March 13, 2008

Report to:

Dan Simpson Hydro Geo Chem, Inc. 51 West Wetmore Road Suite 101 Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.0 ACZ Project ID: L67881

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 28, 2008. This project has been assigned to ACZ's project number, L67881. Please reference this number in all future inquiries.

Bill to:

Accounts Payable Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67881. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 13, 2008. 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 guestions or other needs, please contact your Project Manager.

Sue Webber has reviewed and

approved this report.





Project ID: 872002.0

Sample ID: TM-6

ACZ Sample ID: L67881-01

Date Sampled: 02/27/08 08:45

Date Received: 02/28/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	42.2			mg/L	0.2	1	03/03/08 14:09	aeh/erf
Magnesium, dissolved	M200.7 ICP	19.0			mg/L	0.2	1	02/29/08 18:34	aeh/erf
Potassium, dissolved	M200.7 ICP	1.7	В		mg/L	0.3	2	02/29/08 18:34	aeh/erf
Sodium, dissolved	M200.7 ICP	54.3			mg/L	0.3	2	02/29/08 18:34	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		218			mg/L	2	20	03/04/08 0:00	jlfr
Carbonate as CaCO3			U		mg/L	2	20	03/04/08 0:00	jlfr
Hydroxide as CaCO3			U		mg/L	2	20	03/04/08 0:00	jlfr
Total Alkalinity		218			mg/L	2	20	03/04/08 0:00	jlfr
Cation-Anion Balance	Calculation								
Cation-Anion Balance		10.9			%			03/13/08 12:36	calc
Sum of Anions		4.9		1	meq/L	0.1	0.5	03/13/08 12:36	calc
Sum of Cations		6.1			meq/L	0.1	0.5	03/13/08 12:36	calc
Chloride	M300.0 - Ion Chromatography	7.1			mg/L	0.5	3	03/10/08 16:54	aml
Fluoride	M300.0 - Ion Chromatography	0.3	В	*	mg/L	0.1	0.5	03/07/08 18:25	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.96			mg/L	0.02	0.1	03/13/08 12:36	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.96			mg/L	0.02	0.1	02/28/08 18:22	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	02/28/08 18:22	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	310			mg/L	10	20	02/29/08 11:23	cas
Sulfate	300.0 - Ion Chromatography	13.9			mg/L	0.5	3	03/10/08 16:54	aml
TDS (calculated)	Calculation	274			mg/L	10	50	03/13/08 12:36	calc
TDS (ratio - measured/calculated)	Calculation	1.13						03/13/08 12:36	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67881: Page 2 of 12

Project ID: 872002.0

Sample ID: TM-15

ACZ Sample ID: L67881-02

Date Sampled: 02/27/08 10:07

Date Received: 02/28/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	32.9			mg/L	0.2	1	03/03/08 14:12	aeh/erf
Magnesium, dissolved	M200.7 ICP	18.0			mg/L	0.2	1	02/29/08 18:38	aeh/erf
Potassium, dissolved	M200.7 ICP	2.0			mg/L	0.3	2	02/29/08 18:38	aeh/erf
Sodium, dissolved	M200.7 ICP	32.4			mg/L	0.3	2	02/29/08 18:38	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		181			mg/L	2	20	03/04/08 0:00	jlfr
Carbonate as CaCO3		2	В		mg/L	2	20	03/04/08 0:00	jlfr
Hydroxide as CaCO3			U		mg/L	2	20	03/04/08 0:00	jlfr
Total Alkalinity		183			mg/L	2	20	03/04/08 0:00	jlfr
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.5			%			03/13/08 12:36	calc
Sum of Anions		4.2			meq/L	0.1	0.5	03/13/08 12:36	calc
Sum of Cations		4.6			meq/L	0.1	0.5	03/13/08 12:36	calc
Chloride	M300.0 - Ion Chromatography	7.1			mg/L	0.5	3	03/07/08 19:19	aml
Fluoride	M300.0 - Ion Chromatography	0.4	В		mg/L	0.1	0.5	03/07/08 19:19	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.56			mg/L	0.02	0.1	03/13/08 12:36	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.56			mg/L	0.02	0.1	02/28/08 18:25	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	02/28/08 18:25	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	220			mg/L	10	20	02/29/08 11:24	cas
Sulfate	300.0 - Ion Chromatography	14.0			mg/L	0.5	3	03/07/08 19:19	aml
TDS (calculated)	Calculation	224			mg/L	10	50	03/13/08 12:36	calc
TDS (ratio - measured/calculated)	Calculation	0.98						03/13/08 12:36	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67881: Page 3 of 12

