AGZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493			impl: iecip	
helps Dodge Sierrita OJ03DL		-		L63014 6/5/2007
Receipt Verification	Dater	-nntea:		6/5/2007
recall valueaton		YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?				
<ul><li>2) Are the custody seals on the cooler intact?</li></ul>		X		
<ol><li>Are the custody seals on the sample containers intact?</li></ol>				X
4) Is there a Chain of Custody or other directive shipping papers present?		X		
5) Is the Chain of Custody complete?		Х		1
6) Is the Chain of Custody in agreement with the samples received?		Х		
7) is there enough sample for all requested analyses?		X		
8) Are all samples within holding times for requested analyses?		Х		
9) Were all sample containers received intact?		Х		
10) Are the temperature blanks present?				X
11) Are the trip blanks (VOA and/or Cyanide) present?				X
12) Are samples requiring no headspace, headspace free?				X
13) Do the samples that require a Foreign Soils Permit have one?				X

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

N/A

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

N/A

## Singong Containers

Cooler Id		Temp (°C)	Rad (µR/hr)
1982		4.9	17
	-		

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

REPAD.03.11.00.01

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

#### Phelps Dodge Sierrita OJ03DL



ACZ Project ID: L63014 Date Received: 6/5/2007 Received By:

Sample Container Preservation

SAMPLE CL	IENT ID	R < 2	G < 2	BK < 2	Y< 2	YG<2	B< 2	0<2	T >12	N/A	RAD	ID
.63014-01 ES	P-4							1		X	1	
Samoletten	lainer Preservation Loge	ad										
bbreviation	Description	Contai	ner Typ	e Pre	servat	ive/Lim	its	an a				umenangangangangangangangangangangangangang
2	Raw/Nitric	RED		pН	must be	< 2						
3	Filtered/Sulfuric	BLUE		pН	must be	< 2						
зк	Filtered/Nitric	BLACK		pН	must be	< 2						
÷	Filtered/Nitric	GREEN		рH	must be	< 2						
)	Raw/Sulfuric	ORANG	ΞE	pН	must be	< 2						
)	Raw/NaOH	PURPLE	±	pН	must be	> 12 *						
	Raw/NaOH Zinc Acetate	TAN		рH	must be	> 12						
/	Raw/Sulfuric	YELLO	W	pН	must be	< 2						
′G	Raw/Sulfuric	YELLO	W GLAS	S pH	must be	< 2						
J/A	No preservative needed	Not app	licable									
RAD	Gamma/Beta dose rate	Not app	licable	mu	st be < 2	250 µR/h	r					

\* pH check performed by analyst prior to sample preparation

ample IDs Reviewed By:

ame:       3:11       Dorris       Address:       6200 (Jest + Duval Mine 2J)         ame:       Green Valley AZ #5614       Telephone:       520 645 \$\$73         ame:       Jim @ Address:       6700 fborto:       6700 fborto:         ame:       Jim @ Address:       6700 fborto:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       780 fborto:         ame:       Jim @ Address:       NO       1000 fborto:         address:       Jim @ Address:       NO       1000 fborto:         amota fborto:       Jim @ Address:       <	ADDINAL CANDONNOLOGIA INTRACIONALIZZ			$\underline{\mathcal{N}}$	$\mathcal{N}$				
772 Develoaliti Daver, Steamboat Springe, CO. 90487 (980) 334-5493         opport 01         ame: [3:1] Dorris         ama: [3:1] Dorris         ampleta         ama: [3:1] Dorris         ampleta         ampleta         ampleta         ampleta         ampleta         ampleta         ampleta         ampleta         protocol with the requested analyses, even if HT is expired, and data will be quelified.         ROJECT INFORMATIO	AGZ Labor	atories, Inc.					CH4	NN of	CUSTOR
ame:       3:11       Dorris       Address:       6200 (Jest + Duval Mine 2J)         ame:       Green Valley AZ #5614       Telephone:       520 645 \$\$73         ame:       Jim @ Address:       6700 fborto:       6700 fborto:         ame:       Jim @ Address:       6700 fborto:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       6700 fborto:         ame:       Jim @ Address:       Jim @ Address:       780 fborto:         ame:       Jim @ Address:       NO       1000 fborto:         address:       Jim @ Address:       NO       1000 fborto:         amota fborto:       Jim @ Address:       <			<b>19</b> 3						
ampany:       Preen Valley Az #5614         -mail:       Billy - Dorois@ Fm E.com         ame:       Image:         amage:       Ima	Report to:								
ampany:       Preen Valley Az #5614         -mail:       Billy - Dorois@ Fm E.com         ame:       Image:         amage:       Ima	lame: Bill Darris		A	ddress:	10Z00 1	ups +	Dur	al mi	no Qd
Imail:       Dorris@Emt.com       Telephone: 520.648 8873         opy of Report to:       Imail:       Jimm@hgCinC.com         ame::       Jimm@hgCinC.com       Itelephone: 520.243 1500 0.xx4 113         iompany:       Hydro.Geo.Chom       Itelephone: 520.243 1500 0.xx4 113         iompany:       Itelephone: 520.243 1500 0.xx4 113         iompany:       Itelephone: 520.243 1500 0.xx4 113         iompany:       Itelephone:       Itelephone:         imme:       Itelephone:       VIII         iompany:       Itelephone:       VIIII         inflated.Ad2 proceed with requested analyses;       VIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII		Siercita							
ame:       Sim Norris         iame:       Sim Norris         iompany:       Hydro Geo. Chem         talephone:       520.293.1500.5x4.112         voice to:       Iame:         iompany:       Address:         imme:       Imme:         iompany:       Imme:         isample(a) rockived past holding time (HT), or If insufficient HT remains to complete       VEB         indicated. AC2 will contact client for further instruction. If neuther "VES" nor "NO"       NO         indicated. AC2 will contact client for further instruction. If neuther "VES" nor "NO"       NO         indicated. AC2 will contact client for further instruction. If neuther "VES" nor "NO"       NO         indicate for compliance testing:       graphers       NO         indicate for compliance testing:       graphers       So Fa-4e       L         SAMPLE DENTIFICATION       DA						•			· /
ame:       Sim Nortis         ompany:       Hydro Geo Chem         Telephone:       520 293 1500 £x4 113         worde to:       Address:         ame:					ic. <u>520</u>	010		·	- 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000
iompany:       Hydro Grea ( hew )         Interphone:       520 293 1500 Ext 113         intermative       Address:         intermative       Interphone:         intermative       Address:         intermative       Interphone:         intermative       YES         intermative       No         intermative       YES         intermative       YES         intermative       No         intermative       YES         intermative       No         intermative       YES         intermative       No         intermative       YES         intermative       No         intermative       YES         intermative       YES         intermative       YES         intermative       No         interphone:       YES         interphone:       YES         interphone:       YES         interphone:       YES         intermative       YES         intermative       YES         intermative       YES         intermative       YES         intermative       YES         intermative	and the second secon				e 4		. 1		و و د دولوه و ۲۰ وی وی وی وی وی وی وی
Invoice to:       Address:         imme:									
ame:	ompany: Hydro Geo	Chem	T	elephon	ie: 520	293	150	0 Ex	4 112
ompany:	ivoice to:					141 di 191 di 197			
ompany:	ame:		A	ddress:					,
mail:       Telephone:         sample(s) received past holding time (HT), or If insufficient HT remains to complete narysis before expiration, shall ACZ proceed with requested short HT analyses?       NO         "MO" then ACZ will proceed with the requested analyses, even If HT is expired, and data will be qualified.       RCJECT INFORMATION         ROJECT INFORMATION       ANALYSES REQUESTED (attract list or use quote namino the properties) and the properties of the compliance testing:       graph         ampler's Name:       graph       graph       graph         re any samples NRC licensable material?       graph       graph         SAMPLE IDENTIFICATION       DATESTIME       Matrix       SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soil) - OL (Ol) - Other (Specify)         EMARKS       Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
sample(s) received past holding time (HT), or if insufficient HT remains to complete       YES       NO         nalysis before expiration, shall ACZ proceed with requested short HT analyses?       NO       NO         "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO"       Image: State for compliance testing:       NO         indicated, ACZ will proceed with the requested analyses, even (HT is expired, and data will be qualified.       ANALYSES REQUESTED (attach list or use quote numinic testing:         nucle #:       roject/PO #: O J o 3 D L       grage       grage       Image: State for compliance testing:         ampler's Name:       grage       grage       Image: State for compliance testing:       grage       Image: State for compliance testing:         ampler's Name:       grage       grage       Image: State for compliance testing:       grade       Image: State for compliance testing:			L L	elenhon	e:				
nalysis before expiration, shall ACZ proceed with requested short HT analyses?       NO         "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO"		time (HT), or if insufficient F						YE	s
Indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified.         ROJECT INFORMATION       ANALYSES REQUESTED (attach list or use quote number indet #:         roject/PO #:       0 5 o 3 D L         eporting state for compliance testing:       generation         ampler's Name:       generation         re any samples NRC licensable material?       generation         SAMPLE IDENTIFICATION       DATE:TIME         Matrix       Support (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Skidge) - SO (Soil) - OL (OII) - Other (Specify)         Matrix       SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Skidge) - SO (Soil) - OL (OII) - Other (Specify)         EMARKS       Please refer to ACZ's terms & conditions located on the reverse side of this COC.		• •			-				······································
ROJECT INFORMATION       ANALYSES REQUESTED (attach list or use quote number protect/PO #: O J o 3 D L         eporting state for compliance testing:       get         ampler's Name:       get         re any samples NRC licensable material?       get         SAMPLE IDENTIFICATION       DATE:TIME         Matrix       E Sp - 4         6-4-07 / 11:00       Gwl         Matrix       SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SL (Sludge) - SO (Soli) - OL (Oil) - Other (Specify)         EMARKS       Please refer to ACZ's terms & conditions located on the reverse side of this COC.	"NO" then ACZ will contact clier	t for further instruction. If n	either "Y	ES" nor	"NO"				
uote #:       roject/PO #: 0 5 6 3 D L         eporting state for compliance testing:       ampler's Name:         re any samples NRC licensable material?       Sample's Name:         SAMPLE IDENTIFICATION       DATE:TIME       Matrix         ESp - 4       6-4-07 / 11:00       Gw 1       -> Sv Fa-te       by Te         Matrix       Sw (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drmking Water) - SL (Sludge) - SC (Soli) - OL (Oli) - Other (Specify)         Matrix       Sw (Surface water) - GW (Ground Water) - WW (Waste Water) - DW (Drmking Water) - SL (Sludge) - SC (Soli) - OL (Oli) - Other (Specify)         EMARKS       Please refer to ACZ's terms & conditions located on the reverse side of this COC.		the requested analyses, even	en if HT is		and the second			and the second	an and the second s
roject/PO #: O J O 3 D L.       eporting state for compliance testing:         ample/'s Name:       e any samples NRC licensable material?         re any samples NRC licensable material?       Matrix         SAMPLE IDENTIFICATION       DATE:TIME         Matrix       ESp - 4         6-4-07 / 11:00       Gwl         Gwl	ROJECT INFORMATION		<u> </u>	ANALY	SES REQU	JESTIED	attach	list or use (	quote number)
e any samples internation       DATE:TIME       Matrix       Image: Constraint of the second secon	uote #:			s					
The any samples induction induction in the induction induction in the induction induction in the induction in t	roject/PO#: 0 <u>Jo3DL</u>			ner					
The any samples have not	eporting state for compliance to	esting:		ntai					
The any samples NRC Incertagine that end is a second transmission of the second transm	ampler's Name:			ပိ					
Esp-4       6-4-07 / 11:00       6w       -       Sv       Farte       by       I.         Image: Sp-4       6-4-07 / 11:00       6w       -       -       Sv       Farte       by       I.         Image: Sp-4       6-4-07 / 11:00       6w       -       -       Sv       Farte       by       I.         Image: Sp-4       6-4-07 / 11:00       6w       -	re any samples NRC licensable	e material?		ţ					
Matrix SW (Surface Water) - GW (Ground Water) - WW (Waste Water) - DW (Drinking Water) - SC (Soil) - OL (OII) - Other (Specify) EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.	SAMPLE IDENTIFICATION	DATETIME	Matrix						
Image: Structure of this COC.	E50-4	6-4-07/11:00	GW	1	-> 50	Fate	· 64	I4	
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.		<u> </u>							
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
EMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC.									
Please refer to ACZ's terms & conditions located on the reverse side of this COC.		<u> </u>	<u> </u>			. L			
	Matrix SW (Surface Water) · GW (	Ground Water) · WW (Waste Wate	ər) · DW (Dr	rinking Wa	ter) · SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
		Ground Water) · WW (Waste Wate	ər) · DW (Dr	inking Wa	ter) · SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
		Ground Water) · WW (Waste Wate	ər) · DW (Dr	inking Wa	ter) - SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
		Ground Water) · WW (Waste Wate	ər) - DW (Dr	rinking Wa	ter) · SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
		Ground Water) · WW (Waste Wate	ar) - DW (Dr	inking Wa	ter) · SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
		Ground Water) · WW (Waste Wate	i ar) - DW (Dr	inking Wa	ter) · SL (Slu	ige) · SO (	Soil) · OL	(Oil) · Other	(Specify)
	EMARKS								(Specify)
	EMARKS Please re	efer to ACZ's terms & condi	itions loca		the revers	e side o	f this C		
6318 7. Donin 6-4-07/15:00 V.N.S. 6-5.0	EMARKS	efer to ACZ's terms & condi	itions loca		the revers	e side o	f this C		(Specify) DATE:TIME
11:2	EMARKS Please re	efer to ACZ's terms & condi DATE:TIM	itions loca		the revers	e side o	f this C		
	EMARKS Please re	efer to ACZ's terms & condi DATE:TIM	itions loca		the revers	e side o	f this C		

**AGZ Laboratories**, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493 Analytical Report

June 13, 2007

Bill Dorris Phelps Dodge Sierrita P.O. Box 527 6200 West Duval Mine Road Green Valley, AZ 85622-0527

Cc: Kim Garcia

Project ID: OJ03DL ACZ Project ID: L61970 - SHORT

Bill Dorris:

Enclosed are analytical reports for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 12, 2007.

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, version 11.0. The enclosed results relate only to the samples received under L61970. 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 the requirements of NELAC.

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

ACZ disposes of samples and sub-samples thirty days after the analytical results are reported to the client. That time frame has elapsed for this project. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years. Please notify your Project Manager if you have other needs. If you have any questions, please contact your Project Manager or Customer Service Representative.

13/Jun/07

Scott Habermehl, Project Manager, has reviewed and approved this report in its entirety.





REPAD.01.11.00.01

	<b>Laboratories, Inc.</b> ve Steamboat Springs, CO 80487(800) 334-5493	Iner	ganic Analytical Results
Phelps Dodge Project ID: Sample ID:	Sierrita OJ03DL EQB041007A	ACZ Sample ID: Date Sampled: Date Received: Sample Matrix:	
Wet Chemistry			

Parameter	EPA Method	Result	Qual	XO	Units	MOL	POL	Date	Analyst
Sulfate	SM4500 SO4-D		U	*	mg/L	10	.50	04/13/07 13:32	aeh/wpa

Arizona license number: AZ0102

	<b>Laboratories, Inc.</b> ve Steamboat Springs, CO 80487(800) 334-5493	Inor	janic Analytical Results
Phelps Dodge Project ID:	Sierrita OJ03DL	ACZ Sample ID: Date Sampled:	
5	TB041007A	Date Gampled: Date Received: Sample Matrix:	04/12/07

Wet Chemistry								
Parameter	EPA Method	Result Qual	XQ	Units	MDL	POL	Date A	well/si
Sulfate	SM4500 SO4-D	U	*	mg/L	10	50	04/13/07 13:36 a	ieh/wpa

Arizona license number: AZ0102



 Laboratories, Inc.

