total Xylene			UH	1	*	ug/L	10	30
Surrogate Recoveries	CAS	% Recovery		Dilution	XQ	Units	LCL	UCL
Bromofluorobenzene	460-00-4	100.9		1	*	%	70	130
Dibromofluoromethane	1868-53-7	100.7		1	*	%	70	130
Toluene-d8	2037-26-5	96.8		1	*	%	70	130

Arizona license number: AZ0102



Laboratories, Inc.

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

**Organic
Reference**

Report Header Explanations

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

QC Sample Types

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

FMI Gold & Copper - Sierrita
ACZ Project ID: L22522
Volatile Organics by GC/MS

M8260B GC/MS

WG377965

AS	Sample ID: L22522-04AS			PCN/SCN: V150116-1-SPIK				Analyzed:		01/27/15 14:31	
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	97.3	U	117.5	ug/L	121.0	70	130				M1
CARBON DISULFIDE	97.7	U	132.4	ug/L	136.0	70	130				
ETHYLBENZENE	97.3	U	111.1	ug/L	114.0	70	130				
M P XYLENE	194.4	U	219	ug/L	113.0	70	130				
O XYLENE	99.6	U	108	ug/L	108.0	70	130				
TOLUENE	97.5	U	111.7	ug/L	115.0	70	130				
BROMOFLUOROBENZENE (surr)			%		100.0	70	130				
DIBROMOFLUOROMETHANE (surr)			%		101.4	70	130				
TOLUENE-D8 (surr)			%		97.0	70	130				

DUP	Sample ID: L22522-06DUP			PCN/SCN: V150116-1-SPIK				Analyzed:		01/27/15 15:23	
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE		U	U	ug/L				0	20	RA	
CARBON DISULFIDE		U	U	ug/L				0	20	RA	
ETHYLBENZENE		U	U	ug/L				0	20	RA	
M P XYLENE		U	U	ug/L				0	20	RA	
O XYLENE		U	U	ug/L				0	20	RA	
TOLUENE		U	U	ug/L				0	20	RA	
BROMOFLUOROBENZENE (surr)			%		99.0	70	130				
DIBROMOFLUOROMETHANE (surr)			%		100.4	70	130				
TOLUENE-D8 (surr)			%		97.7	70	130				

LCSW	Sample ID: WG377965LCSW			PCN/SCN: V150116-1-CCV/				Analyzed:		01/27/15 11:20	
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	99.1		102.5	ug/L	103.0	70	130				
CARBON DISULFIDE	99.5		110.9	ug/L	112.0	70	130				
ETHYLBENZENE	99.1		98.3	ug/L	99.0	70	130				
M P XYLENE	198		195	ug/L	99.0	70	130				
O XYLENE	101.5		97	ug/L	96.0	70	130				
TOLUENE	99.3		98.9	ug/L	100.0	70	130				
BROMOFLUOROBENZENE (surr)			%		100.4	70	130				
DIBROMOFLUOROMETHANE (surr)			%		101.6	70	130				
TOLUENE-D8 (surr)			%		98.5	70	130				

LCSWD	Sample ID: WG377965LCSWD			PCN/SCN: V150116-1-CCV/				Analyzed:		01/27/15 11:46	
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual	
BENZENE	99.1		105.4	ug/L	106.0	70	130	3	20		
CARBON DISULFIDE	99.5		115.1	ug/L	116.0	70	130	4	20		
ETHYLBENZENE	99.1		100.7	ug/L	102.0	70	130	2	20		
M P XYLENE	198		198	ug/L	100.0	70	130	2	20		
O XYLENE	101.5		98.7	ug/L	97.0	70	130	2	20		
TOLUENE	99.3		100.3	ug/L	101.0	70	130	1	20		
BROMOFLUOROBENZENE (surr)			%		99.9	70	130				
DIBROMOFLUOROMETHANE (surr)			%		101.0	70	130				

FMI Gold & Copper - SierritaACZ Project ID: **L22522**

TOLUENE-D8 (surr)

% 96.6 70 130

PBW	Sample ID: WG377965PBW						Analyzed:	01/27/15 12:12		
Compound	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
BENZENE			U	ug/L		-10	10			
CARBON DISULFIDE			U	ug/L		-10	10			
ETHYLBENZENE			U	ug/L		-10	10			
M P XYLENE			U	ug/L		-30	30			
O XYLENE			U	ug/L		-10	10			
TOLUENE			U	ug/L		-10	10			
BROMOFLUOROBENZENE (surr)			%		99.6	70	130			
DIBROMOFLUOROMETHANE (surr)			%		99.6	70	130			
TOLUENE-D8 (surr)			%		97.0	70	130			