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

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L67881: Page 4 of 12

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67881

Project ID: 872002.0

Alkalinity as CaC	O3		SM2320B	- Titration									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241115													
WG241115PBW1	PBW	03/04/08 17:29				U	mg/L		-20	20			
WG241115LCSW2	LCSW	03/04/08 17:42	WC080131-1	820		866.9	mg/L	105.7	90	110			
L67884-06DUP	DUP	03/04/08 18:38			58	57.7	mg/L				0.5	20	
WG241115PBW2	PBW	03/04/08 20:01				U	mg/L		-20	20			
WG241115LCSW5	LCSW	03/04/08 20:13	WC080131-1	820		866.3	mg/L	105.6	90	110			
WG241115PBW3	PBW	03/04/08 23:02				U	mg/L		-20	20			
WG241115LCSW8	LCSW	03/04/08 23:14	WC080131-1	820		847.8	mg/L	103.4	90	110			
WG241115LCSW11	LCSW	03/05/08 1:55	WC080131-1	820		872.8	mg/L	106.4	90	110			
Calcium, dissolv	ed		M200.7 IC	CP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241029													
WG241029ICV	ICV	03/03/08 12:54	II080115-3	100		99.25	mg/L	99.3	95	105			
WG241029ICB	ICB	03/03/08 12:57				U	mg/L		-0.6	0.6			
WG241029LFB	LFB	03/03/08 13:10	11080214-5	67.97008		71.99	mg/L	105.9	85	115			
L67879-01AS	AS	03/03/08 14:00	II080214-5	67.97008	39.7	110.37	mg/L	104	85	115			
L67879-01ASD	ASD	03/03/08 14:03	11080214-5	67.97008	39.7	110.88	mg/L	104.7	85	115	0.46	20	
Chloride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241250													
WG241250ICV	ICV	03/07/08 13:17	WI080220-1	19.98		20.24	mg/L	101.3	90	110			
WG241250ICB	ICB	03/07/08 13:35		.0.00		U	mg/L		-1.5	1.5			
WG241250LFB	LFB	03/07/08 13:53	WI080306-2	30		29.36	mg/L	97.9	90	110			
WG241250ICV1	ICV	03/10/08 15:05	WI080220-1	19.98		20.03	mg/L	100.3	90	110			
WG241250ICB1	ICB	03/10/08 15:23				U	mg/L		-1.5	1.5			
L67881-01AS	AS	03/10/08 17:12	WI080306-2	30	7.1	37.78	mg/L	102.3	90	110			
L67881-01DUP	DUP	03/10/08 17:30			7.1	7.04	mg/L				8.0	20	
Fluoride			M300.0 -	Ion Chrom	atography	•							
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241250													
WG241250ICV	ICV	03/07/08 13:17	WI080220-1	4		4.07	mg/L	101.8	90	110			
WG241250ICB	ICB	03/07/08 13:35		•		U	mg/L		-0.3	0.3			
WG241250LFB	LFB	03/07/08 13:53	WI080306-2	1.5		1.56	mg/L	104	90	110			
L67881-01AS	AS	03/07/08 18:43	WI080306-2	1.5	.3	2.31	mg/L	134	90	110			M
L67881-01DUP	DUP	03/07/08 19:01			.3	.79	mg/L				89.9	20	R
WG241250ICV1	ICV	03/10/08 15:05	WI080220-1	4		3.91	mg/L	97.8	90	110			
WG241250ICB1	ICB	03/10/08 15:23				U	mg/L		-0.3	0.3			

REPIN.01.06.05.01 L67881: Page 5 of 12 (800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67881