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

# Inorganic Reference

Report Header	Explanations		
Batch	A distinct set of samples analyzed at a specific time		
Found	Value of the QC Type of interest		
Limit	Upper limit for RPD, in %.		
Lower	Lower Recovery Limit, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Limit. Same as Minimum Reporting Lin	nit. Allows for i	instrument and annual fluctuations.
PCN/SCN	A number assigned to reagents/standards to trace to the r		
PQL	Practical Quantitation Limit, typically 5 times the MDL.		
QC	True Value of the Control Sample or the amount added to	the Spike	
Rec	Amount of the true value or spike added recovered, in % (		SS. ma/Ka)
RPD	Relative Percent Difference, calculation used for Duplicate		
Upper	Upper Recovery Limit, in % (except for LCSS, mg/Kg)	J	
Sample	Value of the Sample of interest		
Q9 Sample Ty	rpes		
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 Calivation 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
OC Sample Ty	pe Explanations		
Blanks		ial contaminatio	on in the prep method or calibration procedure.
Control Sa			
Duplicates	-	-	
Spikes/For	tified Matrix Determines sample matrix interf	erences, if any	·
Standard	Verifies the validity of the calibra	ation.	
ACZ Qualifiers	: (Orral)		
B	Analyte concentration detected at a value between MDL a		
H	Analysis exceeded method hold time. pH is a field test wi		e hold time
U	Analyte was analyzed for but not detected at the indicated		e noid aine.
-			
Maribadi Rabera	TROPS		
(1)	EPA 600/4-83-020. Methods for Chemical Analysis of Wa	ter and Waste	s. March 1983.
(2)	EPA 600/R-93-100. Methods for the Determination of Ino		
(3)	EPA 600/R-94-111. Methods for the Determination of Me	-	
(5)	EPA SW-846. Test Methods for Evaluating Solid Waste,		
(6)	Standard Methods for the Examination of Water and Wast		• •
Comments			· · · · ·
	OC requiring apply lated from any data. Provide use	an haile a la a h	
(1)	QC results calculated from raw data. Results may vary si		
(2)	Soil, Sludge, and Plant matrices for Inorganic analyses an		
(3)	Animal matrices for Inorganic analyses are reported on an	as received"	Dasis.

REPIN03.02.07.01

A ConstantConstantConstant2773 Downhill DriveSteamboat Springs, CO 80487(800) 334-5493

# Intongantic Extended Qualifier Report

## **helps Dodge Sierrita**

Act/200	. WORKSHIM	PARAMETER	METHOD	(e)PAL	DESCRIPTION
L61970-01	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-02	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-03	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
:	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-04	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

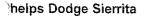
2004) **20**03 A LineLaboratories, Inc.2773 Downhill DriveSteamboat Springs, CO 80487 (800) 334-5493

# Inorganic Extended Qualifier Report

#### helps Dodge Sierrita

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L61970-05	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223467	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-06	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223467	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
arta A	WG223038	Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	ZO	TDS concentration is based on a final residue greater than 200 ma.
er al la companya da la companya da La companya da la comp	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-07	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).





Certification Qualifiers

ACZ Project ID: L61970

No certification qualifiers associated with this analysis

AGZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493	Sample Receipt					
helps Dodge Sierrita		•		L61970 /12/2007		
Receipt Verification	Dater	-nnteu.	4/	12/2007		
The structure of the state of t		YES	NO	NA		
1) Does this project require special handling procedures such as CLP protocol?						
2) Are the custody seals on the cooler intact?		X				
3) Are the custody seals on the sample containers intact?				X		
4) Is there a Chain of Custody or other directive shipping papers present?		X				
5) Is the Chain of Custody complete?		Х				
6) Is the Chain of Custody in agreement with the samples received?		Х	· · · · · · · · · · · · · · · · · · ·			
7) Is there enough sample for all requested analyses?		X				
8) Are all samples within holding times for requested analyses?		Х				
9) Were all sample containers received intact?		Х				
10) Are the temperature blanks present?				X		
11) Are the trip blanks (VOA and/or Cyanide) present?		Х				
12) Are samples requiring no headspace, headspace free?		X	a ka su an			
13) Do the samples that require a Foreign Soils Permit have one?				X		

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

N/A

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

N/A

## Shipping Containers

Cooler Id	Temp (°C)	Rad (µR/hr)
1534	5.9	15
		L

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

REPAD.03.11.00.01

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

#### **Phelps Dodge Sierrita**

Sample Receipt

ACZ Project ID:	L61970
Date Received:	4/12/2007
Received By:	

Sample Container Preservation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0<2	T >12	N/A	RAD	ID
L61970-01	MH-15W		Y		Y							
L61970-02	M-16		Y		Y						1	
L61970-03	EQB041007A		Y		Y						1	
L61970-04	TB041007A		Y		Y		-	1				
L61970-05	BW-3		Y		Y							
L61970-06	PZ-3		Y		Y			1				
L61970-07	CNTB040607-05							1		Х		
L61970-08	VLP TB040607-06									Х		
Sample C	ontainer Preservation Lege	nd										
Abbreviati	on Description	Contai	ner Typ	be Pre	servati	ive/Limi	its					
R	Raw/Nitric	RED		pН	must be	< 2						
В	Filtered/Sulfuric	BLUE		pН	must be	< 2						
BK	Filtered/Nitric	BLACK		pН	must be	< 2						
G	Filtered/Nitric	GREEN		pН	must be	< 2						
0	Raw/Sulfuric	ORANC	θE	pН	must be	< 2						
P	Raw/NaOH	PURPLE	Ξ	pН	must be	> 12 *						
Т	Raw/NaOH Zinc Acetate	TAN		pН	must be	> 12						
Y	Raw/Sulfuric	YELLO	W	pН	must be	< 2						
G	Raw/Sulfuric	YELLO	W GLAS	S pH	must be	< 2						
N/A	No preservative needed	Not app	licable									
RAD	Gamma/Beta dose rate	Not app	licoblo	-	the - 9	50 µR/hi						

\* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:

Į	1 17	ł	١	(	$\lambda = I$	
1	 ·	<u> </u>	۰ ۱	1.	$\sim$	

ACZ Labo	ratories, Inc.	<u>K</u>	<u>`</u>				СН,	AIN (	of Cl	JSTO	DDY
2773 Downhill Drive Steamboat Sp Report to:	rings, CO 80487 (800) 334-	5493					×				
	يندوونين <u>المحمد المحمد الم</u>		Addition		<u></u>		ι Λ	. /	M.	2	/
Name: Billy Dorris	<u> </u>	-	Addre	255: <u>(p</u>	100 (	Nes7	L DUI Az	<u>/a/ /</u>	<u>Iline</u>	10	·····
Company: Phelps Dodge E-mail: B: Ily _ Dorrise	SIPILITA	-	1			· · ·	7 <u>7</u> 8 82		014		****
	-TIML, COTT		Telep	none.	<u> 320</u>	67	0 00	2/2		ithere i Thirtiche an de ci	karana o mo
Copy of Report to:					a constant an t		an tanan da sa				
Name:		-	E-mai								******
Company:			Telep	none:							
Invoice to:			i	<u></u>				<u>;</u>			
Name:			Addre	SS:							
Company:		-									
E-mail:			Telepl						T		
If sample(s) received past holding analysis before expiration, shall A					te				YES NO		
If "NO" then ACZ will contact clies			-		)"						
is indicated, ACZ will proceed wit	h the requested analyses, e	even if H				A CONTRACTOR OF THE OWNER.	the second s				
PROJECT INFORMATION	and a state of the	1	AN.	ALYSE:	S REQU	ESTEL	(attach	list or t	isë quo	te numi	per)
Quote #:		-	y)								
Project/PO #:		-	of Containers								
Reporting state for compliance t	esting:	-	onta								
Sampler's Name:		-	ŭ								
Are any samples NRC licensabl			*								
SAMPLE IDENTIFICATION	DATE:TIME	Matrix		-	<u> </u>		<u> </u>				
MH-15W	4-9-07 / 13:09	GW	9								
<u>M-16</u>	4-10-07/10:20	GW	9	<u>₩</u> ,	1200	11	Car-				
EQBOHIDOTA	4-10-07 / 14:45	GW	9	<u>}</u> _∕	Ţ/']	15L	$\frac{1}{1}$				
TB041007A	4-10-07/14:15	GW		╢──╴౽		1-	2				
BW-3	4-11-07/11:15	GW	9	╟┈╡	pυ		<b></b>			i	
<u> 7Z-J</u>	4-11-07/9:42	GW	7/	1							
		1									
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1									
Matrix SW (Surface Water) · GW	I (Ground Water) · WW (Waste Wa	iter) · DW (	(Drinkina	l Water) ·	L SL (Siud	ge) · SO	I	L (Oil) · O	ther (Spe	{cify}	
REMARKS					、				(		
						······					
											or distances we
Blacco **	efer to ACZ's terms & con	ditiona ia	hoted	on the	rovoror	oide	of this (	·oc			144 4 Yogʻi 21 24 200-201
RELINQUISHED BY		· · · · · · · · · · · · · · · · · · ·	104180		RECEI				DA	TE:TIÑ	
1:112 D.		3:20P	m	NV	X				1 1	7-11	
Joury T. Com	y-11-0//	2.200		+13	<del>}</del>				4 1	HA	$\overline{\gamma}$
······································							·····			Litt	-
									Notificiantal dourclass	undrimbiomiumoche	g Conservation and the second

**AGE A Laboratories, Inc.** 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493 Analytical Report

April 25, 2007

Report to: Bill Dorris Phelps Dodge Sierrita P.O. Box 527 Green Valley, AZ 85622-0527 Bill to: Accounts Payable Phelps Dodge Sierrita P.O. Box 2671 Phoenix, AZ 85002-2671

Project ID: ACZ Project ID: L61970

Bill Dorris:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on April 12, 2007. This project has been assigned to ACZ's project number, L61970. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 11.0. The enclosed results relate only to the samples received under L61970. 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 25, 2007. If the samples are determined to be hazardous, additional charges apply for disposal (typically less than \$10/sample). If you would like the samples to be held longer than ACZ's stated policy or to be returned, please contact your Project Manager or Customer Service Representative for further details and associated costs. ACZ retains analytical reports for five years.

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

25/Apr/07

Sue Webber, Project Manager, has reviewed and approved this report in its entirety.





REPAD.01.06.05.01

L61970: Page 1 of 39

**A** 

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

#### Phelps Dodge Sierrita

Project ID: Sample ID:

EQB041007A

## Inorganic Analytical Results

ACZ Sample ID:	L61970-03
Date Sampled:	04/10/07 14:45
Date Received:	04/12/07
Sample Matrix:	Ground Water

Inorganic Prep							
Parameter	EPA Method	Result Qual	XQ Units	MDL	PQL	Date	estimates a
Cyanide, total	M335.4 - Manual Distillation					04/16/07 14:02	brg
Metals Analysis							
Parameter	EPA Method	Result Qual	XO Units	MDL	- pielk	Data	
Aluminum, dissolved	M200.7 ICP	U	mg/L	0.03	0.2	04/19/07 0:12	msh
Antimony, dissolved	M200.8 ICP-MS	U	mg/L	0.0004	0.002	04/16/07 17:51	scp
Arsenic, dissolved	M200,8 ICP-MS	U	mg/L	0.0005	0.001	04/16/07 17:51	scp
Barium, dissolved	M200.7 ICP	U	mg/L	0.003	0.02	04/19/07 20:04	djt
Beryllium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001	0.0005	04/16/07 17:51	scp
Cadmium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001	0.0005	04/16/07 17:51	scp
Calcium, dissolved	M200.7 ICP	U	mg/L	0.2	1	04/19/07 0:12	msh
Chromium, dissolved	M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh
Cobalt, dissolved	M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh
Copper, dissolved	M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh
Iron, dissolved	M200.7 ICP	U	mg/L	0.02	0.05	04/19/07 0:12	msh
Lead, dissolved	M200.8 ICP-MS	U	mg/L	0.0001	0.0005	04/16/07 17:51	scp
Magnesium, dissolved	M200.7 ICP	U	mg/L	0.2	1	04/19/07 0:12	msh
Manganese, dissolved	M200.7 ICP	U	mg/L	0.005	0.03	04/19/07 0:12	msh
Mercury, dissolved	M245.1 CVAA	U	mg/L	0.0002	0.001	04/13/07 15:44	gme
Molybdenum, dissolved	1 M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh
Nickel, dissolved	M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh
Potassium, dissolved	M200.7 ICP	U	mg/L	0.3	2	04/19/07 20:04	dit
Selenium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001	0.0005	04/16/07 17:51	scp
Sodium, dissolved	M200.7 ICP	U	mg/L	0.3	2	04/19/07 0:12	msh
Thallium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001	0.0005	04/16/07 17:51	scp
Zinc, dissolved	M200.7 ICP	U	mg/L	0.01	0.05	04/19/07 0:12	msh

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

#### **Phelps Dodge Sierrita**

di di

Project ID: Sample ID:

<u>i</u>

EQB041007A

🚄 Laboratories, Inc.