FMI Gold & Copper - Sierrita

ACZ Project ID: L22522

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L22522-01	WG377965	*All Compounds*	M8260B GC/MS	Q3	Sample received with improper or 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).
			Carbon Disulfide	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L22522-04	WG377965	*All Compounds*	M8260B GC/MS	Q3	Sample received with improper or 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).
			Carbon Disulfide	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
L22522-06	WG377965	*All Compounds*	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).
			Carbon Disulfide	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M8260B GC/MS	H3	Sample was received and analyzed past holding time.
L22522-08	WG377965	*All Compounds*	M8260B GC/MS	Q2	Sample received with head space.
			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).
			M8260B GC/MS	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			Carbon Disulfide	M8260B GC/MS	

FMI Gold & Copper - Sierrita

ACZ Project ID: L22522

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L22522
 Date Received: 01/23/2015 09:33
 Received By: ddp
 Date Printed: 1/23/2015

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

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

YES	NO	NA
X		
X		
X		
X		
X		
		X
X		
X		
		X
X		
		X
	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?
4025	1	12	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.



Laboratories, Inc.

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

C22522
CHAIN of CUSTODY

Report to:

Name: Jon Anderson
Company: Freeport-McMoRan Sierrita Inc.
E-mail: jonathan_anderson@fmi.com

Address: 6200 W. Duval Mine Road
Green Valley, AZ 85614
Telephone: 520-393-2714

Copy of Report to:

Name: Sarina Martinez
Company: Freeport-McMoRan Sierrita Inc.

E-mail: sarina_martinez@fmi.com
Telephone: 520-393-2592

Invoice to:

Name:
Company:
E-mail:

Address:
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

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

PROJECT INFORMATION

ANALYSES REQUESTED (attach list or use quote number)

Quote #:											
Project/PO #: ZS000005L5											
Reporting state for compliance testing:											
Sampler's Name: Jeff Joy											
Are any samples NRC licensable material? Yes No											
SAMPLE IDENTIFICATION	DATE:TIME	Matrix	# of Containers	TB-Annual	TB-ANN-ORG	Dissolved Uranium					
1225	1/19/15 : 1215	GW	7	x	x						
M-10	1/19/15 : 1446	GW	4	x		x					
M-9	1/20/15 : 1011	GW	4	x		x					
M-1	1/20/15 : 1457	GW	7		x	x					
M-11	1/21/15 : 1303	GW	4	x		x					
1759	1/21/15 : 1439	GW	7		x	x					
DUP20150119A	1/19/15 : 0000	GW	4	x		x					
TB072611-8	7/20/11 : 1450	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

Twin Buttes Post Closure Monitoring (Biennial)

M-9 and M-10: Copy of report to Ben Daigneau contains only "SO4" results with QC Summary

bdaigneau@clearcreekassociates.com

UPS Tracking # 1Z 867 7E4 23 1001 145 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	1/22/15 : 1530	LPC	1-23-15 0933

January 30, 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: ZS000005L5

ACZ Project ID: L22523

Jon Anderson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on January 23, 2015. This project has been assigned to ACZ's project number, L22523. 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 L22523. 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 March 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.

Scott Habermehl has reviewed
and approved this report.



FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-3B

ACZ Sample ID: **L22523-01**

Date Sampled: 01/21/15 09:17

Date Received: 01/23/15

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	01/28/15 16:39	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: MO-2007-3C

ACZ Sample ID: **L22523-02**

Date Sampled: 01/21/15 10:27

Date Received: 01/23/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	68.5			mg/L	1	5	01/28/15 16:57	tcd

Arizona license number: AZ0102

FMI Gold & Copper - Sierrita

Project ID: ZS000005L5

Sample ID: DUP20150121A

ACZ Sample ID: **L22523-03**

Date Sampled: 01/21/15 00:00

Date Received: 01/23/15

Sample Matrix: *Ground Water*

Wet Chemistry

Parameter	EPA Method	Dilution	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Sulfate	M300.0 - Ion Chromatography	2	70.3			mg/L	1	5	01/29/15 14:49	tcd