Project ID: 872002.0

Magnesium, dis	solved		M200.7 I	CP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240989													
WG240989ICV	ICV	02/29/08 16:40	II080115-3	100		98.03	mg/L	98	95	105			
WG240989ICB	ICB	02/29/08 16:44				U	mg/L		-0.6	0.6			
WG240989LFB	LFB	02/29/08 16:59	11080214-5	54.96908		56.8	mg/L	103.3	85	115			
L67878-02AS	AS	02/29/08 18:00	11080214-5	54.96908	13.3	69.81	mg/L	102.8	85	115			
L67878-02ASD	ASD	02/29/08 18:04	11080214-5	54.96908	13.3	69.12	mg/L	101.5	85	115	0.99	20	
Nitrate/Nitrite as	N, diss	olved	M353.2 -	Automated	Cadmiun	n Reduc	tion						
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240966													
WG240966ICV	ICV	02/28/08 17:57	WI071212-1	2.416		2.406	mg/L	99.6	90	110			
WG240966ICB	ICB	02/28/08 17:58				U	mg/L		-0.06	0.06			
WG240966LFB	LFB	02/28/08 17:59	WI070911-4	2		2.005	mg/L	100.3	90	110			
L67881-01DUP	DUP	02/28/08 18:23			.96	1.003	mg/L				4.4	20	
L67874-08AS	AS	02/28/08 18:41	WI070911-4	40	25.9	68.2	mg/L	105.8	90	110			
Nitrite as N, diss	solved		M353.2 -	Automated	Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240966													
WG240966ICV	ICV	02/28/08 17:57	WI071212-1	.609		.614	mg/L	100.8	90	110			
WG240966ICB	ICB	02/28/08 17:58				U	mg/L		-0.03	0.03			
WG240966LFB	LFB	02/28/08 17:59	WI070911-4	1		1.018	mg/L	101.8	90	110			
L67874-08AS	AS	02/28/08 18:21	WI070911-4	1	.07	1.088	mg/L	101.8	90	110			
L67881-01DUP	DUP	02/28/08 18:23			U	U	mg/L				0	20	R
Potassium, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240989													
WG240989ICV	ICV	02/29/08 16:40	11080115-3	20		20.2	mg/L	101	95	105			
WG240989ICB	ICB	02/29/08 16:44				U	mg/L		-0.9	0.9			
WG240989LFB	LFB	02/29/08 16:59	11080214-5	99.76186		105.41	mg/L	105.7	85	115			
L67878-02AS	AS	02/29/08 18:00	11080214-5	99.76186	4.7	111.17	mg/L	106.7	85	115			
L67878-02ASD	ASD	02/29/08 18:04	11080214-5	99.76186	4.7	110.59	mg/L	106.1	85	115	0.52	20	
Residue, Filtera	ble (TDS) @180C	160.1 / S	M2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240990													
WG240990PBW	PBW	02/29/08 11:00				U	mg/L		-20	20			
	LCSW	02/29/08 11:01	PCN28838	260		294	mg/L	113.1	80	120			
WG240990LCSW						-	J -			-			

REPIN.01.06.05.01 L67881: Page 6 of 12

ACZ Project ID: **L67881**

Project ID: 872002.0

Sodium, dissol	ved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240989													
WG240989ICV	ICV	02/29/08 16:40	II080115-3	100		99.1	mg/L	99.1	95	105			
WG240989ICV	ICV	02/29/08 16:40	11080115-3	100		100.39	mg/L	100.4	95	105			
WG240989ICB	ICB	02/29/08 16:44				U	mg/L		-6	6			
WG240989ICB	ICB	02/29/08 16:44				U	mg/L		-0.9	0.9			
WG240989LFB	LFB	02/29/08 16:59	11080214-5	98.21624		102.9	mg/L	104.8	85	115			
WG240989LFB	LFB	02/29/08 16:59	11080214-5	98.21624		103.03	mg/L	104.9	85	115			
L67878-02AS	AS	02/29/08 18:00	11080214-5	98.21624	8.9	111.04	mg/L	104	85	115			
L67878-02ASD	ASD	02/29/08 18:04	11080214-5	98.21624	8.9	110.72	mg/L	103.7	85	115	0.29	20	
Sulfate			300.0 - Id	on Chromate	ography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241250													
WG241250ICV	ICV	03/07/08 13:17	WI080220-1	50.1		51.6	mg/L	103	90	110			
WG241250ICB	ICB	03/07/08 13:35				U	mg/L		-1.5	1.5			
WG241250LFB	LFB	03/07/08 13:53	WI080306-2	30		30.95	mg/L	103.2	90	110			
WG241250ICV1	ICV	03/10/08 15:05	WI080220-1	50.1		50.62	mg/L	101	90	110			
WG241250ICB1	ICB	03/10/08 15:23				.77	mg/L		-1.5	1.5			
L67881-01AS	AS	03/10/08 17:12	WI080306-2	30	13.9	43.35	mg/L	98.2	90	110			

REPIN.01.06.05.01 L67881: Page 7 of 12

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L67881

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67881-01	WG241250	Fluoride	M300.0 - Ion Chromatography	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240966	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67881-02	WG240966	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

L67881: Page 8 of 12

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67881

No certification qualifiers associated with this analysis

L67881: Page 9 of 12



Sample Receipt

Hydro Geo Chem, Inc.