## Inorganic Analytical Results

ACZ Sample ID: L61970-03 Date Sampled: 04/10/07 14:45 Date Received: 04/12/07 Sample Matrix: Ground Water

Wet Chemistry									
Parameter	EPA Method	Result	(G)(ia)		Units	. Mol	2001	Date	
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3			U		mg/L	2	20	04/13/07 0:00	cas
Carbonate as CaCO3	3		U		mg/L	2	20	04/13/07 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	04/13/07 0:00	cas
Total Alkalinity			U		mg/L	2	20	04/13/07 0:00	cas
Cation-Anion Balance	Calculation		·						
Cation-Anion Balance		n/a			%			04/25/07 0:00	calc
Sum of Anions		N/A			meq/L	0.1	0.5	04/25/07 0:00	calc
Sum of Cations			U		meq/L	0.1	0.5	04/25/07 0:00	calc
Chloride	M325.2 - Colorimetric		Ų	*	mg/L	1	5	04/18/07 12:51	jag
Conductivity @25C	M120.1 - Meter		U		umhos/cm	1	10	04/13/07 21:58	cas
Cyanide, total	M335.4 - Colorimetric w/ distillation		U	*	mg/L	0.005	0.03	04/19/07 15:14	jif
Fluoride	SM4500F-C		U	*	mg/L	0.1	0.5	04/17/07 17:13	cas
Hardness as CaCO3	SM2340B - Calculation	n/a			mg/L	1	7	04/25/07 0:00	calc
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		U	*	mg/L	0.02	0.1	04/20/07 18:44	nps
pH (lab)	M150.1 - Electrometric								
pН		6.1	Н		units	0.1	0.1	04/13/07 0:00	cas
pH measured at		21.0			С	0.1	0.1	04/13/07 0:00	cas
Residue, Filterable (TDS) @180C	M160.1 - Gravimetric		U		mg/L	10	20	04/12/07 13:59	seb
Sulfate	SM4500 SO4-D		U	*	mg/L	10	50	04/13/07 13:32	aeh/wpa
TDS (calculated)	Calculation		U		mg/L	10	50	04/25/07 0:00	calc
TDS (ratio - measured/calculated)	Calculation	n/a						04/25/07 0:00	calc

Arizona license number: AZ0102

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

## Phelps Dodge Sierrita

Project ID: Sample ID:

TB041007A

# Inorganic Analytica Results

ACZ Sample ID:	L61970-04
Date Sampled:	04/10/07 14:15
Date Received:	04/12/07
Sample Matrix:	Ground Water

Inorganic Prep						
Parameter	EPA Method	Result Onal J	C Units	MOL POL	Date	Arresteeri
Cyanide, total	M335.4 - Manual Distillation				04/16/07 14:16	brg
Metals Analysis						
Panameter	EPA Method	Result Qual	🛛 Units	MOL POL	Date	2010207533
Aluminum, dissolved	M200.7 ICP	U	mg/L	0.03 0.2	04/19/07 0:16	msh
Antimony, dissolved	M200.8 ICP-MS	U	mg/L	0.0004 0.002	04/16/07 18:07	scp
Arsenic, dissolved	M200.8 ICP-MS	U	mg/L	0.0005 0.001	04/16/07 18:07	scp
Barium, dissolved	M200.7 ICP	U	mg/L	0.003 0.02	04/19/07 20:24	djt
Beryllium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001 0.0005	04/16/07 18:07	scp
Cadmium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001 0.0005	04/16/07 18:07	scp
Calcium, dissolved	M200.7 ICP	U	mg/L	0.2 1	04/19/07 0:16	msh
Chromium, dissolved	M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh
Cobalt, dissolved	M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh
Copper, dissolved	M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh
Iron, dissolved	M200.7 ICP	U	mg/L	0.02 0.05	04/19/07 0:16	msh
Lead, dissolved	M200.8 ICP-MS	U	mg/L	0.0001 0.0005	04/16/07 18:07	scp
Magnesium, dissolved	M200.7 ICP	U	mg/L	0.2 1	04/19/07 0:16	msh
Manganese, dissolved	M200.7 ICP	U	mg/L	0.005 0.03	04/19/07 0:16	msh
Mercury, dissolved	M245.1 CVAA	U	mg/L	0.0002 0.001	04/13/07 15:46	gme
Molybdenum, dissolved	1 M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh
Nickel, dissolved	M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh
Potassium, dissolved	M200.7 ICP	U	mg/L	0.3 2	04/19/07 20:24	djt
Selenium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001 0.0005	04/16/07 18:07	scp
Sodium, dissolved	M200.7 ICP	U	mg/L	0.3 2	04/19/07 0:16	msh
Thallium, dissolved	M200.8 ICP-MS	U	mg/L	0.0001 0.0005	04/16/07 18:07	scp
Zinc, dissolved	M200.7 ICP	U	mg/L	0.01 0.05	04/19/07 0:16	msh

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

#### Phelps Dodge Sierrita

Project ID: Sample ID:

TB041007A

## **Inorganic Analytical** Resnite

ACZ Sample ID: L61970-04 Date Sampled: 04/10/07 14:15 Date Received: 04/12/07 Sample Matrix: Ground Water

Wet Chemistry									
Parameter	EPA Method	Result	(Ougl		Units	MDL	P(0)	Date	
Alkalinity as CaCO3	SM2320B - Titration		*****	000-000-000			24.9-2609/2017/2829		n herrighten herrighten i
Bicarbonate as			U		mg/L	2	20	04/13/07 0:00	cas
CaCO3					-				
Carbonate as CaCO	3		U		mg/L	2	20	04/13/07 0:00	cas
Hydroxide as CaCO3	3		U		mg/L	2	20	04/13/07 0:00	cas
Total Alkalinity			U		mg/L	2	20	04/13/07 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance	2	n/a			%			04/25/07 0:00	calc
Sum of Anions		N/A			meq/L	0.1	0.5	04/25/07 0:00	calc
Sum of Cations			U		meg/L	0.1	0.5	04/25/07 0:00	calc
Chloride	M325.2 - Colorimetric		U	*	mg/L	1	5	04/18/07 12:51	jag
Conductivity @25C	M120.1 - Meter		U		umhos/cm	1	10	04/13/07 22:03	cas
Cyanide, total	M335.4 - Colorimetric w/ distillation		U	*	mg/L	0.005	0.03	04/19/07 15:15	jlf
Fluoride	SM4500F-C		U	*	mg/L	0.1	0.5	04/17/07 17:20	cas
Hardness as CaCO3	SM2340B - Calculation	n/a			mg/L	1	7	04/25/07 0:00	caic
Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	0.02	в	*	mg/L	0.02	0.1	04/20/07 18:45	nps
pH (lab)	M150.1 - Electrometric						071	0.120.01 10.40	npo
рH		5.7	н		units	0.1	0.1	04/13/07 0:00	cas
pH measured at		21.0			C	0.1	0.1	04/13/07 0:00	cas
Residue, Filterable	M160.1 - Gravimetric		υ		mg/L	10	20	04/12/07 14:01	seb
(TDS) @180C			-		mg, L	10	20		360
Sulfate	SM4500 SO4-D		U	*	mg/L	10	50	04/13/07 13:36	aeh/wpa
TDS (calculated)	Calculation		U		mg/L	10	50	04/25/07 0:00	calc
TDS (ratio -	Calculation	n/a			-			04/25/07 0:00	calc
measured/calculated)									ouro

Arizona license number: AZ0102



# Inorganic Reference

	Explanations			
Batch		ples analyzed at a specific time		
Found	Value of the QC Type			
Limit	Upper limit for RPD, i			
Lower		t, in % (except for LCSS, mg/Kg)		
MDL	Method Detection Lin	nit. Same as Minimum Reporting Lir	nit. Allows for i	instrument and annual fluctuations.
PCN/SCN	A number assigned to	p reagents/standards to trace to the	manufacturer's	certificate of analysis
PQL	Practical Quantitation	Limit, typically 5 times the MDL.		
QC	True Value of the Cor	ntrol Sample or the amount added to	the Spike	
Rec	Amount of the true va	lue or spike added recovered, in % i	(except for LCS	SS, mg/Kg)
RPD	Relative Percent Diffe	erence, calculation used for Duplicate	e QC Types	
Upper	Upper Recovery Limit	t, in % (except for LCSS, mg/Kg)		
Sample	Value of the Sample of	of interest		
<ul> <li>Sample Type</li> </ul>	966			
AS	Analytical Spike (Pos	t Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Pos	t Digestion) Duplicate	LFB	Laboratory Fortified Blank
ССВ	Continuing Calibration		LFM	Laboratory Fortified Matrix
CCV	Continuing Calivation	Verification standard	LFMD	Laboratory Fortified Matrix Duplicate
DUP	Sample Duplicate		LRB	Laboratory Reagent Blank
ICB	Initial Calibration Blan	ık	MS	Matrix Spike
ICV	Initial Calibration Veri	fication standard	MSD	Matrix Spike Duplicate
ICSAB	Inter-element Correct	ion Standard - A plus B solutions	PBS	Prep Blank - Soil
LCSS	Laboratory Control Sa		PBW	Prep Blank - Water
LCSSD	Laboratory Control Sa		PQV	Practical Quantitation Verification standard
LCSW	Laboratory Control Sa		SDL	Serial Dilution
				Control Dinatori
0.000.00200.00000000000000000000000000	e Explanations	N		
Blanks				on in the prep method or calibration procedure.
Control San	npies	Verifies the accuracy of the met		
Duplicates		Verifies the precision of the instr		
Spikes/Forti	fied Matrix	Determines sample matrix interf		
Standard		Verifies the validity of the calibra	ation.	
2 Qualitiers	(Quai)			
В		detected at a value between MDL a		
Н	Analysis exceeded me	ethod hold time. pH is a field test wi	th an immediate	e hold time.
U	Analyte was analyzed	for but not detected at the indicated	I MDL	
(1)		lethods for Chemical Analysis of Wa		
(2)				ces in Environmental Samples, August 1993.
(3)				nental Samples - Supplement I, May 1994.
(5)		ethods for Evaluating Solid Waste, 1		
(6)	Standard Methods for	the Examination of Water and Wast	ewater, 19th ed	lition, 1995.
omments			CONTRACTOR CONTRACTOR CONTRACTOR	
(1)				nded values are used in the calculations.
	Soil, Sludge, and Plan	from raw data. Results may vary sli it matrices for Inorganic analyses are organic analyses are reported on an	e reported on a	dry weight basis.

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

## Phelps Dodge Sierrita

Project ID:

A

Inorganic QC Summary

Alkalinity as Ca	CO3		SM2320B	- Titration								
ACZ (D	Туре	Analyzed	PCN/SCN	10.C	Sample	Found	Units	Rec	Lower	Upper	R P D	Limit Qual
WG223094												
WG223094LCSW2	LCSW	04/13/07 16:28	WC070404-1	820		750.8	mg/L	91.6	80	120		
WG223094LCSW5	LCSW	04/13/07 19:40	WC070404-1	820		810.9	mg/L	98.9	80	120		
L61970-05DUP	DUP	04/13/07 22:19			127	127.4	mg/L				0.3	20
WG223094LCSW8	LCSW	04/13/07 22:33	WC070404-1	820		815.8	mg/L	99.5	80	120		
WG223162												
WG223162LCSW2	LCSW	04/16/07 17:12	WC070404-1	820		808.4	mg/L	98.6	80	120		
L61975-02DUP	DUP	04/16/07 19:22			253	256	mg/L				1.2	20
WG223162LCSW5	LCSW	04/16/07 20:47	WC070404-1	820		811.9	mg/L	99	80	120		
WG223162LCSW8	LCSW	04/17/07 0:29	WC070404-1	820		812.8	mg/L	99.1	80	120		
Aluminum, diss			M200.7 IC	P				·				
AC2(0	Type	Analyzed	PCN/SCN	500	Sample	Found	Units	Rec	Lower	Upper	RPD	limit 200
WG223292												
WG223292ICV	ICV	04/18/07 23:39	11070403-5	2		1.96	mg/L	98	95	105		
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.09	0.09		
WG223292LFB	LFB	04/19/07 0:00	11070328-2	1		1.009	mg/L	100.9	85	115		
L61984-01AS	AS	04/19/07 0:42	1070328-2	1	U	1.106	mg/∟	110.6	85	115		
L61984-01ASD	ASD	04/19/07 0:46	1070328-2	1	U	1.082	mg/L	108.2	85	115	2.19	20
/				······	-	+ +						20
Antimony, diss	ale e la companya de		M200.8 ICI	-								
Antimony, disse Acz.io	olved	Analyzed		-		Found		Rec	Lower	Unner		Limit Qual
•	ale e la companya de	Analyzed	M200.8 ICI	-								
ACZ ID	ale e la companya de	Analyzed 04/16/07 16:18	M200.8 ICI	-								
AC210 WG223100	Тура		M200.8 IC	QC		Found	Units	Rec	Lowor	Unner		
AC2 10 WG223100 WG223100ICV WG223100ICB WG223100LFB	Type ICV ICB LFB	04/16/07 16:18	M200.8 IC	QC		Fslond .01956	Units mg/L	Rec	Lower 90	Upper 110		
AC2 ID WG223100 WG223100ICV WG223100ICB WG223100LFB L61951-06AS	Typic ICV ICB LFB AS	04/16/07 16:18 04/16/07 16:24	M200.8 ICI PCN/SCN MS070308-2	@C .02		Foronet .01956 U	Dnits mg/L mg/L	Rec 97.8	Lower 90 -0.0012	Upper 110 0.0012		
AC2 10 WG223100 WG223100ICV WG223100ICB WG223100LFB L61951-06AS L61951-06ASD	Type ICV ICB LFB AS ASD	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3	QC .02 .00625	Sample	Foond .01956 U .00658	Daits mg/L mg/L mg/L	Rec 97.8 105.3	Lower 90 -0.0012 85	Umper 110 0.0012 115		
AC2 10 WG223100 WG223100ICV WG223100ICB WG223100ICB UG223100LFB L61951-06AS L61951-06ASD L61970-03AS	Type ICV ICB LFB AS ASD AS	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57	M200.8 ICI PON/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3	0C .02 .00625 .00625 .00625 .00625	Sample U U U	Found .01956 U .00658 .00647 .0063 .00641	Units mg/L mg/L mg/L mg/L	Pres 97.8 105.3 103.5 100.8 102.6	20wer 90 -0.0012 85 70	Unper 110 0.0012 115 130	RPD	Listi Akus)
AC2 10 WG223100 WG223100ICV WG223100ICB WG223100LFB L61951-06AS L61951-06ASD	Type ICV ICB LFB AS ASD	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3	QC .02 .00625 .00625 .00625	Sample U U	Found .01956 U .00658 .00647 .0063	Dants mg/L mg/L mg/L mg/L mg/L	Rec 97.8 105.3 103.5 100.8	90 -0.0012 85 70 70	Upper 110 0.0012 115 130 130	RPD	Listi Akus)
ACZ 10 WG223100 WG223100ICV WG223100ICB WG223100ICB UG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD Arsenic, dissolution	Type ICV ICB LFB AS ASD AS ASD Ved	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57 04/16/07 18:02	M200.8 ICI PON/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	F.90910 .01956 U.00658 .00647 .0063 .00641 .00665	Units mg/L mg/L mg/L mg/L mg/L mg/L	Pres 97.8 105.3 103.5 100.8 102.6	90 -0.0012 85 70 70 70 70 70	Upper 110 0.0012 115 130 130 130 130	RF2D 2.66	Limit Coul
AC2 10 WG223100 WG223100ICV WG223100ICB WG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD	Type ICV ICB LFB AS ASD AS ASD	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625 .00625	Sample U U U	Found .01956 U .00658 .00647 .0063 .00641	Units mg/L mg/L mg/L mg/L mg/L mg/L	Pres 97.8 105.3 103.5 100.8 102.6	90 -0.0012 85 70 70 70 70	Unper 110 0.0012 115 130 130 130	2.66 3.68	Limit Coul
ACZ 10 WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06ASD L61951-06ASD L61970-03ASD L61970-03ASD Arsenic, dissolv ACZ 10 WG223100	Type ICV ICB LFB AS ASD AS ASD Ved	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57 04/16/07 18:02	M200.8 ICI PONISON MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	F.90910 .01956 U.00658 .00647 .0063 .00641 .00665	Units mg/L mg/L mg/L mg/L mg/L mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4	90 -0.0012 85 70 70 70 70 70	Upper 110 0.0012 115 130 130 130 130	2.66 3.68	Limiti Cecal 20 20
ACZ ID WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06ASD L61951-06ASD L61970-03ASD L61970-03ASD Arsenic, dissolv ACZ ID WG223100 WG223100	Type ICV ICB LFB AS ASD AS ASD Ved Type	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57 04/16/07 18:02	M200.8 ICI PONISON MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	F.90910 .01956 U.00658 .00647 .0063 .00641 .00665	Units mg/L mg/L mg/L mg/L mg/L mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4	90 -0.0012 85 70 70 70 70 70	Upper 110 0.0012 115 130 130 130 130	2.66 3.68	Limiti Cecal 20 20
ACZ ID WG223100ICV WG223100ICB WG223100ICB WG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD Arsenic, dissolv ACZ ID WG223100 WG223100ICV WG223100ICV	Type ICV ICB LFB AS ASD AS ASD Ved Type ICV ICB	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57 04/16/07 18:02 Accelyzed	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	Found .01956 U .00658 .00647 .0063 .00641 .00665	Units mg/L mg/L mg/L mg/L mg/L mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4 Rec	90 -0.0012 85 70 70 70 70 70	Upper 110 0.0012 115 130 130 130 130 Upper	2.66 3.68	Limiti Cecal 20 20
ACZ ID WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD Arsenic, dissolv AcZ IO WG223100ICV WG223100ICV WG223100ICB WG223100LFB	Type ICV ICB LFB AS ASD AS ASD Yed Type ICV ICB LFB	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 17:57 04/16/07 18:02	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3	.02 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	Found .01956 U .00658 .00647 .0063 .00641 .00665 Found	Units mg/L mg/L mg/L mg/L mg/L Units mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4 Rec	90 -0.0012 85 70 70 70 70 70 70 20	Usper 110 0.0012 115 130 130 130 Upper 110	2.66 3.68	Limiti Cecal 20 20
ACZ 10 WG223100ICV WG223100ICB WG223100ICB WG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD Arsenic, dissolv ACZ 10 WG223100 WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06AS	Type ICV ICB LFB AS ASD AS ASD Yed Type ICV ICB LFB AS	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 16:56 04/16/07 18:02 Accelored 04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070308-2	.02 .00625 .00625 .00625 .00625 .00625 .00625 .00625	Sample) ป ป ป ป	E00000 U .00658 .00647 .0063 .00641 .00665 Found .05158 U	Units mg/L mg/L mg/L mg/L mg/L Units mg/L mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4 Rec 103.2	90 -0.0012 85 70 70 70 70 70 70 70 70 90 -0.0015	Lipper 110 0.0012 115 130 130 130 Upper 110 0.0015	2.66 3.68	Limiti Cecal 20 20
ACZ 10 WG223100ICV WG223100ICB WG223100ICB WG223100LFB L61951-06AS L61970-03AS L61970-03AS L61970-03AS L61970-03ASD Arsenic, dissolv ACZ 10 WG223100 WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06AS L61951-06ASD	Type ICV ICB LFB AS ASD AS ASD Type ICV ICB LFB AS ASD	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 16:57 04/16/07 18:02 Accelozed 04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3	0C .02 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .005 .05	Sample U U U Sample .001 .001	E00000 .01956 U .00658 .00647 .0063 .00641 .00665 E00000 .05158 U .05377 .05712 .05722	Units mg/L mg/L mg/L mg/L mg/L Units Units mg/L mg/L	Rec 97.8 105.3 103.5 100.8 102.6 106.4 Rec 103.2 107.5	90 -0.0012 85 70 70 70 70 70 70 70 70 90 -0.0015 85	Upper 110 0.0012 115 130 130 130 Upper 110 0.0015 115	2.66 3.68	Limiti Cecal 20 20
ACZ 10 WG223100ICV WG223100ICB WG223100ICB WG223100LFB L61951-06AS L61951-06ASD L61970-03AS L61970-03ASD Arsenic, dissolv ACZ 10 WG223100 WG223100ICV WG223100ICV WG223100ICB WG223100LFB L61951-06AS	Type ICV ICB LFB AS ASD AS ASD Yed Type ICV ICB LFB AS	04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51 04/16/07 16:56 04/16/07 16:56 04/16/07 18:02 Accelored 04/16/07 16:18 04/16/07 16:24 04/16/07 16:29 04/16/07 16:51	M200.8 ICI PCN/SCN MS070308-2 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070227-3 MS070308-2 MS070227-3 MS070227-3	0C .02 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .00625 .005 .05	Sample U U U U Sample	Esonol .01956 U .00658 .00647 .0063 .00641 .00665 Eound .05158 U .05377 .05712	Units mg/L mg/L mg/L mg/L mg/L Units Units mg/L mg/L mg/L	Rec           97.8           105.3           103.5           100.8           102.6           106.4           Rec           103.2           107.5           112.2	2.0wer 90 -0.0012 85 70 70 70 70 70 70 70 70 70 70 70 70 70	Upper 110 0.0012 115 130 130 130 130 Upper 110 0.0015 115 130	R925 2.66 3.68 8649	Limit Chaol 20 20 Limit Qual