Arizona license number: AZ0102

Report Header Explanations

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

QC Sample Types

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

QC Sample Type Explanations

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

ACZ Qualifiers (Qual)

<i>B</i>	Analyte concentration detected at a value between MDL and PQL. The associated value is an estimated quantity.
<i>H</i>	Analysis exceeded method hold time. pH is a field test with an immediate hold time.
<i>L</i>	Target analyte response was below the laboratory defined negative threshold.
<i>U</i>	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 - SierritaACZ Project ID: **L22523**

Sulfate M300.0 - Ion Chromatography													
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG375125													
WG375125ICV	ICV	11/21/14 15:25	WI141119-3	50.05		49.7	mg/L	99	90	110			
WG375125ICB	ICB	11/21/14 15:43				U	mg/L		-1.5	1.5			
WG378001													
L22523-02DUP	DUP	01/28/15 17:15			68.5	68.7	mg/L				0	20	
WG378001LFB	LFB	01/29/15 12:43	WI141002-6	30		29.8	mg/L	99	90	110			
L22437-01DUP	DUP	01/29/15 13:19			U	U	mg/L				0	20	
L22456-01AS	AS	01/29/15 13:55	WI141002-6	15000	U	14700	mg/L	98	90	110			
L22523-03AS	AS	01/29/15 15:06	WI141002-6	60	70.3	129	mg/L	98	90	110			

FMI Gold & Copper - Sierrita

ACZ Project ID: L22523

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L22523-01	WG378001	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).

FMI Gold & Copper - Sierrita

ACZ Project ID: L22523

No certification qualifiers associated with this analysis

FMI Gold & Copper - Sierrita
 ZS000005L5

ACZ Project ID: L22523
 Date Received: 01/23/2015 09:33
 Received By: ddp
 Date Printed: 1/23/2015

Receipt Verification

- 1) Is a foreign soil permit included for applicable samples? X
- 2) Is the Chain of Custody or other directive shipping papers present?
- 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?
- 6) Is the Chain of Custody complete and accurate?
- 7) Were any changes made to the Chain of Custody prior to ACZ receiving the samples?

YES	NO	NA
		X
X		
		X
		X
X		
X		
	X	

Samples/Containers

- 8) Are all containers intact and with no leaks?
- 9) Are all labels on containers and are they intact and legible?
- 10) Do the sample labels and Chain of Custody match for Sample ID, Date, and Time?
- 11) For preserved bottle types, was the pH checked and within limits? X
- 12) Is there sufficient sample volume to perform all requested work?
- 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?
- 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?

YES	NO	NA
X		
X		
X		
		X
X		
		X
		X
X		
		X
		X
		X
X		

Chain of Custody Related Remarks

Client Contact Remarks

Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/Hr)	Custody Seal Intact?
4025	1	12	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.