872002.0

ACZ Project ID: Date Received: L67881 2/28/2008

Received By:

Date Printed: 2/28/2008

Receipt Verification

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

NO	NA
	Х
	Х
	Х
	Х
	Х
	X
	Χ
	NO

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)
2100	2.3	16

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

Notes

REPAD.03.11.00.01

L67881: Page 10 of 12

Sample Receipt

Hydro Geo Chem, Inc.

872002.0

ACZ Project ID: Date Received: L67881 2/28/2008

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
L67881-01	TM-6		Υ									
L67881-02	TM-15		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

REPAD.03.11.00.01

L67881: Page 11 of 12

L(0°+881

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AGZ Labo 2773 Downhill Drive Steamboat Sp							CH	AIN (of Cl	JST	ODY
Report to:											
Name: Dan Simps	50 N		Addre		IN.W						
Company: Hydro Geo	Chem (1+GC	<u>2)</u>			1650						
E-mail: dans@hgc	inc.com		Telep	hone: (<u>(520)</u>	<i>293</i>	<u>- 15</u>	<u>00</u>	<u>X_</u>	133	
Copy of Report to:											
Name: James Work	nis		E-ma	il: ju	mn C	ha	cin	<u>c.</u> c	om		
Company: HGC			Telep	hone:	mn (• (520) 2°	13 -	150C	<u>) x</u>	112	
Invoice to:											
Name: James	Noms		Addre	ess:	51 U	1 . L	ne+	mor	e R	≥d_	
Company: about	=				CSON					,	
	acinc . cor	\sim	Telep		(520						
If sample(s) received past holding	g time (HT), or if insuf	fficient HT rem	nains to	comple	-				YES	X	
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is indicated, ACZ will proceed wit			=	-		will b <u>e</u> (quali <u>fie</u>	d		_	_
PROJECT INFORMATION			AN	ALYSE	S REQUI	ESTED	(attach	list or	use quo	te num	ber)
Quote #: FMCQB-(GW		Τ"	\vee	່ວ						
Project/PO#: 872002			# of Containers	10	1- 1-						1
Reporting state for compliance t	testing: AZ		ntai	8	18, 14	,					
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TM -15	2/27/08 10	D:07 BW		V							<u> </u>
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	/ (Ground Water) · WW (Wa	aste Water) · ww	(Drinking	J Water)	SL (Sluoy	e) · S∪ (Soil) · Oi	L (Oil) · U	ther (Spe	cify)	
REMARKS											
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Please refer to ACZ's terms & conditions located on the reverse side of this COC.

RELINQUISHED BY:	DATE:TIME	RECEIVED BY:	DATE:TIME
train Wille	2/27/03 10:35	(6)/s	0.1180.860

March 07, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L67843

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 26, 2008. This project has been assigned to ACZ's project number, L67843. Please reference this number in all future inquiries.

Bill to:

Accounts Payable

Hydro Geo Chem, Inc. P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67843. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 07, 2008. 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.

Tony Antalek has reviewed and approved this report.





Project ID: 872002.2

Sample ID: OSBORN

ACZ Sample ID: *L67843-01*

Date Sampled: 02/25/08 14:30

Date Received: 02/26/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	84.4			mg/L	0.2	1	02/28/08 17:57	aeh/erf
Magnesium, dissolved	M200.7 ICP	15.4			mg/L	0.2	1	02/28/08 17:57	aeh/erf
Potassium, dissolved	M200.7 ICP	4.3			mg/L	0.3	2	02/28/08 17:57	aeh/erf
Sodium, dissolved	M200.7 ICP	25.2			mg/L	0.3	2	02/28/08 17:57	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		246			mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3		29			mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity		275		*	mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		8.0			%			03/07/08 0:00	calc
Sum of Anions		6.6			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		6.7			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	18.2		*	mg/L	0.5	3	03/01/08 0:52	aml
Fluoride	M300.0 - Ion Chromatography	0.3	В		mg/L	0.1	0.5	03/01/08 0:52	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.76			mg/L	0.02	0.1	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.76			mg/L	0.02	0.1	02/26/08 17:47	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	02/26/08 17:47	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	370			mg/L	10	20	02/28/08 11:01	cas
Sulfate	300.0 - Ion Chromatography	16.4			mg/L	0.5	3	03/01/08 0:52	aml
TDS (calculated)	Calculation	357			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.04						03/07/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67843: Page 2 of 11

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

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sample Types

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L67843: Page 3 of 11

Inorganic QC Summary

Hydro Geo Chem, Inc.