AGZ Laboratories, Inc.

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

# Inorganic QC Summary

## Phelps Dodge Sierrita

Project ID:

Barium, disso	lved		M200.7 I	CP							an a		
ACZ ID	Туре	Analyzed	POMISON	QC	Semiar	Found	Units	Rec	Lower	Upper	(11) (11)	Ramin	Quel
WG223337													
WG223337ICV1	ICV	04/19/07 19:29	11070403-5	2		2.0402	on a /l	+00	05	405			
WG223337ICB	ICB	04/19/07 19:29	1070403-0	2		2.0402 U	mg/L mg/L	102	95 -0.009	105 0.009			
WG223337LFB	LFB	04/19/07 19:49	1070418-2	.5		.4935	-	98.7	-0.009 85				
L61970-03AS	AS	04/19/07 20:08	1070418-2	.5	U	.4955	mg/L mg/L	95.3	65 85	115			
L61970-03ASD	ASD	04/19/07 20:12	1070418-2	.5	U	.4839	mg/L	95.5 96.8	85	115 115	1.56	20	
Beryllium, diss	solved		M200.8 I	CP-MS									
AX572 (10	Туре	Analyzed	PCN/SICN	QC	Semul	. Found	Units	Rec	- Leoner	Lippen	Regio	- Minili	e constant.
WG223100											1949-1114-1114-1114-1114-1114-1114-1114		
WG223100ICV	ICV	04/16/07 16:18	MS070308-2	.05		.04882	mg/L	97.6	90	110			
WG223100ICB	ICB	04/16/07 16:24				U	mg/L		-0.0003	0.0003			
WG223100LFB	LFB	04/16/07 16:29	MS070227-3	.05		.05034	mg/L	100.7	85	115			
L61951-06AS	AS	04/16/07 16:51	MS070227-3	.05	U	.0524	mg/L	104.8	70	130			
L61951-06ASD	ASD	04/16/07 16:56	MS070227-3	.05	U	.05197	mg/L	103.9	70	130	0.82	20	
L61970-03AS	AS	04/16/07 17:57	MS070227-3	.05	U	.05386	mg/L	107.7	70	130			
L61970-03ASD	ASD	04/16/07 18:02	MS070227-3	.05	U	.05624	mg/L	112.5	70	130	4.32	20	
Cadmium, dise	solved		M200.8 K	CP-MS									
ALCZ ID	Type	Analyzed	PCMISCN	- GC	Samole	Found	Units	Rec	Lower	lipper	RPO	Limit	Qual
WG223100													
WG223100ICV	ICV	04/16/07 16:18	MS070308-2	.05		.05112	mg/L	102.2	90	110			
WG223100ICB	ICB	04/16/07 16:24				U	mg/L		-0.0003	0.0003			
WG223100LFB	LFB	04/16/07 16:29	MS070227-3	.05		.05198	mg/L	104	85	115			
L61951-06AS	AS	04/16/07 16:51	MS070227-3	.05	υ	.05346	mg/L	106.9	70	130			
L61951-06ASD	ASD	04/16/07 16:56	MS070227-3	.05	U	.05261	mg/L	105.2	70	130	1.6	20	
L61970-03AS	AS	04/16/07 17:57	MS070227-3	.05	U	.05295	mg/L	105.9	70	130			
L61970-03ASD	ASD	04/16/07 18:02	MS070227-3	.05	U	.05407	mg/L	108.1	70	130	2.09	20	
Calcium, disso	lved		M200.7 K	CP						1944 H.			
ACZ ID	Турс	Analyzed	PGN/SCN	016	Sample	Found	Units	- <b>1</b> 0212	Lower	lipper	- WPD	Linnis	and -
WG223292													
WG223292ICV	ICV	04/18/07 23:39	11070403-5	100		99.05	mg/L	99.1	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.6	0.6			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	67.97554		67.2	mg/L	98.9	85	115			
L61984-01AS	AS	04/19/07 0:42	11070328-2	67.97554	101	173.9	mg/L	107.2	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	67.97554	101	171.26	mg/L	103.4	85	115	1.53	20	
Chloride			M325.2 -	Colorimetric									
ACZ10	Туре	Analyzed	TCM/SICK	ac	Sample	Forma	Units	Rec	Lower	Upper	NG20	Lonit	(Que)
WG223268													
WG223268ICB	ICB	04/18/07 10:30				U	mg/L		-3	3			
WG223268ICV	ICV	04/18/07 10:30	WI070314-1	55		60	mg/L	109.1	90	110			
WG223268LFB1	LFB	04/18/07 12:44	WI070205-1	30		31.9	mg/L	106.3	90	110			
WG223268LFB2	LFB	04/18/07 12:45	WI070205-1	30		31.7	mg/L	105.7	90	110			
L61970-03DUP	DUP	04/18/07 12:51			U	U	mg/L				0	20	RA
WG223268LFB3	LFB	04/18/07 13:04	WI070205-1	30		30	mg/L	100	90	110			
L61970-02AS	AS	04/18/07 13:19	10XCL	30	76	106	mg/L	100	90	110			
REPIN.01.06.05.0	1												945.25236369=

AGZ Laboratories, Inc.

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

# Inorganic QC Summary

## Phelps Dodge Sierrita

Project ID:

Chromium, dis			M200.7 I	СР								
ACZ ID	Туре	Analyzed	PONSON	00	Samole	Forum	Units	Rec	Lower	Upper	860	Limit Coal
WG223292												
WG223292ICV	ICV	04/18/07 23:39	1070403-5	2		1.937	mg/L	96.9	95	105		
WG2232921CB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03		
WG223292LFB	LFB	04/19/07 0:00	11070328-2	.5		.48	mg/L	96	85	115		
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	U	.497	mg/L	99.4	85	115		
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	U	.487	mg/L	97.4	85	115	2.03	20
Cobalt, dissolv			M200.7 I	CP								
ACZ ID	Туре	Analyzed	PCM/SCN	36	Sample	Found	Units	Res	Lower	- Upper	1271D	Limit (600)
WG223292												
WG223292ICV	ICV	04/18/07 23:39	11070403-5	2		1.908	mg/L	95.4	95	105		
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03		
WG223292LFB	LFB	04/19/07 0:00	11070328-2	.5		.464	mg/L	92.8	85	115		
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	.01	.506	mg/L	99.2	85	115		
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	.01	.499	mg/L	97.8	85	115	1.39	20
Conductivity @	25C		M120.1 •	Meter								
Apz (D	Type	Analyzed	PCN/SCN	QC	Sample	- points	Unics	1.c.	Lower	Upper	RPD	Anni Anni
WG223094												
WG223094PBW1	PBW	04/13/07 16:16				U	umhos/cm		-10	10		
WG223094LCSW1	LCSW	04/13/07 16:17	PCN26780	1408.8		1673	umhos/crr	118.8	80	120		
WG223094PBW2	PBW	04/13/07 19:29				2.9	umhos/cm		-10	10		
WG223094LCSW4	LCSW	04/13/07 19:30	PCN26780	1408.8		1673	umhos/cm	118.8	80	120		
L61970-05DUP	DUP	04/13/07 22:19			5100	5060	umhos/cm				0.8	20
WG223094LCSW7	LCSW	04/13/07 22:20	PCN26780	1408.8		1676	umhos/crr	119	80	120		
WG223162												
WG223162PBW1	PBW	04/16/07 16:59				U	umhos/crr		-10	10		
WG223162LCSW1	LCSW	04/16/07 17:01	PCN26780	1408.8		1689	umhos/crr	119.9	80	120		
L61975-02DUP	DUP	04/16/07 19:22			1470	1428	umhos/cm				2.9	20
WG223162PBW2	PBW	04/16/07 20:35				U	umhos/cm		-10	10		
WG223162LCSW4	LCSW	04/16/07 20:37	PCN26780	1408.8		1640	umhos/crr	116.4	80	120		
WG223162LCSW7	LCSW	04/17/07 0:18	PCN26780	1408.8	· · · · · · · · · · · · · · · · · · ·	1658	umhos/crr	117.7	80	120		
Copper, dissolv			M200.7 I	CP								
ACZID	Type	Analyzed	PCN/SCN	38	Sample	Found	Units	Rec	Lower	Upper	192993	later (
WG223292												
WG223292ICV	ICV	04/18/07 23:39	11070403-5	2		1.939	mg/L	97	95	105		
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03		
WG223292LFB	LFB	04/19/07 0:00	11070328-2	.5		.485	mg/L	97	85	115		
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	U	.502	mg/L	100.4	85	115		
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	U	.496	mg/L	99.2	85	115	1.2	20

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

## Phelps Dodge Sierrita

di di

Project ID:

Cyanide, total	With March 1996	100/0000 10020/0000000	M335.4 - 0	Colorimetr	ic w/ disti	llation							
ACZ ID	Type	Analyzed	POM/SON	QC .	Sample	Pound	Units	Rec	Lower	Upper	RPD	Limit	Casesi
WG223367													
WG223367ICV	ICV	04/19/07 14:50	W1070412-6	.3		.3003	mg/L	100.1	90	110			
WG223367ICB	ICB	04/19/07 14:51				U	mg/L		-0.015	0.015			
WG223143LRB	LRB	04/19/07 14:52				U	mg/L		-0.015	0.015			
WG223143LFB	LFB	04/19/07 14:53	WI070412-2	.2		.2145	mg/L	107.3	90	110			
L61913-06DUP	DUP	04/19/07 14:54			υ	U	mg/L				0	20	R
L61913-07LFM	LFM	04/19/07 14:56	WI070412-2	.2	U	.2155	mg/L	107.8	90	110			
L61949-01DUP	DUP	04/19/07 15:07			U	U	mg/L				0	20	R
L61949-02LFM	LFM	04/19/07 15:09	WI070412-2	.2	Ų	.1968	mg/L	98.4	90	110			
WG223144LRB	LRB	04/19/07 15:18				U	mg/L		-0.015	0.015			
WG223144LFB	LFB	04/19/07 15:19	WI070412-2	.2		.2099	mg/L	105	90	110			
L61971-01DUP	DUP	04/19/07 15:21			U	U	mg/L				0	20	R
L61971-02LFM	LFM	04/19/07 15:25	WI070412-2	.2	U	.2119	mg/L	106	90	110			
Fluoride			SM4500F-	C									
ACZID	Туре	Analyzed	PONISION	90	Sample	Found	Units	Rec	Lower	Upper	38(2)0	Limit	Gual
WG223211													
WG223211ICV1	ICV	04/17/07 16:27	WC070407-2	1.992		2.09	mg/L	104.9	95	105			
WG223211ICB	ICB	04/17/07 16:34				U	mg/L	10-1.0	-0.3	0.3			
WG223211LFB1	LFB	04/17/07 16:42	WC070213-5	5		5.28	mg/L	105.6	90	1 <b>1</b> 0			
L61970-01AS	AS	04/17/07 16:53	WC070213-5	5	.2	5.22	mg/L	100.4	85	115			
L61970-01DUP	DUP	04/17/07 17:00		-	.2	.2	mg/L				0	20	R
Iron, dissolved			M200.7 ICI	>									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	1126718	Limite	
WG223292													
WG223292ICV	ICV	04/18/07 23:39	1070403-5	2		1 000	mail	00 #	05	405			
WG223292100 WG2232921CB	ICB	04/18/07 23:43	1070403-0	2		1.989 U	mg/L	99.5	95	105			
WG223292LFB	LFB	04/19/07 0:00	11070328-2	1		1.014	mg/L mg/L	101.4	0.06 85	0.06 115			
L61984-01AS	AS	04/19/07 0:42	1070328-2	1	.19	1.215	-	101.4					
L61984-01ASD	ASD	04/19/07 0:46	1070328-2	4	.19	1.196	mg/L mg/L	102.5	85 85	115 115	1.58	20	
Lead, dissolve	d		M200.8 ICF	P-MS									
ACZID	Туре	Analyzed	PONISON		Semule	Found	Units	Res	Lower	Upper	- 1995) - 1995		
WG223100									nan san ang ang ang ang ang ang ang ang ang a				
WG223100ICV	ICV	04/16/07 16:18	MS070308-2	.05		.0543	mg/L	108.6	90	110			
WG223100ICB	ICB	04/16/07 16:24				U	mg/L		-0.0003	0.0003			
WG223100LFB	LFB	04/16/07 16:29	MS070227-3	.05		.0537	mg/L	107.4	85	115			
L61951-06AS	AS	04/16/07 16:51	MS070227-3	.05	.0001	.05295	mg/L	105.7	70	130			
L61951-06ASD	ASD	04/16/07 16:56	MS070227-3	.05	.0001	.05268	mg/L	105.2	70	130	0.51	20	
							<i>•</i>		-				
L61970-03AS	AS	04/16/07 17:57	MS070227-3	.05	U	.05282	mg/L	105.6	70	130			