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

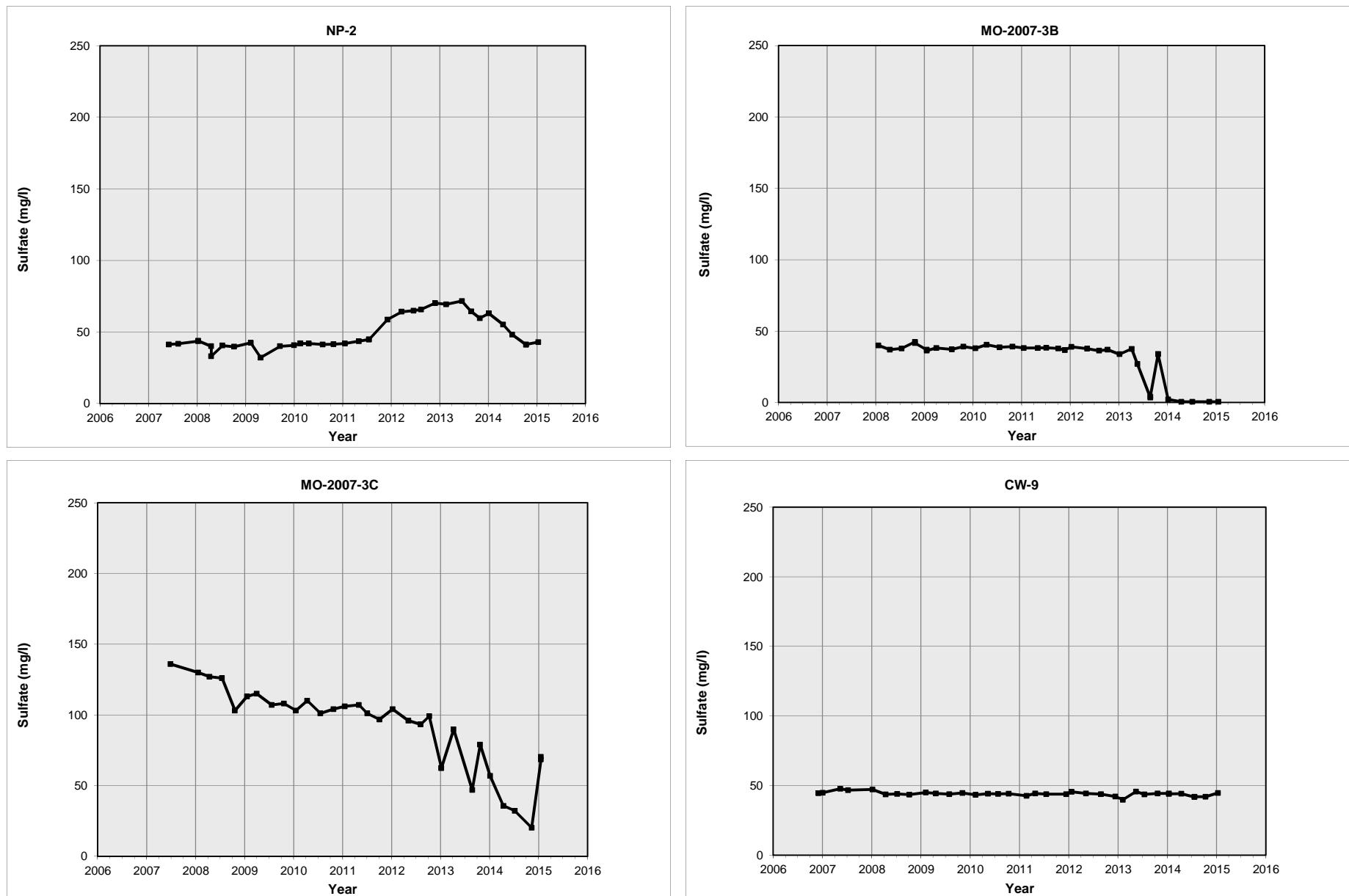


FIGURE C.2
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-4A, MO-2007-4B, MO-2007-4C, AND CW-6