Project ID: 872002.2

ACZ Project ID: L67843

Alkalinity as CaC	O3		SM2320E	3 - Titration									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240850													
WG240850PBW2	PBW	02/27/08 20:27				U	mg/L		-20	20			
WG240850LCSW5	LCSW	02/27/08 20:40	WC080131-1	820		816.8	mg/L	99.6	90	110			
WG240850PBW3	PBW	02/27/08 23:55				U	mg/L		-20	20			
WG240850LCSW8	LCSW	02/28/08 0:08	WC080131-1	820		851.3	mg/L	103.8	90	110			
L67847-05DUP	DUP	02/28/08 3:10			U	U	mg/L				0	20	RA
WG240850LCSW11	LCSW	02/28/08 3:23	WC080131-1	820		869.4	mg/L	106	90	110			
Calcium, dissolve	ed		M200.7 I	CP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240946													
WG240946ICV	ICV	02/28/08 16:42	11080115-3	100		96.11	mg/L	96.1	95	105			
WG240946ICB	ICB	02/28/08 16:46				U	mg/L		-0.6	0.6			
WG240946LFB	LFB	02/28/08 17:02	11080214-5	67.97008		69.29	mg/L	101.9	85	115			
L67772-01AS	AS	02/28/08 17:10	11080214-5	67.97008	7.1	74.3	mg/L	98.9	85	115			
L67772-01ASD	ASD	02/28/08 17:14	11080214-5	67.97008	7.1	76.93	mg/L	102.7	85	115	3.48	20	
L67851-01AS	AS	02/28/08 18:05	II080214-5	67.97008	.6	72.66	mg/L	106	85	115			
L67851-01ASD	ASD	02/28/08 18:09	II080214-5	67.97008	.6	71.49	mg/L	104.3	85	115	1.62	20	
Chloride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240998													
WG240998ICV	ICV	02/29/08 21:50	WI080220-1	19.98		20.4	mg/L	102.1	90	110			
WG240998ICB	ICB	02/29/08 22:09				U	mg/L		-1.5	1.5			
WG240998LFB	LFB	02/29/08 22:27	WI080128-9	30		29.83	mg/L	99.4	90	110			
L67721-03DUP	DUP	02/29/08 23:03			22	21.7	mg/L				1.4	20	RA
L67837-02AS	AS	03/03/08 12:26	WI080128-9	150	106	256.1	mg/L	100.1	90	110			
Fluoride			M300.0 -	Ion Chrom	atography	'							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240998													
WG240998ICV	ICV	02/29/08 21:50	WI080220-1	4		3.94	mg/L	98.5	90	110			
WG240998ICB	ICB	02/29/08 22:09		·		U	mg/L	00.0	-0.3	0.3			
WG240998LFB	LFB	02/29/08 22:27	WI080128-9	1.5		1.44	mg/L	96	90	110			
L67721-03DUP	DUP	02/29/08 23:03			9.2	9.09	mg/L				1.2	20	
L67837-02AS	AS	02/29/08 23:39	WI080128-9	1.5	.1	1.58	mg/L	98.7	90	110			
Magnesium, diss	olved		M200.7 I	CP									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240946													
WG240946ICV	ICV	02/28/08 16:42	II080115-3	100		96.42	mg/L	96.4	95	105			
WG240946ICB	ICB	02/28/08 16:46				U	mg/L	- 3	-0.6	0.6			
WG240946LFB	LFB	02/28/08 17:02	11080214-5	54.96908		56.19	mg/L	102.2	85	115			
L67772-01AS	AS	02/28/08 17:10	11080214-5	54.96908	10.7	63.74	mg/L	96.5	85	115			
				54.96908			-	102.3	85	115	4.87	20	
L67772-01ASD	ASD	02/28/08 17:14	11080214-5	34.90900	10.7	66.92	mg/L	102.3	00	110	4.07	20	
L67772-01ASD L67851-01AS	ASD	02/28/08 17:14	11080214-5	54.96908	U.7	57.9	mg/L	105.3	85	115	4.07	20	