L61970

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

# Inorganic QC Summary

## Phelps Dodge Sierrita

Project ID:

AC

Magnesium, d	issolve		M200.7	ICP									
ACZIB	Туре	Analyzed	PCN/SCN	æ	Sample	Found	Units	Ret	Lower	Upper	RPD	Limit	Denal
WG223292													
WG223292ICV	ICV	04/18/07 23:39	11070403-5	100		97.25	mg/L	97.3	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.6	0.6			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	54.9596		53.59	mg/L	97.5	85	115			
L61984-01AS	AS	04/19/07 0:42	1070328-2	54.9596	94	152.39	mg/L	106.2	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	54.9596	94	150.44	mg/L	102.7	85	115	1.29	20	
Manganese, di	issolved	i	M200.7	ICP									
AUZID	Туре	Analyzed	PCN/SCN	ac.	Sample	Tound	Units	Rez	Lower	Upper		1 miles	Qual
WG223292													
WG223292ICV	ICV	04/18/07 23:39	1070403-5	2		1.936	mg/L	96.8	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.015	0.015			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	.5		.5103	mg/L	102.1	85	115			
L61984-01AS	AS	04/19/07 0:42	1070328-2	.5	.019	.5455	mg/L	105.3	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	.019	.5366	mg/L	103.5	85	115	1.64	20	
Mercury, disso	olved		M245.1	CVAA									
ACZ ID	Туре	Analyzed	PCN/SCN	C.C	Sample	Found	Units	Rea	Lower	Upper	RED	Kimiit	Const
WG223031													
WG223031ICV	ICV	04/13/07 13:56	1070406-1	.00498		.00505	mg/L	101.4	90	110			
WG223031ICB	ICB	04/13/07 13:59		.00400		.00000 U	mg/L	101.4	-0.0006	0.0006			
WG223071						0	nig/ L		-0.0000	0.0000			
WG223071LRB	LRB	04/13/07 15:12				U	mg/L		-0.00044	0.00044			
WG223071LFB	LFB	04/13/07 15:14	1070411-6	.002		.00201	mg/L	100.5	85	115			
L61927-02LFM	LFM	04/13/07 15:19	11070411-6	.002	U	.00223	mg/L	111.5	85	115			
L61927-02LFMD	LFMD	04/13/07 15:21	1070411-6	.002	U	.00215	mg/L	107.5	85	115	3.65	20	
L61970-05LFM	LFM	04/13/07 15:50	11070411-6	.002	U	.00211	mg/L	105.5	85	115			
L61970-05L.FMD	LFMD	04/13/07 15:52	1070411-6	.002	υ	.00219	mg/L	109.5	85	115	3.72	20	
Molybdenum,	dissolve	d	M200.7 I	CP									
ACZID	Турю	Analyzed	PONISCO	QC	Semila	e kontoù	Linits	Rer.	Lower	Lipper	100 D	. Izmii –	- Annal -
WG223292													
WG223292ICV	ICV	04/18/07 23:39	11070403-5	2		1.976	mg/L	98.8	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	.5		.479	mg/L	95.8	85	115			
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	U	.521	mg/L	104.2	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	U	.511	mg/L	102.2	85	115	1.94	20	
Nickel, dissolv	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PONISON	œc	Sample	Found	Units	Rec	Lower	Lipper	RPD	Linnia	10 LASI
WG223292													hhainkittininkittiiti
WG223292ICV	ICV	04/18/07 23:39	11070403-5	2		1.916	mg/L	95.8	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03			
WG223292LFB	LFB	04/19/07 0:00	11070328-2	.5		.481	mg/L	96.2	85	115			
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	.04	.537	mg/L	99.4	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	.04	.529	mg/L	97.8	85	115	1.5	20	

2773 Downhill Drive Steamboat Springs, CO 80487

04/20/07 17:23

04/20/07 17:24

04/20/07 17:27

04/20/07 18:05

04/20/07 18:29

04/20/07 18:32

04/21/07 16:11

04/21/07 16:12

04/21/07 20:07

04/21/07 20:08

04/21/07 20:09

04/21/07 20:12

04/21/07 20:14

04/21/07 20:48

WI070308-3

WI070307-9

WI070307-9

WI070307-9

WI070308-3

WI070308-3

WI070307-9

WI070307-9

WI070307-9

# Phelps Dodge Sierrita

ICV

ICB

LFB

LEB

DUP

AS

ICV

ICB

**ICV** 

ICB

LFB

AS

DUP

LFB

. M: 4

Project ID:

ACZ ID

WG223439 WG223439ICV

WG223439ICB

WG223439LFB1

WG223439LFB2

L61951-03DUP

L61951-04AS

WG223463 WG223463ICV

WG223463ICB

WG223467 WG223467ICV

WG223467ICB

WG223467LFB1

L61970-05AS

pH (lab)

L61970-06DUP

WG223467LFB2

Nitrate/Nitrite as N

Simon (800) 334-5493 ACZ Project ID: L61970 M353.2 - H2SO4 preserved 5 89 mple Found Units RPD Limit Qual 2.416 2.406 mg/L 99.6 90 110 Ų mg/L -0.06 0.06 2 2.09 mg/L 104.5 90 110 2 1.966 mg/L 98.3 90 110 .08 .081 mg/L 1.2 20 RA 2 U 2.09 mg/L 104.5 90 110 2.416 2.307 mg/L 95.5 90 110 U mg/L -0.06 0.06 2.416 2.352 mg/L 97.4 90 110 U mg/∟ -0.06 0.06 2 2.008 mg/L 100.4 90 110 2 .02 2.201 mg/L 109.1 90 110 .09 .096 mg/L 6.5 20 RA 2 1.933 mg/L 96.7 90 110 M150.1 - Electrometric

Inorganic GC

Potassium, dis	solved		M200.7 ICP										
WG223162LCSW9	LCSW	04/17/07 0:32	PCN25442	6		6.08	units	101.3	90	110			
WG223162LCSW6	LCSW	04/16/07 20:51	PCN25442	6		6.07	units	101.2	90	110			
L61975-02DUP	DUP	04/16/07 19:22			8.9	9	units				1.1	20	
WG223162LCSW3	LCSW	04/16/07 17:15	PCN25442	6		6.07	units	101.2	90	110			
WG223162													
WG223094LCSW9	LCSW	04/13/07 22:37	PCN25442	6		6.06	units	101	90	110			
L61970-05DUP	DUP	04/13/07 22:19			7.8	7.79	units				0.1	20	
WG223094LCSW6	LCSW	04/13/07 19:43	PCN25442	6		6.06	units	101	90	110			
WG223094LCSW3	LCSW	04/13/07 16:31	PCN25442	6		6.08	units	101.3	90	110			
WG223094													
Ale:201	19pe	Analyzed	PONISON	90	Sample	Tound	Units	Rec	Lower	Upper	RPD	Limi): Qoal	
AC2 10	Tegas	Analyzer	PONISCN	-06	Sample	1 QUINI	Units	Rec	Lawron	Upper	RPD	Reception	alemi

ACZID	Туре	Analyzed	PCM/SCA	CC	Sample	Found	Units	Rec	Lower	Upper	RPD -	A MARK	
WG223337													
WG223337ICV1	ICV	04/19/07 19:29	11070403-5	20		20.45	mg/L	102.3	95	105			
WG223337ICB	ICB	04/19/07 19:33				U	mg/L		-0.9	0.9			
WG223337LFB	LFB	04/19/07 19:49	11070418-2	99.61502		102.84	mg/L	103.2	85	115			
L61970-03AS	AS	04/19/07 20:08	11070418-2	99.61502	U	97.04	mg/L	97.4	85	115			
L61970-03ASD	ASD	04/19/07 20:12	11070418-2	99.61502	U	100.54	mg/L	100.9	85	115	3.54	20	

Residue, Filterable (TDS) @180C M160.1 - Gravimetric

ACZ 10		Туре	Analyzod	RCAUSICN	ac	Sample	Found	Units	Reec	1.309784	ыррет	- RPD	shoot	
WG223	038													
WG2230	38PBW	PBW	04/12/07 13:35				U	mg/L		-20	20			
WG2230	38LCSW	LCSW	04/12/07 13:36	PCN26761	260		260	mg/L	100	80	120			
L61970-0	6DUP	DUP	04/12/07 14:04			4080	4104	mg/L				0.6	20	

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

## Phelps Dodge Sierrita

Project ID:

Inorganic QC Summary

	1012/06/07/07/07/07/07		and a second state of the second s		lability and the state of the state								
Selenium, diss	olved		M200.8 IC	P-MS									
ACZ ID	Type	Analyzed	PCN/SCN	ОC.	Sample	Found	Units	Rec	Lower	Upper-			Dani
WG223100	, , , , , , , , , , , , , , , , , , ,												
WG223100ICV	ICV	04/16/07 16:18	MS070308-2	.05		.05505	mg/L	110.1	90	110			
WG223100ICB	ICB	04/16/07 16:24	11007 0000 L	.00		.00000 U	mg/L	1.10.1	-0.0003	0.0003			
WG223100LFB	LFB	04/16/07 16:29	MS070227-3	.05		.05215	mg/L	104.3	85	115			
L61951-06AS	AS	04/16/07 16:51	MS070227-3	.05	.0002	.0567	mg/L	113	70	130			
L61951-06ASD	ASD	04/16/07 16:56	MS070227-3	.05	.0002	.05637	mg/L	112.3	70	130	0.58	20	
L61970-03AS	AS	04/16/07 17:57	MS070227-3	.05	U	.05847	mg/L	116.9	70	130			
L61970-03ASD	ASD	04/16/07 18:02	MS070227-3	.05	U	.05773	mg/L	115.5	70	130	1.27	20	
Sodium, dissol	ved		M200.7 IC	Р									
Acz ID	Туре	Analyzed	PONISON	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Open
WG223292													
WG223292ICV	ICV	04/18/07 23:39	11070403-5	100		100.57	mg/L	100.6	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L	100.0	-0.9	0.9			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	99.92361		98.41	mg/L	98.5	85	115			
L61984-01AS	AS	04/19/07 0:42	11070328-2	99.92361	61.3	168.52	mg/L	107.3	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	99.92361	61.3	167.03	mg/L	105.8	85	115	0.89	20	
Sulfate			SM4500 S	SO4-D									
ACZ ID	Туре	Analyzed		QC	Sample	Found	Uolts	Rec	Lower	Uoper	C TROVE	Amult	e en mener
WG223058													
WG223058PBW	PBW	04/12/07 16:00				U	mell		20	00			
WG223058LCSW	LCSW	04/12/07 16:03	WC061207-2	100		100	mg/∟ mg/∟	100	-30 80	30 120			
L61972-04DUP	DUP	04/12/07 17:17	10001207 2	100	150	159	mg/L	100	60	120	5.8	20	
WG223106					100	100	ngre				0.0	20	
WG223106PBW	PBW	04/13/07 13:20				U	mall		20	20			
WG223106LCSW	LCSW	04/13/07 13:24	WC061207-2	100		95	mg/L mg/L	95	-30 80	30 120			
L61985-02DUP	DUP	04/13/07 14:10		100	10	U	mg/L	35	00	120	0	20	RA
Thallium, disso	lved		M200.8 IC	P.MS									
AI5/2 (D	Togota	Analyzed	Provision	2 <b>- 1010</b>	Samale	- Sound-	il nice	Rom	Lower				
WG223100													
		04/10/07 40.40	M0070000 0	050					<b>A</b> -				
WG223100ICV WG223100ICB	ICV ICB	04/16/07 16:18 04/16/07 16:24	MS070308-2	.056		.0574	mg/L	102.5	90	110			
			10070007 0			.00011	mg/L		-0.0003	0.0003			
WG223100LFB L61951-06AS	LFB	04/16/07 16:29	MS070227-3	.05		.05388	mg/L	107.8	85	115			
L61951-06ASD	AS	04/16/07 16:51	MS070227-3	.05	U	.05353	mg/L	107.1	70	130			
L61970-03AS	ASD	04/16/07 16:56	MS070227-3	.05	U	.05301	mg/L	106	70	130	0.98	20	
L61970-03ASD	AS ASD	04/16/07 17:57 04/16/07 18:02	MS070227-3 MS070227-3	.05	U	.05322	mg/L	106.4	70	130			
		04/10/07 10:02	1/10// 0/2/-3	.05	U	.05376	mg/L	107.5	70	130	1.01	20	

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

## Phelps Dodge Sierrita

Project ID:

40

ACZ Project ID: L61970

Inorganie ele

Summary

Zinc, dissolve ACZ 10		Araalyzerd	M200.7 ICI PCN/SCN		Sample	Found	Units	Rec	Lower	. Upmor	ethe.	Linit.	Qual
WG223292													
WG223292ICV	ICV	04/18/07 23:39	1070403-5	2		1.909	mg/L	95.5	95	105			
WG223292ICB	ICB	04/18/07 23:43				U	mg/L		-0.03	0.03			
WG223292LFB	LFB	04/19/07 0:00	1070328-2	.5		.479	mg/L	95.8	85	115			
L61984-01AS	AS	04/19/07 0:42	11070328-2	.5	.06	.583	mg/L	104.6	85	115			
L61984-01ASD	ASD	04/19/07 0:46	11070328-2	.5	.06	.564	mg/L	100.8	85	115	3.31	20	

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

# Inorganic Extended Qualifier Report

#### Phelps Dodge Sierrita

ACZ (P)	WCRIKNUM	PARAMITER	метнов	QUAL	DESCRIPTION
L61970-01	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-02	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-03	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-04	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C		Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223439	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved		Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D		Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

gang **m**ag

A Laboratories, Inc.2773 Downhill DriveSteamboat Springs, CO 80487 (800) 334-5493

# Inorganic Extended Qualifier Report

#### helps Dodge Sierrita

ACZ ID	WORKNUM	PARAMETER	4E HOD	DUAL	DESCRIPTION
L61970-05	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223467	Nitrate/Nitrite as N	M353.2 ~ H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-06	WG223268	Chloride	M325.2 - Colorimetric	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223211	Fluoride	SM4500F-C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223467	Nitrate/Nitrite as N	M353.2 - H2SO4 preserved	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG223038	Residue, Filterable (TDS) @180C	M160.1 - Gravimetric	zo	TDS concentration is based on a final residue greater than 200 mg.
	WG223106	Sulfate	SM4500 SO4-D	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L61970-07	WG223367	Cyanide, total	M335.4 - Colorimetric w/ distillation	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

ACZ Laboratories, Inc. 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493			umpla acceip)	
helps Dodge Sierrita		ceived: ved By:		L61970 /12/2007
	Date H	Printed:	4/	'12/2007
Receipt Vertilication		YES	NO	NA
1) Does this project require special handling procedures such as CLP protocol?				
2) Are the custody seals on the cooler intact?		X		
3) Are the custody seals on the sample containers intact?			107801000000000000000000000000000000000	X
4) Is there a Chain of Custody or other directive shipping papers present?		X		
5) Is the Chain of Custody complete?		Х		
6) Is the Chain of Custody in agreement with the samples received?		Х		
7) Is there enough sample for all requested analyses?		Х		
8) Are all samples within holding times for requested analyses?		Х		
9) Were all sample containers received intact?		Х	anwoann	
10) Are the temperature blanks present?				X
11) Are the trip blanks (VOA and/or Cyanide) present?		Х		
12) Are samples requiring no headspace, headspace free?		Х		1
13) Do the samples that require a Foreign Soils Permit have one?				×

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

N/A

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

N/A

## Shipping Compiders

Cooler Id	Temp (°C)	Rad (µR/hr)
1534	5.9	15

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

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

#### Pheip

STOLEN.