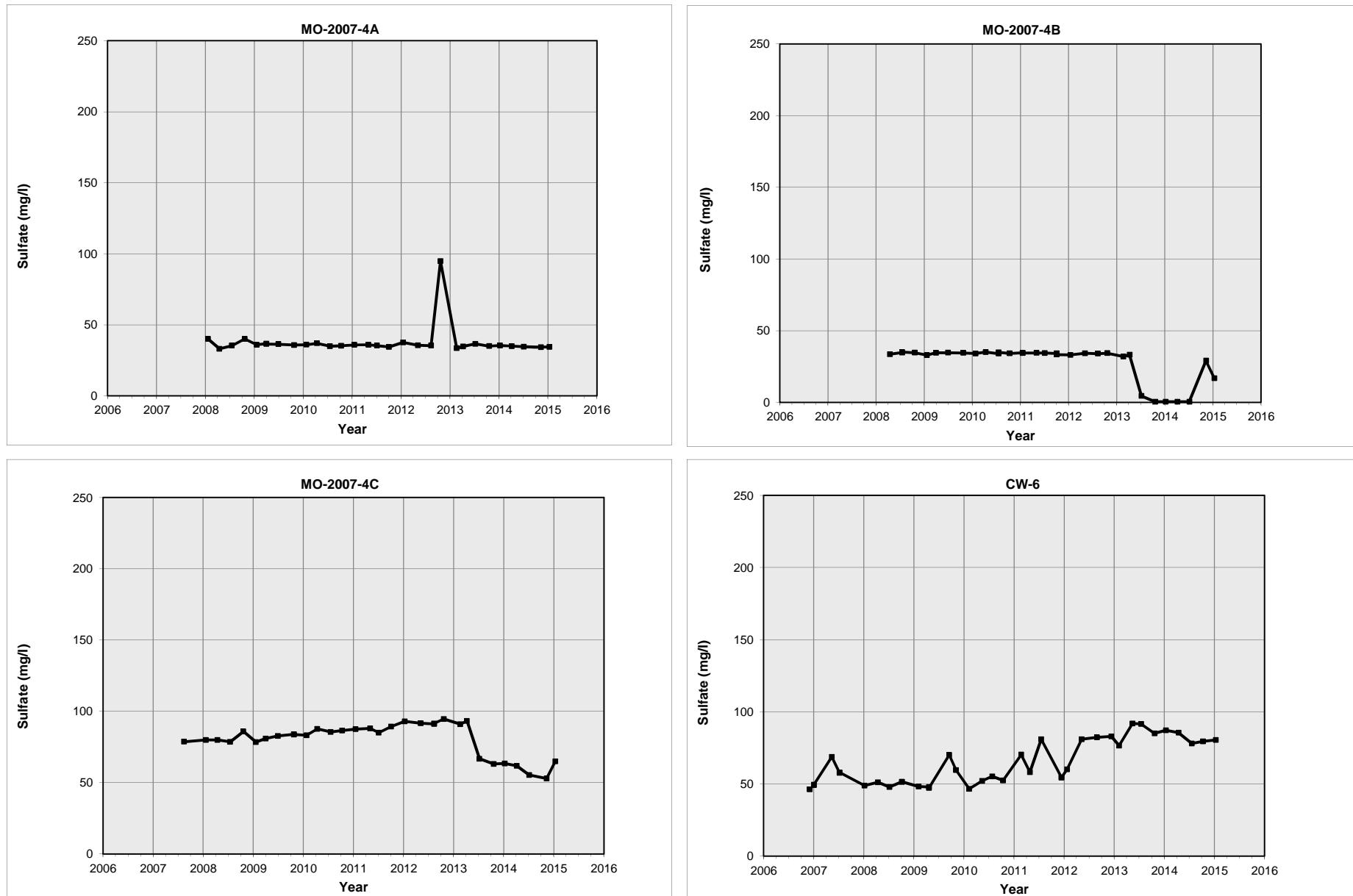


FIGURE C.3
SULFATE CONCENTRATION OVER TIME FOR WELLS MO-2009-1 AND CW-10

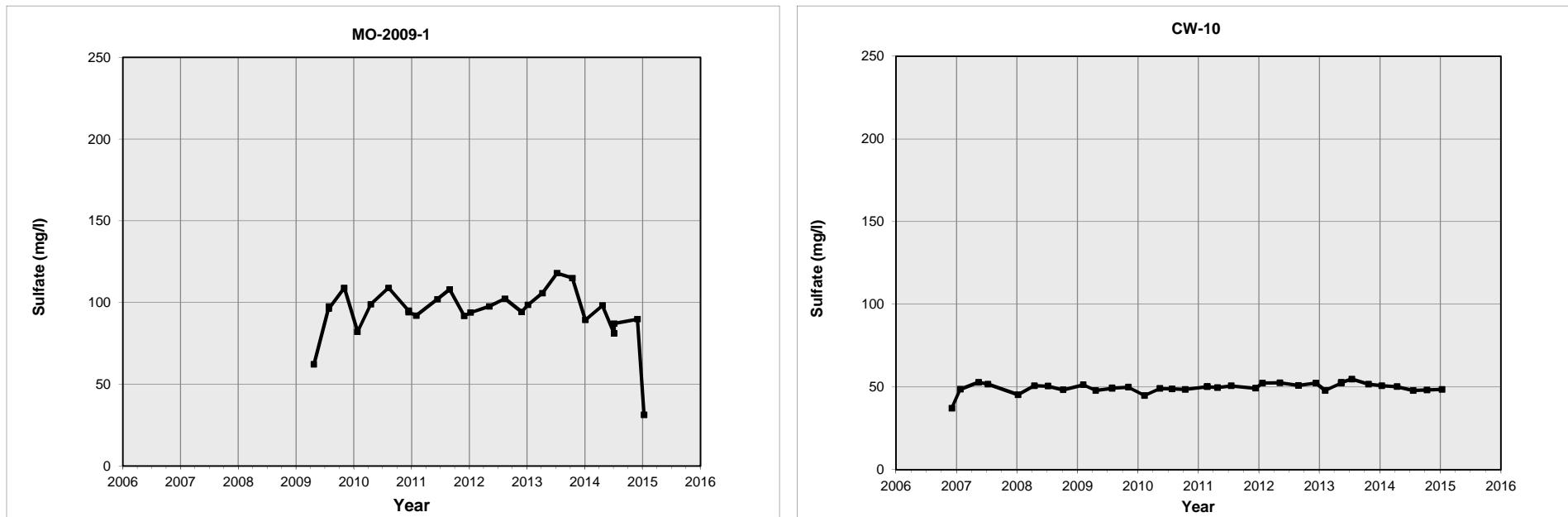