REPIN.01.06.05.01

L67843: Page 4 of 11

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67843

Project ID: 872002.2

Nitrate/Nitrite as	N, diss	olved	M353.2 -	Automated	l Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240851													
WG240851ICV	ICV	02/26/08 17:23	WI071212-1	2.416		2.444	mg/L	101.2	90	110			
WG240851ICB	ICB	02/26/08 17:25				U	mg/L		-0.06	0.06			
WG240851LFB	LFB	02/26/08 17:28	WI070911-4	2		1.911	mg/L	95.6	90	110			
L67843-01DUP	DUP	02/26/08 17:49			3.76	3.741	mg/L				0.5	20	
L67843-01AS	AS	02/26/08 18:08	WI070911-4	10	3.5	13.58	mg/L	100.8	90	110			
Nitrite as N, dis	solved		M353.2 -	Automated	l Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240851													
WG240851ICV	ICV	02/26/08 17:23	WI071212-1	.609		.623	mg/L	102.3	90	110			
WG240851ICB	ICB	02/26/08 17:25				U	mg/L		-0.03	0.03			
WG240851LFB	LFB	02/26/08 17:28	WI070911-4	1		.967	mg/L	96.7	90	110			
L67843-01DUP	DUP	02/26/08 17:49			U	U	mg/L				0	20	R/
L67843-01AS	AS	02/26/08 17:50	WI070911-4	1	U	1.026	mg/L	102.6	90	110			
Potassium, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240946													
WG240946ICV	ICV	02/28/08 16:42	11080115-3	20		19.78	mg/L	98.9	95	105			
WG240946ICB	ICB	02/28/08 16:46				U	mg/L		-0.9	0.9			
WG240946LFB	LFB	02/28/08 17:02	11080214-5	99.76186		104.94	mg/L	105.2	85	115			
L67772-01AS	AS	02/28/08 17:10	11080214-5	99.76186	.9	107.94	mg/L	107.3	85	115			
L67772-01ASD	ASD	02/28/08 17:14	11080214-5	99.76186	.9	115.4	mg/L	114.8	85	115	6.68	20	
L67851-01AS	AS	02/28/08 18:05	11080214-5	99.76186	.6	108.52	mg/L	108.2	85	115			
L67851-01ASD	ASD	02/28/08 18:09	11080214-5	99.76186	.6	107.24	mg/L	106.9	85	115	1.19	20	
Residue, Filtera	ble (TDS	S) @180C	160.1 / S	M2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240937													
WG240937PBW	PBW	02/28/08 10:45				U	mg/L		-20	20			
WG240937LCSW	LCSW	02/28/08 10:46	PCN28838	260		292	mg/L	112.3	80	120			
L67871-01DUP	DUP	02/28/08 11:14			1150	1150	mg/L				0	20	
Sodium, dissolv	/ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240946													
WG240946ICV	ICV	02/28/08 16:42	II080115-3	100		97.2	mg/L	97.2	95	105			
WG240946ICV	ICV	02/28/08 16:42	11080115-3	100		98.84	mg/L	98.8	95	105			
WG240946ICB	ICB	02/28/08 16:46				U	mg/L		-6	6			
WG240946ICB	ICB	02/28/08 16:46				U	mg/L		-0.9	0.9			
WG240946LFB	LFB	02/28/08 17:02	II080214-5	98.21624		103.59	mg/L	105.5	85	115			
WG240946LFB	LFB	02/28/08 17:02	11080214-5	98.21624		102.7	mg/L	104.6	85	115			
L67851-01AS	AS	02/28/08 18:05	11080214-5	98.21624	.4	104.97	mg/L	106.5	85	115			
							-						

REPIN.01.06.05.01 L67843: Page 5 of 11

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L67843

Project ID: 872002.2

Sulfate			300.0 - Ion	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240083													
WG240083ICV	ICV	02/07/08 16:57	WI080128-8	50.1		50.44	mg/L	100.7	90	110			
WG240083ICB	ICB	02/07/08 17:15				U	mg/L		-1.5	1.5			
WG240083ICV1	ICV	02/09/08 11:47	WI080128-8	50.1		51.13	mg/L	102.1	90	110			
WG240083ICB1	ICB	02/09/08 12:05				U	mg/L		-1.5	1.5			
WG240998													
WG240998ICV	ICV	02/29/08 21:50	WI080220-1	50.1		52.15	mg/L	104.1	90	110			
WG240998ICB	ICB	02/29/08 22:09				U	mg/L		-1.5	1.5			
WG240998LFB	LFB	02/29/08 22:27	WI080128-9	30		29.71	mg/L	99	90	110			
L67721-03DUP	DUP	02/29/08 23:03			39	37.6	mg/L				3.7	20	
L67837-02AS	AS	03/03/08 12:26	WI080128-9	150	90	238.9	mg/L	99.3	90	110			