R В ΒK G 0 Ρ Т ~ 7 /G N/A RAD Sample Receipt

Phelps D	odge Sierrita				ACZ Project ID: Date Received: Received By:				L61970 4/12/2007				
Sources and	cutoline Preservation												
SAMPLE	CLIENT ID	R<2	G < 2	ВК < 2	Y< 2	YG< 2	B< 2	0<2	T >12	N/A	RAD	D	
L61970-01	MH-15W	1	Y.	1	Y	1							
L61970-02	M-16		Y		Y			1	1		1		
L61970-03	EQB041007A		Y		Y								
L61970-04	61970-04 TB041007A		Y	ĺ	Y				1		<u> </u>		
L61970-05 BW-3			Y		Y			1			1		
L61970-06	PZ-3		Y		Y								
L61970-07	CNTB040607-05							1		Х	1		
L61970-08	VLP TB040607-06									X		18	
Sample C	ontainer Preservation Lege	nd											
Abbreviati	on Description	Contai	ner Typ	be Pr	eservat	ive/Lim	its						2002
R	Raw/Nitric	RED		pН	must be	< 2							
В	Filtered/Sulfuric	BLUE		pН	pH must be < 2								
BK	Filtered/Nitric	BLACK		pН	pH must be < 2								
G Filtered/Nitric				pН	pH must be < 2								
O Raw/Sulfuric			θE	pН	pH must be < 2								
P Raw/NaOH			PURPLE			pH must be > 12 *							
Т	Raw/NaOH Zinc Acetate	TAN	TAN			pH must be > 12							
N.	Raw/Sulfuric	YELLOW			pH must be < 2								
.∕G	Raw/Sulfuric	YELLO	W GLAS	SS pH must be < 2									
N/A	No preservative needed	Not app	licable			-							
RAD	Gamma/Beta dose rate	mu	must be < 250 $\mu$ R/hr										

\* pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:

ACZ Labo	oratories, Inc.	20 <sup>20</sup>		ana de anti-	an a		CH,	AIN (	of Cl	JST	DDY
2773 Downhill Drive Steamboat S	orings, CO_80487_(800) 334-	-5493									
Report to:			1				- A	1	-1		, ,
Name: 13:114 Dorri	5	4							<u>Mine</u>	Rø	, 
Company: Phelps Dodge	<u>Sierrita</u>	-	<u>Green Valley, Az 85614</u> Telephone: 520 648 8873								
E-mail: Billy - Dorris	21-M2. Com		lieleb	none:	520	69	8 80	513			
Copy of Report to:											
Name:		-	E-ma	·	d-1-0-00		<i></i>				
Company:			Telep	hone:		· · · · · · · · · · · · · · · · · · ·					
Invoice to:				· · · · · ·							
Name:		_	Addre	ss:	M						
Company:		_	ļ								
E-mail:			Telep	hone:							
If sample(s) received past holdin analysis before expiration, shall If "NO" then ACZ will contact clie	ACZ proceed with requeste	d short H	IT analy	yses?					YES   NO		
is indicated, ACZ will proceed wi	th the requested analyses, o	even if K	T is exp	oired, ai	nd data	will be	qualifie	d.			
PROJECT INFORMATION			AN	ALYSE	S REQU	ESTED	(attach	list or i	use quo	te num	ber)
Quote #:		1	5								
Project/PO #:		_	iner								F
Reporting state for compliance	testing:	-	of Containers								
Sampler's Name:		4	ပိ								
Are any samples NRC licensab			*								
SAMPLE IDENTIFICATION	DATE:TIME	Matrix		<u> </u>	<u> </u>						
MH-15W	4-9-07 / 13:09	GW	2	<u> )                                    </u>							
<u>m-16</u>	4-10-07/10:20	GW	9	<u>//</u>	h	n.					
EQBOYIDOTA	4-10-07/14:45	GW	9	<b>}</b> /	#77	1510	<u>FNI</u>				
TB041007A	4-10-07/14:15	GW		╢			-				
BW-3	4-11-07/11:15	GW		<del> ) -</del>	pυ	¥-1-6	<b>P</b>				
PZ-3	4-11-07/9:42	GW	9	<u>{</u>							
· · · · · · · · · · · · · · · · · · ·			<u> </u>	-	+	ļ					
	Ground Water) · WW (Waste Wi		(Drinking	(Mater)	SL /Shin	001.80	(Sail) . OI		ther (Sne		
Matrix SW (Surface Water) · GW REMARKS			(Dunken)	( water)	35 (5100	ge) · 30	(301) • 01		ulei (Spe	icity)	
KEWIAKNO	<u></u>										
											ing gi ta si
	refer to ACZ's terms & con		ocated		_			OC.		المحتور المؤرفين	
RELINQUISHED BY			1	VIA	RECEI	VED B	ſ,	ł	DA		//E
tailly t. Com	0 4-11-07/	3:201	m	ЦХ	<u> </u>				<u>L[ .[</u>	<u>L11</u>	·
· · · · · · · · · · · · · · · · · · ·			<b> </b>							4:2	2

## **APPENDIX E**

## HYDRO GEO CHEM, INC. GROUNDWATER SAMPLING FORMS

	HYDI	RO 6	GEO CHE	-	ater Sampl	ing For	·m	5	5-623105	
								Well ID:	ESP-4	
	Project N	Jame/N	lumber: <b>PD S</b>	ierrita/78	<b>83000</b> Da	te: <u>3/2</u>	0/57	Sampler:	WWH/MA	
Total Well I Well Depth Casing Volu	("a", ft): _	194	le	Screened	Interval (ft) F	rom: N	$H_{to:}$	NA	pmpingutr.lu ("b", ft): <u>387-399</u> NOStaticu gal medeured	V/
424	p	PU	RGE INFO	RMATIO	ON AND FII	ELD ME	EASURF	EMENTS	Sturf 0830 Continuous fum	
Time Started	1 -11-2	0-1	630		npleted:		Tota	ll Purge Time:	Continuous tum	Ŷ
Purge Metho	od to	743	Encyvast 24121071	<b>P</b> ump Sett	ing:/	<b>I</b> A	Tota	l Purge Volume	: Notmeasure	ł
Clock Tirr (Hrs:Min		emp °C)	E.C. (μS/cm)	рН	Turbidity (qualitative)	Odor o Sheen	1	Note	es	
1130	26	5.7	1187	7.67						
		S.	AMPLING	INFORM	AATION AN	ND SAM	PLE RI	ECORD		
Time Started	d:[:	30		ompleted: _	1135		Sampling	Method: from	spigot (nearest wellher	ad)
Sample	No.	Гime	Container Type	Volume	No. of Containers	Analysis		Preservative	Ka <sup>41</sup> Notes	
ESP		130	Plastic	250/100,00	32	300.0/	900.7	Nerve Hett	INO3 Filtered	, IL IN
GW-6	23105		2007	250ml	Ka \$44240				Rand	App
GW-4231		35	Mastic	Zoom		300.	0	None	Kaw '	
0324	00.1		QUAL	ITY CO	NTROL SA	MPLE F	RECOR	D		7
Orig. San	nple No.	QC	Sample Type	QC	Sample No.	Time	Analy	sis Method	Notes	
										]

HYDRO GEO CHEM, INC.										
Groundwater Sampling Form										
						W	ell No: <u>GW-603</u> 4	428-041007		
Well Name: <u>GV-01-GVDWID</u>										
Project Name/Number: SIERRITA GW MONITORING (78306.2) Date: 4/10/2007										
Recorder/Sampler: KG										
WELL INFORMATION										
Total Well Depth (ft): <u>645</u>										
Casing Diameter	- ("d", in.)	): <u>16"</u>		Scr	eened In	nterval (ft)	): From:/	_ To:		
Well/Packer Dep		,		-			ft): W_@1220 218			
One Wetted Cas	ing Volu	me: (a-b	o)•d2•0.04	408 =		_ Gallon	s, (3 Casing Volu	mes <mark>1337(,.54</mark> gal)		
	<u>PU</u>	IRGE INF	ORMATIO	<u>N AN</u>	D FIELD	MEASU	REMENTS			
Time Started:	NA		Time Comp	leted:	<u> </u>	<u>IA</u>	Total Purge Tim	ne: <u>NA</u> min		
Purge Method:	NA		Pump Settir	ng (de	epth):	/	Total Purge Vol	ume: <u>NA</u> gal		
Actual or Extraction Elapsed Rate/Vol Time (Min) (gpm)	Temp (°C / °F)	Conductivi (mhos/cm		Othe	er D.C (mg/			Notes		
0935 718	27.2	421	7.69				Wellwasru	ningupon		
							runs contin	Nett; Nell		
							GVDMDinto			
							<b>4</b>			
								AM		
							-well timedo	te offstor nte bropm.		
Avgflowatio	nell, <u>s</u>				N AND S	SAMPLE	RECORD			
Time Started:	118 0	935	Time Comp	leted:	0935	2				
Sampling Metho	d, Type o	of Sampli	ng Pump or	Baile	er: Samp	h Collet	ed fromspigota	Evellnead		
Sample No.	Time C	ontainer	Volume	1	No. of	Analysis		Notes		
GW-603428-041007	A76	Type PLASTIC	125 mL/250 ml		ontainers 2	Method 300.1/200		FILTERED		
		PLASTIC	250 mL		1	300.0	NONE	RAW		
ت			ALITY CON	TROL				ח		
	Orig. Sar	mple No.	Туре		QC San	nple No.	Time			

<b>H</b>	HYDRO GEO CHEM, INC.									
6	Froundv	vater .	Sampling I	Form						
in a support							W	ell No: <u>GW-603</u> 4	429-041007	
							Well I	Name: <u>GV-02-G</u>	VDWID	
Project I	Name/N	umber	: SIERRIT	A GW MONI	TOR	ING (783	06.2)	Date: 4/	10/2007	
-								der/Sampler: K	3	
				WELL	INFO	ORMATI	NC			
Total W	ell Depth	ר (ft):	560	)						
Casing I	Diamete	r ("d",	in.): <u>16</u> '	9	Scr	eened In	iterval (ft)	: From:	To:	
Well/Pa	Well/Packer Depth ("a", ft): <u>NA</u> Depth to Water ("b", ft): <u>W-@1115 =187.10</u>									
One Wetted Casing Volume: (a-b) • d2 • 0.0408 = 3594.67 Gallons, (3 Casing Volumes Wor4. (a) Gallons										
	PURGE INFORMATION AND FIELD MEASUREMENTS Calc purgetime= 1605m									
Time Sta	Time Started: 1137 Time Completed: 1156 Total Purge Time: 116 min									
Purge Method: Chischword to Sydem Pump Setting (depth): / Total Purge Volume: "										
Actual or     Extraction     Temp     Conductivity     pH     Other     D.O.     Odor     Notes										
Elapsed Time (Min)	Rate/Vol (gpm)					(mg/	L)			
1138	M28 728	24	8	M.60 7.59						
1140	728	24		7.60						
1155	728	24	· •	7.60						
								welltymed	Qx-Q~850MM	
									screment@	
								IllisAM	1.	
		11~		IG INFORMA		• -		RECORD		
Time Sta		_115		Time Comp						
Samplin	g Metho	od, Typ	be of Sampl	ing Pump or	Baile	er:Samp	lecolkete	d-P. Spigotnea	restwellhead	
Sample	No.	Time	Container	Volume	1	No. of ontainers	Analysis Method		Notes	
GW-603429	-041007	1156	Type PLASTIC	125 mL/250 mL		2	300.1/200.		FILTERED	
GW-603429	011007	1156	PLASTIC	250 mL		1	300.0	NONE	RAW	
L <u>,</u>	<u>l</u> .		QU		rroi	SAMPL	E RECO			
		Orig.	Sample No.	Туре		QC Sar	nple No.	Time		

H:\Field Forms\GWSampling.doc

B	IYDR	O GEO	CHEN	<b>A</b> , ]	INC.								anna su anna ann an anna ann an ann ann ann an
G	Groundw	vater Sa	mpling 1	rori	m								
										We	ell N	o: <u>GW-208</u>	825-041007
											W	ell Name: <u>S</u>	I-WELL
Project N	Name/Ni	umber:	SIERRIT	<u> </u>	<u>W MONI</u>	TOR	ING	6 (783	806.	.2)		Date: 4	/10/2007
										Record	ler/	Sampler: <u>K</u>	G
					<u>WELL</u>	INFO	ORI	MATIO	<u> </u>				
Total We	ell Depth	n (ft):	<u>650</u>	)									
Casing [	Diamete	r ("d", in.	): <u>16"</u>										To:
Well/Pac	•	•	,									101015 2	
One We	One Wetted Casing Volume: (a-b) • d2 • 0.0408 = 4291.51 Gallons, (3 Casing Volumes 1292.54 gal)												
PURGE INFORMATION AND FIELD MEASUREMENTS Calculture													
Time Started: 1025 Time Completed: 1040 Total Purge Time: <u>15</u> min													
Purge M	lethod:	lisch.to	system	Pur	np Settir	ng (de	epth	ı):		******	Tot	al Purge Vo	lume: <u>~12875</u> ga
Actual or Elapsed Time (Min)	Extraction Rate/Vol (gpm)	Temp (°C / °F)	Conductiv (mhos/cr		pН	Oth	er	D.C (mg/		Odor			Notes
1035	855	27.2	348		748								
1037 1038	860 859	27.0	2/18 2/1		7.50								
		AUN	ove i		1.00								
		S		G II	NFORMA		N A		SAN	I IPLE F	REC	ORD	
Time Sta	arted:	1041	-		ne Comp			1041	•			*********	spijote
Samplin	g Metho	d, Type	of Sampl	ing	Pump or	Baile	er: (	lisch	ag	e divi	rte	d viagander	hose from head
Sample	e No.	Time C	Container		Volume		No.			Analysis		Preservative	Notes
GW-208825		WIU	Type PLASTIC	12	5 mL/250 mL		2	iners		Method 00.1/200.7		NONE/HNO3	FILTERED
GW-208825	-041007	1040	PLASTIC		250 mL		1			300.0		NONE	RAW
							i						
	r			ALI'	TY CON	rROI					RD		
	Orig. Sample No. Type QC Sample No. Time												