FIGURE C.4
SULFATE CONCENTRATION OVER TIME FOR WELLS
GV-01-GVDWID, GV-02-GVDWID, MO-2007-6A, AND MO-2007-6B

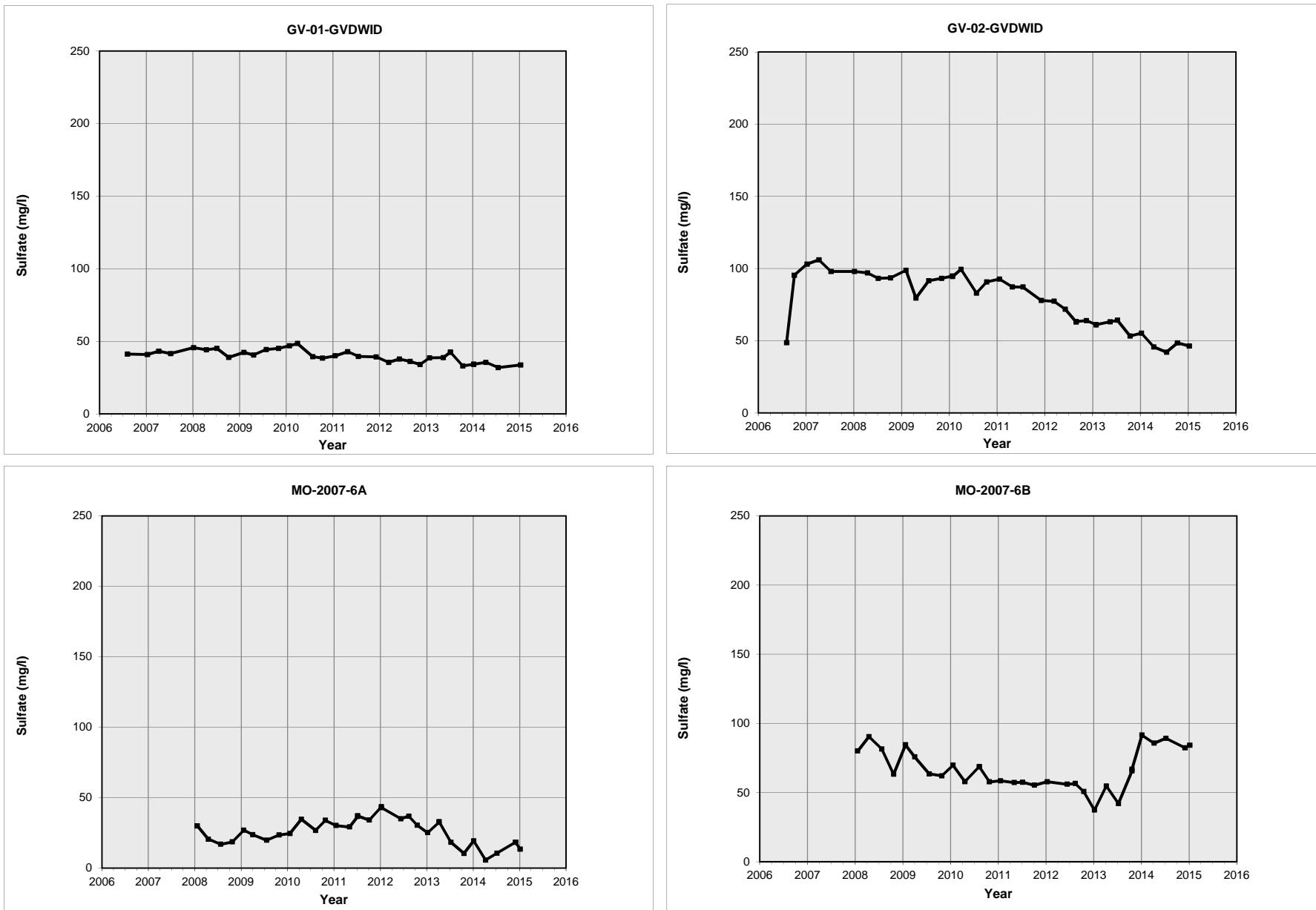