REPIN.01.06.05.01 L67843: Page 6 of 11

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc. ACZ Project ID: L67843

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67843-01	WG240998	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240851	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240850	Total Alkalinity	SM2320B - Titration	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

Hydro Geo Chem, Inc. ACZ Project ID: L67843

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received:

L67843 2/26/2008

Received By:

Date Printed: 2/26/2008

Receipt Verification

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

NO	NA
	Х
	Χ
	Х
	Х
	Χ
	Х
	Χ
	NO

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)
NA5556	5.5	15

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

Notes

REPAD.03.11.00.01

L67843: Page 9 of 11



Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: L67843 2/26/2008

Received By:

Sample Container Preservation	Sa	ampl	e C	ont	taine	er P	res	serv	ation
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SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L67843-01	OSBORN		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
P	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be $< 250 \mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	

64843

ALIA 2773 Downhill Drive	Laboratori		×	,		CHAIN	of CUST	FODY
Report to:	Steamboat Springs,	CO 80487 (800)	334-3493	<u>) </u>				
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	d past holding time (H ation, shall ACZ proce				DIETE		YES X	-
If "NO" then ACZ wil	I contact client for fur	ther instruction. If	neither "Y	ES" nor "I	_		I	_
	proceed with the requ	uested analyses, ev						
PROJECT INFORMA			ANA	ALYSES RE	QUESTED	(attach list o	r use quote nu	mber)
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March 07, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L67837

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 25, 2008. This project has been assigned to ACZ's project number, L67837. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67837. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 07, 2008. 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.

Tony Antalek has reviewed and approved this report.





Case Narrative

Hydro Geo Chem, Inc.

March 07, 2008

Project ID: 872002.2 ACZ Project ID: L67837

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 5 ground water samples from Hydro Geo Chem, Inc. on February 25, 2008. The samples were received in good condition. Upon receipt, the sample custodian removed the samples from the cooler, inspected the contents, and logged the samples into ACZ's computerized Laboratory Information Management System (LIMS). The samples were assigned ACZ LIMS project number L67837. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses except those qualified with an ACZ 'H' flag were performed within EPA recommended holding times.

Sample Analysis

These samples were analyzed for inorganic parameters. The individual methods are referenced on both the ACZ invoice and the analytical reports. The extended qualifier reports may contain footnotes qualifying specific elements due to QC failures. In addition the following has been noted with this specific project:

1. Client samples were received at a temperature outside of the acceptable range (See Sample Receipt Form).

REPAD.03.06.05.01

L67837: Page 2 of 17

Project ID: 872002.2

Sample ID: COB-MW-1

ACZ Sample ID: L67837-01

Date Sampled: 02/22/08 08:20

Date Received: 02/25/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	257			mg/L	0.2	1	02/28/08 15:30	erf
Magnesium, dissolved	M200.7 ICP	64.5			mg/L	0.2	1	02/28/08 15:30	erf
Potassium, dissolved	M200.7 ICP	7.7			mg/L	0.3	2	02/28/08 15:30	erf
Sodium, dissolved	M200.7 ICP	56.5			mg/L	0.3	2	02/28/08 15:30	erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		206			mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3		11	В		mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity		217			mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		1.5			%			03/07/08 0:00	calc
Sum of Anions		20.2			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		20.8			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	19.8			mg/L	0.5	3	02/29/08 1:49	aml/ccp
Fluoride	SM4500F-C	0.3	В	*	mg/L	0.1	0.5	03/04/08 14:42	cas
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	2.33			mg/L	0.02	0.1	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	2.33	Н	*	mg/L	0.02	0.1	02/26/08 17:36	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	02/26/08 17:36	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	1360		*	mg/L	10	20	02/28/08 10:54	cas
Sulfate	300.0 - Ion Chromatography	720			mg/L	10	50	02/29/08 20:38	aml/ccp
TDS (calculated)	Calculation	1270			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.07						03/07/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67837: Page 3 of 17