I

HYDRO GEO CHEM, INC.											
	Ground	water S	ampling Fo	orm							
$\bigcirc$							We	II No: <u>GW-5158</u>	67-041007		
								ame: <u>HAVEN (</u>			
Project I	Name/N	lumber:	SIERRITA	GW MON	TORIN	G (7830					
					·				- IARK ARNESON		
				WELL	INFOR	MATIO		'			
Total W	ell Depti	h ("a", ft	):5	00							
Casing I	Diamete	er ("d", ir	n.):1	4"	Scree	ned Inte	erval (ft)	): From: <u>NA</u>	To: NA		
Well/Pa	cker De	pth ("a",	ft): <u>NA</u>					ft): <u>[ADWR E</u>			
One Wetted Casing Volume: (a-b) • d2 • 0.0408 = $2718.912$ Gallons, (3 Casing Volumes <u>815(.74 gal</u> )											
PURGE INFORMATION AND FIELD MEASUREMENTS No Purge Necessary Time Started: Well running won Time Completed: NA Total Purge Time: NA min											
Purge Method: Unival Pump Setting (depth): NA Total Purge Volume: NA gal											
Actual or Elapsed Time (Min)	Actual or Elapsed     Extraction Rate/Vol     Temp (°C / °F)     Conductivity (mhos/cm)     pH     Other     D.O. (mg/L)     Odor     Notes										
0900	1000			7,26			Non	a water is	dear		
9:05		23.2		<u> 7.27</u>							
9:10		23.3	655	7.28				3			
9;20	V	23.3	655	7.26		-					
			SAMPLING	INFORM	ATION A	AND SA	MPLE	RECORD	• T		
Time Sta		9:2		ime Comp					alloowadape		
Samplin	g Metho	d, Type	of Sampling	g Pump or	Bailer:	ded ice	yed p	amp. Sample	dl. from 1 on discus		
Sampl	e No.	Time	Container	Volume		lo. of	Analys	sis Preservativ	coll from A on dischar Notes		
GW-51586	7-041607	9:27	Type PLASTIC	125 mL/250 i		ntainers 2	Metho 300.1/20	00.7 NONE/HNO3	FILTERED		
GW-51586	7-041607	9:27	PLASTIC	250 mL		1	300.0	) NONE	RAW		
						······································					
			QUAL	ITY CON	<b>TROL S</b>	AMPLE	RECO	RD			
		Orig. Sa	ample No.	Туре		C Samp	le No.	Time	]		
								·····	-		
									-		

H:\78300\DATA\FIELD DATA\2007-Q2\HAVEN & CCOFGV 04-16-2007\HAVEN GOLF.doc

HYDR	O GE	O CHEN	I, INC.							
Groundv	vater S	ampling F	orm							
					Well No	): <u>GW-50176</u>	0-041007			
						CC OF GV				
Project Name/N	umber:	SIERRITA	GW MONIT	ORING (7830						
	_						ARK ARNESON			
			WELL IN	FORMATIO		, . <b>I</b> <u>entation</u>				
Total Well Depth	n ("a", ft	):8	355							
Casing Diamete	Casing Diameter ("d", in.): <u>16</u> Screened Interval (ft): From: <u>NA</u> To: <u>NA</u>									
Well/Packer Depth ("a", ft):       NA       Depth to Water ("b", ft): $\underline{NA}$										
One Wetted Cas	One Wetted Casing Volume: (a-b) • d2 • 0.0408 = $62.75$ Gallons, (3 Casing Volumes 18826 gal)									
			ORMATION /							
Time Started:	11:					tal Purge Tim	e: 25 min			
Time Started: <u>II:15</u> Time Completed: <u>II:15</u> Total Purge Time: <u>A5</u> min Purge Method: <u>To iv righthon Subscip</u> ump Setting (depth): <u>NA</u> Total Purge Volume: <u>22500</u> gal										
Actual or Extraction Temp Conductivity pH Other D.O. Odor Notes										
Time (Min) (gpm)										
11:23 900	23.5		7.42							
11:27 900	22.6		7.44							
11:32 900	22.5	764	17.44							
11337 900	22.6	767	7.44							
						CORD				
Time Started:	11:4		ime Complet		ATT And Anna & E Anna A					
Sampling Metho				$\wedge$	spigot n	covert they	rellhoad			
Sample No.	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservativ	Notes			
GW-501760-041607	11:40	PLASTIC	125 mL/250 mL	2	300.1/200.7	NONE/HNO3	FILTERED			
GW-501760-041607	11:40	PLASTIC	250 mL	1	300.0	NONE	RAW			
		·····								
			LITY CONTR	OL SAMPLE	RECORD					
	Orig. S	ample No.	Туре	QC Samp	le No.	Time				
.)										

H:\78300\DATA\FIELD DATA\2007-Q2\HAVEN & CCOFGV 04-16-2007\CC OF GV.doc

Groundw	ater San	nnling F	orm						
<b>T</b> Orounuw	uier Sum	ipung P	01111			Well N	lo: C	GW-623104	4-051407
					W			ESP-3	
Project Name/Nu	mber: S	IERRITA		FORING				Date:	05 / 14 /200
10,000 110,110							der/S	ampler: <u>k</u>	
			WELL	INFOR					
otal Well Depth	("a", ft):		1043			-			
Casing Diameter			16	Screer	ned Inte	rval (ft)	: Fro	om: <u>NA</u>	To: <u>NA</u>
Vell/Packer Dep				Depth	to Wate	er ("b", f	t): [AD	WR = 338]	355,85
•	. ,		o) • d2 • 0.04					Casing Vol	lumes <u>21531</u> g
			ORMATION						le projetime =
ime Started:	15:17	2	Time Compl					al Purge Ti	me: <u>17</u> n
Purge Method:	DWast	<u>'</u>	Pump Settin	g (deptł	n)::		Tota	al Purge Vo	olume: <u>22100</u>
Actual or Extraction	Temp	Conductivi		Other	D.O. (mg/L)	Odor			Notes
Elapsed Rate/Vol Time (Min) (gpm)	(°C / °F)	(mhos/cm			(1119/12)		<u></u> \/	enided	1 uppninitial di
15:32 1300	28.4 28.6	374	7.98					Juli	Jupor Maria and
15:37	28.8	3'74	9.92						
5:40 -	28.8	374							
	<u>S</u> ,		G INFORM		1.1.4		REC	ORD	
Time Started:	15:40		Time Comp		1540		00-	· + + · · · 0/	
Sampling Metho	d, Type c	of Sampli							
Sample No.	Time	Container Type	Volume		lo. of ntainers	Analy Meth		Preservativ	
FGW-623104-051407 UGW-623104-051407	15HD	PLASTIC PLASTIC	250 mL 250 mL		1	300. 300.		NONE	FILTERED
0000-023104-031407	1540								
		QU				ERECO	ORD		
	Orig. Sar		Туре		QC Samp			Time	
		11 1 m 1		- KG				1510	
	where	21407A	<b>B</b> plicate		28-W			<u>1040</u>	_Raw
H:\78300\DATA\FIELD [	EWO514	07A	Equip man	TIDULE	Q05141	JA		520	
			Budicat	and opposite the second se	ESP-	<b>っ</b>		540	[filtered]

HYDRO	O GEC	) CHEM	, INC.				
Groundw	vater Sa	mpling Fe	orm				
					Well No:	<u>GW-623103-0</u>	051407
				W	ell Name:	ESP-2	
roject Name/N	umber:	SIERRITA	GW MONITO	RING (7830	6.2)	Date:	05 / 14 /2007
,		<u>,</u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		r/Sampler: KG	/JSV
			WELL IN	FORMATIO			
otal Well Depth	n ("a", ft)	:	1044	÷			
asing Diamete	r ("d", in	.):	<u>16</u> S	creened Inte	erval (ft): F	From: <u>NA</u>	To: <u>NA</u>
/ell/Packer Der	oth ("a",	ft): NA	D	epth to Wate	ər ("b", ft):	[ADWR = 364] 3	39.9
•	•	,		1004		(3 Casing Volur	
				**	98 - C	MENTS CALC	
ime Started:	1447	2	ime Complete	1rat		otal Purge Time	00
	Folia		•		•	•	· · · · ·
urge Method:	,		Pump Setting (			otal Purge Volu	1
Actual or Extraction Elapsed Rate/Vol		Conductivit (mhos/cm)	/ / /	Other D.O. (mg/L)	Odor	N	otes
ime (Min) (gpm) W11 1900	29.3	378	7.62			muchsedmer	thensturbid
1453 1	25.3	373	M.84			yponinital	Start 40
1469	27.9	370	7.87				
15:03 V	27.8	368	7.86				
				ION AND SA			
ime Started:		F <sup>200</sup>	ime Complete	15			
ampling Metho	A		•	-	1	ollhoad -	
Sample No.	Time	Container	Volume	No. of	Analysis	Preservative	Notes
	Time	Туре		Containers	Method		
GW-623103-051407	1505	PLASTIC PLASTIC	250 mL	1	300.0 300.0	NONE	FILTERED
	1505	FLASTIC	250 mL		300.0		
		QUA	LITY CONTR	OL SAMPLE	ERECOR	D	
	Orig. S	ample No.	Туре	QC Samp	ble No.	Time	
				· ·			

H	HYDRO GEO CHEM, INC.									
G	roundw	ater Sa	mpling Fo	rm						
							Well I	No:	<u>GW-623102-0</u>	51407
						W	ell Nan	ne:	ESP-1	
Project N	Name/Nu	umber:_	SIERRITA (	GW MONI	TORI	NG (7830	5.2)		Date:	05 / 14 /2007
							Recor	der/	Sampler: <u>KG/</u>	JSV
				WELL	INFO	RMATIO	N			
Total We	Total Well Depth ("a", ft): 1020									
Casing Diameter ("d", in.): <u>16</u> Screened Interval (ft): From: <u>NA</u> To: <u>NA</u>										
Well/Packer Depth ("a", ft): <u>NA</u> Depth to Water ("b", ft): [ADWR = 333] MM										
One We	tted Cas								Casing Volum	
	PURGE INFORMATION AND FIELD MEASUREMENTS Calc program=21.5M									
Time Started: 1352:00 pmg Time Completed: 420 Total Purge Time: 22 min										
Purge M	Purge Method: DWaste Pump Setting (depth): M Total Purge Volume: 22000 gal									
Actual or Elapsed Time (Min)	lapsed Rate/Vol (°C / °F) (mhos/cm) (mg/L)									
2:06 pm		29.7	581	7.64			_	1	lery turbid	/ Much sediment
2:12		28.8	<u>582</u> 574	7.70					nlager -	
14-18		28.7	585	7.71					AUIA	
1420		7.36	592	7.70						
		1								
		NIn				1.1.0		RE(	CORD	
Time Sta		142		ime Comp			0	1		_ 1
Samplin	g Metho	d, Type	of Samplin	g Pump or	Baile	r: <u>†1911</u>	, sprg	QC	@ wellhe	BB
Sampl	le No.	Time	Container Type	Volume		No. of Containers	Analy Meth		Preservative	Notes
FGW-6231		1420	PLASTIC	250 mL		1	300.	0	NONE	FILTERED
UGW-6231	02-051407	1420	PLASTIC	250 mL		1	300.	0	NONE	UNFILTERED
QUALITY CONTROL SAMPLE RECORD										
		Orig. Sa	ample No.	Туре		QC Samp	le No.		Time	

HYDR	O GEO	) CHEN	I, INC.						
Ground	water Sc	empling H	form						
					Well N	No: <u>GW-627485-0</u>	051407		
				W	/ell Nan	ne: <u>CW-6</u>			
Project Name/N	lumber:_	SIERRITA	GW MONI	TORING (7830	<u>6.2)</u>	Date:	05 / 14 /2007		
					Recor	der/Sampler: <u>KG</u>	/JSV		
			WELL	INFORMATIO	N				
Total Well Dept	h ("a", ft)	• •	840						
Casing Diamete	er ("d", in	.):	16	Screened Inte	erval (ft)	: From: <u>NA</u>	To: <u>NA</u>		
Well/Packer Depth ("a", ft): NA Depth to Water ("b", ft): [Q1GWM = 245]									
One Wetted Ca	sing Vol	ume: (a-t	o) • d2 • 0.04	108 = <u>6214.66</u>	Gallon	s, (3 Casing Volun	nes <u>18(143.97</u> gal)		
	ul P	URGE INF	ORMATION	N AND FIELD I	MEASU	REMENTS			
Time Started: 🖁	noval e	on pridy to	Time Compl	leted: 1330	)	Total Purge Time	e: <u>4.6</u> min		
Purge Method:	Purge Method: DSystem Pump Setting (depth): NA Total Purge Volume:gal								
Elapsed Rate/Vo	Elapsed Rate/Vol (°C / °F) (mhos/cm) (mg/L)								
Time (Min) (gpm)	well runninguoonamiral,								
1:19 700	29.4		512 7.6		)		JP ···		
1:22	26.6	509	7.58						
1.24	26.2	508 507	7.59						
1.60	26.1	307	1.50						
				ATION AND SA		BECOBD			
Time Started:			Time Comp	10.0					
	<u> :30</u> od Type	1			0	nearest well	head		
Sample No.	Time	Container			Analy		Notes		
		Туре		Containers	Meth	od	FILTERED		
FGW-627485-051407 UGW-627485-051407	1000	PLASTIC PLASTIC	250 mL 250 mL	1	300. 300.		UNFILTERED		
	1330								
QUALITY CONTROL SAMPLE RECORD									
	Orig. S	ample No.	Туре	QC Samj	ole No.	Time			

HYDR	O GEO	O CHEN	A, INC.							
Ground	water So	ampling I	Form							
						Well No	: <u>GW-207982-0</u>	051407		
					We	ell Name:	CW-10			
Project Name/N	lumber:_	SIERRIT	A GW MONI	TORING	(78306	.2)	Date:	05 / 14 /2007		
					Ŕ,	Recorde	r/Sampler: <u>KG</u>	/JSV		
			WELL	INFORM	MATION					
Total Well Dept	th ("a", ft)	:	1140							
Casing Diameter	ər ("d", in	.):	16	Screen	ned Inter	val (ft):	From: <u>NA</u>	To: <u>NA</u>		
Well/Packer De	epth ("a",	ft): <u>NA</u>		Depth	to Wate	r ("b", ft):	[ <u>Q1GWM = 177.20]</u>	MM		
One Wetted Ca								nes <u>30168.76</u> gal)		
NA0	00 L rop	URGE INI	ORMATIO	N AND F	IELD M	EASURE	EMENTS Calc	= 15.1  M		
Time Started:	mivale	well	<mark>FORMATIO</mark> I ้าง Time Comp	leted:	1245	T	otal Purge Time	e: <u>15.1</u> min		
Purge Method:	1		Pump Settir				otal Purge Volu	me: <u>NM g</u> a		
Time (Min) (gpm)	<u> </u>									
12:40	31.6									
12:42	31.3	396	7.79							
12:44	31.3	392	7.81							
Time Started:	12:	_	Time Comp							
Sampling Meth			•		From	Sazut	Thearest we	ll had		
Sample No.	Time	Container			o. of	Analysis	Preservative	Notes		
FGW-207982-051407		Type PLASTIC	250 mL		tainers	Method 300.0	NONE	FILTERED		
UGW-207982-051407	1 aug	PLASTIC	250 mL		1	300.0	NONE	UNFILTERED		
	10175									
·										
	ļ	QU				RECOR	 D			
	Oria S	ample No.	Туре		C Sample		Time			
			. ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							