FIGURE C.5
SULFATE CONCENTRATION OVER TIME FOR WELLS
MO-2007-1A, MO-2007-1B, AND MO-2007-1C

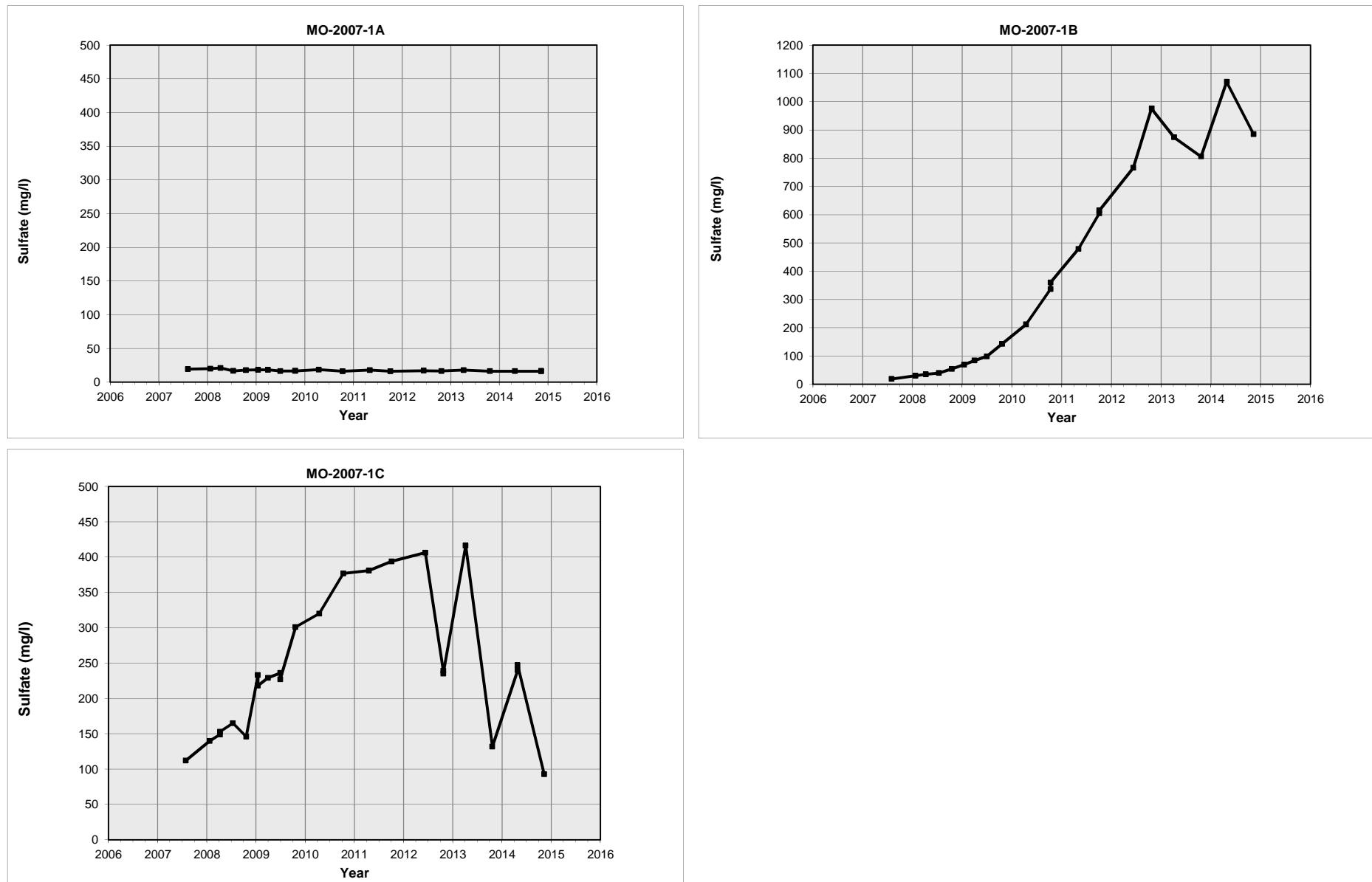
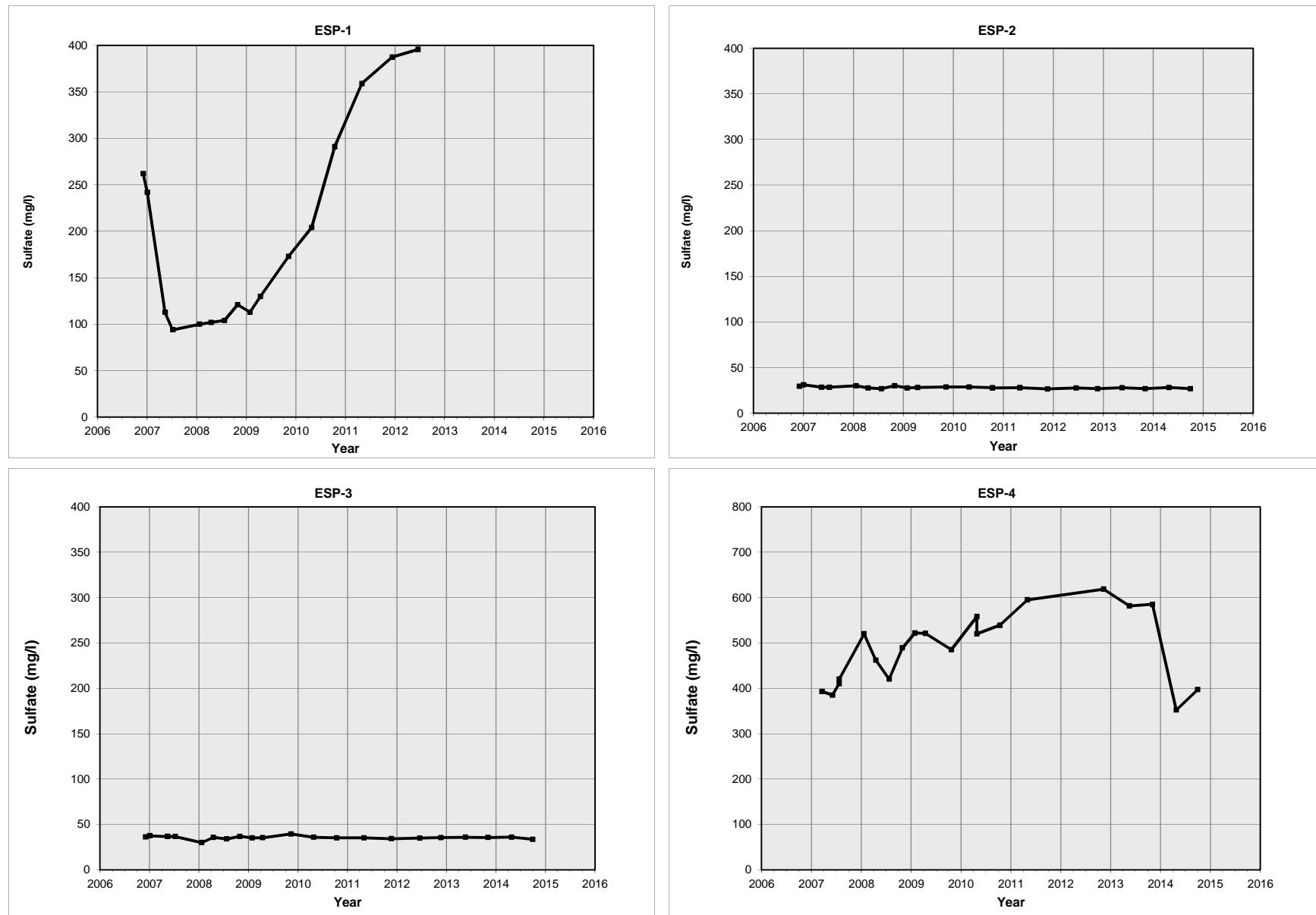


FIGURE C.6
SULFATE CONCENTRATION OVER TIME FOR WELLS
ESP-1, ESP-2, ESP-3, AND ESP-4



APPENDIX D

TIME SERIES GRAPHS OF GROUNDWATER ELEVATION