HYDRO GEO CHEM, INC.										
Groundw	vater Sa	mpling Fo	rm							
					Well No	: <u>GW-588121-0</u>	051407			
				W	/ell Name	: <u>CW-9</u>				
Project Name/N	umber:	SIERRITA	GW MONITC	RING (7830	6.2)	Date:	05 / 14 /2007			
					Recorde	er/Sampler: <u>KG</u>	/JSV			
			WELL IN	FORMATIO	N					
Total Well Depth	ı ("a", ft):	1	000							
Casing Diameter	r ("d", in.	):	20 5	Screened Inte	erval (ft):	From: <u>NA</u>	To: <u>NA</u>			
Well/Packer Dep	oth ("a", f	t): <u>NA</u>	E	Depth to Wat	er ("b", ft)	[Q1GWM = 304.20]	NM			
One Wetted Casing Volume: $(a-b) \cdot d2 \cdot 0.0408 = 11355.5$ Gallons, (3 Casing Volumes 34066 gal)										
well	triel	JRGE INFO	DRMATION /	AND FIELD I	MEASUR	EMENTS Calc	.11.36M			
Well fund on and FIELD MEASUREMENTS Calcoll. 34M Time Started: 1110 Tranial Time Completed: 120 Total Purge Time: 22 min										
Purge Method: To System, Pump Setting (depth): NA Total Purge Volume: MM gal										
Actual or Extraction Elapsed Rate/Vol Time (Min) (gpm)	Elapsed Rate/Vol (°C / °F) (mhos/cm) (mg/L)									
11:55 1000	28.5		7.68		2 - 00	A Stationed and the second	1 amilal			
11:57	28.Z 28.0	416	7.73	< foran	PETERS (	Neclea from	-4401			
11:59	27.9	416	9.75		II WIN C	Alger 1				
12:00 1691	nya	1111	- mmik	0		+ - · · · · · · · · · · · · · · · · · ·				
12-01 1000	275	- 414	7.74	- Grow	spige	te vellheag	V			
·····										
						FCORD				
Time Started:	12400	\ \	ime Complet	10.	~					
Sampling Metho			•	<u> </u>		t@ wellned	ad,			
Sample No.	Time	Container	Volume	No. of	Analysis		Notes			
FGW-588121-051407		Type PLASTIC	250 mL	Containers	Method 300.0		FILTERED			
UGW-588121-051407	1200	PLASTIC	250 mL	1	300.0	NONE	UNFILTERED			
QUALITY CONTROL SAMPLE RECORD										
Orig. Sample No. Type QC Sample No. Time										

HYDRO GEO G	CHEM, I	NC.								
Groundwater Sam	pling Form	ł								
				Well No:	<u>GW-543600-0</u>	51407				
			W	ell Name:	CW-8					
Project Name/Number: SI	ERRITA GW		RING (7830)	<u>5.2)</u>	Date:	05 / 14 /2007				
				Recorde	r/Sampler: <u>KG/</u>	JSV				
		WELL INF		<u>v</u>						
Total Well Depth ("a", ft):	120	0								
Casing Diameter ("d", in.):	24	<u> </u>	creened Inte	rval (ft): I	=rom: <u>NA</u>	To: <u>NA</u>				
Well/Packer Depth ("a", ft):	: <u>N</u> A	D	epth to Wate	er ("b", ft):	[Q1GWM = 336.50]	NM				
One Wetted Casing Volum	ne: (a-b) • d	2 • 0.0408	20293	Gallons,	(3 Casing Volum	nes <u>60878</u> 7gal)				
PUR		MATION A	ND FIELD N	IEASURE	MENTS Calc	= 32. Dm & q5/17/0;				
Time Started: . 1034		e Complete			otal Purge Time					
Purge Method: 2 Sustem Ka Pump Setting (depth): NA Total Purge Volume: 10,302 gal										
Actual or Extraction Temp Conductivity pH Other D.O. Odor Notes										
Elapsed     Rate/Vol     (°C / °F)     (mhos/cm)     (mg/L)       Time (Min)     (gpm)     Image: Constraint of the second sec										
10:42 1900 25-17 386 8.16 Water tos sectiment.										
10:52 28.0 10:59 28.5	<u>386</u> 1388	7.72			The bacama	F Porying				
11:00 29.3	1389	7.71								
11:05 29.4	1384	7.70			discharge to	wash bohind				
11:10 ¥ 29.4	1379	7.69			well Howas	TC				
1311	MPLING IN		1111	MPLE RE	CORD					
Time Started:		e Complete		town	ellhoad					
Sampling Method, Type of	Sampling P		<u> </u>	4	arriva.					
Sample No. Time C	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes				
	PLASTIC	250 mL	1	300.0	NONE	FILTERED				
UGW-543600-051407	UGW-543600-051407 1 PLASTIC 250 mL 1 300.0 NONE UNFILTERED									
	QUALIT	Y CONTRO	DL SAMPLE	RECOR	<u>D</u>					
Orig. Sam	ple No.	Туре	QC Samp	le No.	Time					

1

HYDRO GEO CHEM, INC.										
Groundwater Sampling Fo	orm									
		Well	No: <u>GW-502546-0</u>	051407						
		Well Na	ime: CW-7							
Project Name/Number: SIERRITA	GW MONITOR	RING (78306.2)	Date:	05 / 14 /2007						
			order/Sampler: KG	/JSV						
WELL INFORMATION										
Total Well Depth ("a" ft):	Total Well Depth ("a", ft): <u>1065</u>									
Casing Diameter ("d", in.): <u>16</u> Screened Interval (ft): From: <u>NA</u> To: <u>NA</u>										
Well/Packer Depth ("a", ft): <u>NA</u> Depth to Water ("b", ft): $\underline{[Q1GWM = 425]}$ (A.b.) $\underline{[Q1GWM = 425]}$ (a-b) $\underline{[Q1GWM = 425]}$ (b) $\underline{[Q1GWM = 425]}$ (c) $\underline{[Q1GWM = 425]}$										
		•		0-						
			UREMENTS (alc =	N 0						
Time Started: <u>0947</u> Time Completed: <u>1007</u> Total Purge Time: <u>90</u> min Purge Method: <u>1648time</u> To Worker Setting (depth): <u>NA</u> Total Purge Volume: <u>24,000</u> gal										
Purge Method			Total Purge Volu	•						
Actual or         Extraction         Temp         Conductivit           Elapsed         Rate/Vol         (°C / °F)         (mhos/cm)	/ pH O	other D.O. Oc (mg/L)	dor N	otes						
Time (Min) (gpm) 0949 1200 27.4 1453	7.34		brown/man	is wist where d.						
9950 1200 27.4 1850	7.40		dear							
0954 27.4 1913	7.44									
10:00 27.4 1849	7.43		This water	is discharged						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	7.40		in to a concre bahind that	14-1						
SAMPLING			E RECORD							
A AM	ime Complete	ood								
Sampling Method, Type of Samplir			ot @ wellhoad							
Sample No. Time Container	Volume		lysis Preservative	Notes						
Туре		Containers Met	thod							
FGW-502546-051407 1007 PLASTIC	250 mL 250 mL		0.0 NONE	FILTERED						
UGW-502546-051407	250 IIIL		NONE							
	LITY CONTRO	OL SAMPLE REC	ORD							
Orig. Sample No. Type QC Sample No. Time										
Travel Blank -	Travel Blank TR TROSHOTA. 1000									

H	IYDRC	) GEO	CHEM	, INC.	ganisimi seminist				
G	roundw	ater San	npling Fa	orm					
							Well No:	: <u>GW-627483-</u>	051407
						V	/ell Name:	CW-3	
Project N	Name/Nu	mber: <u>S</u>		<u>GW MONI</u>	TORIN	<u>IG (7830</u>	<u>6.2)</u>	Date: (14)	105-1-14-12007 5/17
							Recorde	r/Sampler:	ASV MA
				WELL		RMATIO	N		
Total We	ell Depth	("a", ft):		501					
Casing [	Diameter	("d", in.)		16	Scre	ened Inte	erval (ft): 1	From: <u>NA</u>	To: <u>NA</u>
Well/Pac	ker Dep	th ("a", ft	): <u>NA</u>		Dept	h to Wat	er ("b", ft):	[ADWR = 260]	55,35
		•		• d2 • 0.04					mes <u>73%4</u> gal)
				ORMATIO					
Time Sta	arted:	0650	<u>&gt;</u> Т	ime Comp	leted:	ZYK (	<u>975</u> 0 т	otal Purge Tim	e: <u>60</u> min
Purge M	lethod:	rundfos	P	ump Settir	ng (dep	oth): <u>3€</u>	<u>\$З`</u> т	otal Purge Volu	ume: <u>9200</u> gal
Actual or Elapsed	Extraction Rate/Vol	Temp (°C / °F)	Conductivity (mhos/cm)	рН	Other	(ma/L)	Odor	N	lotes
Time (Min)	(gpm) 150	24.8	494	7.40	9.99	¥	None	r lear	
0700		25,3	453	7190	9.52	· · · · · · · · · · · · · · · · · · ·	Trans	<u> 1000</u>	<u></u>
0715	150	25.2	448	7.23	8.34				
·0725	150	25.3	449	7.72	0.00			Turb reading u	as done tudie to cast
0740	150	25.3	448	7.74	3.19	7		y y	
0745	150	75.3	449	7.74	0.00	2		1	
									· · · · · · · · · · · · · · · · · · ·
······································									
	1	S	AMPLING	INFORM		AND SA		ECORD	
Time Sta	arted:	075	හ <u> </u>	ime Comp	leted:	075	3		
Samplin	a Methoo	d. Type o		g Pump or					
Samp		Time	Container Type	Volume		No. of ontainers	Analysis Method	Preservative	Notes
16-627	142.01.015	0740	6 Juis	11	<u>``</u>	/	1664	kle1	Oil/Grease
46-627	•	{	Poly	250		1	67 167 /	Raw	SOY
F6W-627		1	poly	230		)		HNO3	Metals IF Hered
F6W-6274		1 1	Poly	250		1		None	Anions F. Hered
		<u> </u>	QUA		TROL	SAMPLE		D	<u></u>
	ſ	Orig. Sai		Туре		QC Samp		Time	
··	-				The second secon				
			********						
H:\78300\DA	ATA\FIELD D	ATA\GWSar	nplingForm.doc	;					

HYDRO	O GEO	CHEM,	INC.				napaternine and taxing a first state of the
Groundw	vater San	ipling For	rm				
Project Name/N					/ell Name: <u>6.2)</u>	<u>GW-605898</u> <u>CW-2/NP-2</u> Date: //Sampler: 4	
			WELL INF			······	<u></u>
Total Well Depth	) ("a", ft):	5	15				
Casing Diamete	<b>`</b>			creened Inte	erval (ft): F	rom: NA	To: NA
Well/Packer Dep	. ,					[ADWR = 314]	· APReser 1
							umes <u>2891</u> gal)
	-		RMATION A	r			unstrajunju V /
Time Started:	140		me Complete	1 4 4		otal Purge Tin	ne: <u>45</u> min
Purge Method:	Grundfor	<u>pump</u> Pl	ump Setting (o	depth): <u>446</u>	<u>5                                    </u>	otal Purge Vo	lume: <u>4500 g</u> al
Actual or Elapsed Time (Min) (gpm) 1410 120 1412 100 1426 100 1438 100 1445 100 1445 100	(°C/°F) 25.6 25.7 25.9 25.9 26.0 2.5.9	Conductivity (mhos/cm) 390 405 413 410 408 411 408 411	7.80 7.70 10 7.75 7. 7.75 2.	ther D.O. (mg/L) 279 200 5.5 7 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4 2,4	Odor Slight None None None None	rusty Some what Milky More Ilea Fairly clea	Notes <i>clear</i> <i>clear</i> <i>clairiution</i>
Time Started:	1455	~	me Complete	111	R R		
Sampling Metho		*******	•	~	al Gos		
Sample No.			Volume	No. of Containers	Analysis Method	Preservativ e	Notes
UF-605898-0604		Perfort	250ml	1	504	None	T.L.
F6W-605878-0604		poly poly	<u>150 m</u> ]		Hniows Metals	HNO.	Filtered Filtered
UF-605 898-060407		61053	12	1	Oil Brase	1114	unt: bered
			ITY CONTRO				·
	Orig. Sar		Туре	QC Samp		Time	
H:\78300\DATA\FIELD	DATA\GWSar	nplingForm.doc		<u>,,</u>	L		1222 1222

Charles	Lucian Carrie							
Ground	łwater Samp	oung roi	m				7	LA DEC
	$\wedge$		A. A.	-1	Maga	1	Well No.: /	
Project Name/	Number: <u>)</u>	enites	NW MOR	utoniq	1830	6.L	Date: <u>6</u>	-19-07
				V	F	Recorde	er/Sampler: 🔟	MA.
			WELL	INFORM/	ATION			1
Total Well Dep	oth (ft):	450	1					
Casing Diamer	er ("d", in.):	10	)	Screene	d Inter	/al (ft):	From:	To:
Well/Packer D	. ,		/				432.50	
	· · ·		42.004				· · · · ·	mes <u>330</u> gal
One watted C								mes <u>330</u> gal
				NAND FIE				<u> </u>
Time Started:	1005			eted:			otal Purge Tim	
Purge Method	grandfos	Pu	imp Settir	ig (depth):	4,44	Ţ	otal Purge Volu	ume: <u>240   </u>
Actual or Extracti Elapsed Rate/v	1	Conductivity (mhos/cm)	рН	Other	D.O. (mg/L)	Odor	ľ	Notes
Time (Min) (gpm	)			turbiding	(IIIg/=)	A 1		
1070 Z 1040 7	<u> </u>	<u>342</u> 352	1.83	33.77 81.00		None	slightly muc	11
1100 2	29.6	350	7.78	41,92		-11	Kas very slight	c/some ser imeno
1125 2	29,8	349	7.72	6.31		1/	c/ear	Sibur Lote
1740 2 1700 2	29.7	352	7.79	0,00	••••	<u>11</u> ]7	clear	
1200 Z	29,9	<u>352</u> 351	1.11	0.00	·····		c/ear c/car	
		<u> </u>	1113	0,00			Cita/	
	<u>SA</u>			ATION AN		<u>IPLE R</u>	ECORD	
Time Started:	1230		me Comp	leted: <u>[</u>	<u> &lt;32</u>		. B	
Sampling Meth	nod, Type of	Sampling	Pump or	Bailer:	Pun	p/d	ischarged +	DGCSUMACE
Sample No.	Time Contai	ner Type	Volume	No. of		nalysis	Preservative	Notes
TMM-1 1-	1251	repositio	-125		27	lethod	I-11V03	
	230 250m	· · · · · ·	<u>25D</u>	2		<u>. 0</u>	none	_burred
	230 25	Dml plasti	_ 250_	<u> </u>		50.0	nonel	Unfiltered C
								V
		QUAL		TROL SA	MPLE	RECOR	D	
	Orig. Samp							
	ung. uairt	10 I VO.	i Ahe	1 40	QC Sample No.		Time	

H:\Field Forms\GWSampling.doc