Project ID: 872002.2

Sample ID: WARREN LAGOON-COB

ACZ Sample ID: L67837-02

Date Sampled: 02/22/08 09:10

Date Received: 02/25/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	128			mg/L	0.2	1	02/28/08 15:42	erf
Magnesium, dissolved	M200.7 ICP	34.3			mg/L	0.2	1	02/28/08 15:42	erf
Potassium, dissolved	M200.7 ICP	7.2			mg/L	0.3	2	02/28/08 15:42	erf
Sodium, dissolved	M200.7 ICP	47.8			mg/L	0.3	2	02/28/08 15:42	erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		269			mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3		11	В		mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity		280			mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		3.1			%			03/07/08 0:00	calc
Sum of Anions		10.8			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		11.5			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	106		*	mg/L	3	10	03/03/08 12:09	aml
Fluoride	SM4500F-C	0.3	В	*	mg/L	0.1	0.5	03/04/08 14:45	cas
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.91			mg/L	0.02	0.1	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.91	Н	*	mg/L	0.02	0.1	02/26/08 17:37	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	02/26/08 17:37	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	650		*	mg/L	10	20	02/28/08 10:55	cas
Sulfate	300.0 - Ion Chromatography	90			mg/L	3	10	03/03/08 12:09	aml
TDS (calculated)	Calculation	603			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.08						03/07/08 0:00	calc

Arizona license number: AZ0102

Project ID: 872002.2

Sample ID: COB-MW-2

ACZ Sample ID: L67837-03

Date Sampled: 02/22/08 10:00

Date Received: 02/25/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	66.4			mg/L	0.2	1	02/28/08 15:46	erf
Magnesium, dissolved	M200.7 ICP	9.0			mg/L	0.2	1	02/28/08 15:46	erf
Potassium, dissolved	M200.7 ICP	2.1			mg/L	0.3	2	02/28/08 15:46	erf
Sodium, dissolved	M200.7 ICP	25.5			mg/L	0.3	2	02/28/08 15:46	erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		156			mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3		12	В		mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity		168			mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		0.0			%			03/07/08 0:00	calc
Sum of Anions		5.2			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		5.2			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	19.4		*	mg/L	0.5	3	02/29/08 23:57	aml
Fluoride	SM4500F-C	0.3	В	*	mg/L	0.1	0.5	03/04/08 14:50	cas
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	6.49			mg/L	0.06	0.3	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	6.49	Н	*	mg/L	0.06	0.3	02/26/08 18:03	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	02/26/08 17:44	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	340		*	mg/L	10	20	02/28/08 10:56	cas
Sulfate	300.0 - Ion Chromatography	41.0			mg/L	0.5	3	02/29/08 23:57	aml
TDS (calculated)	Calculation	298			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.14						03/07/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67837: Page 5 of 17

Project ID: 872002.2

Sample ID: DUP022208

ACZ Sample ID: L67837-04

Date Sampled: 02/22/08 00:00

Date Received: 02/25/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	65.7			mg/L	0.2	1	02/28/08 15:58	erf
Magnesium, dissolved	M200.7 ICP	8.9			mg/L	0.2	1	02/28/08 15:58	erf
Potassium, dissolved	M200.7 ICP	2.1			mg/L	0.3	2	02/28/08 15:58	erf
Sodium, dissolved	M200.7 ICP	25.2			mg/L	0.3	2	02/28/08 15:58	erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		156			mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3		12	В		mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity		169		*	mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		-1.0			%			03/07/08 0:00	calc
Sum of Anions		5.2			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		5.1			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	19.3		*	mg/L	0.5	3	03/01/08 0:15	aml
Fluoride	SM4500F-C	0.3	В	*	mg/L	0.1	0.5	03/04/08 14:54	cas
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	6.53			mg/L	0.06	0.3	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	6.53	Н	*	mg/L	0.06	0.3	02/26/08 18:05	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	02/26/08 17:45	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	330		*	mg/L	10	20	02/28/08 10:58	cas
Sulfate	300.0 - Ion Chromatography	41.0			mg/L	0.5	3	03/01/08 0:15	aml
TDS (calculated)	Calculation	297			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.11						03/07/08 0:00	calc

Arizona license number: AZ0102

Project ID: 872002.2

Sample ID: FB022208

ACZ Sample ID: *L67837-05*

Date Sampled: 02/22/08 00:00

Date Received: 02/25/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP		U		mg/L	0.2	1	02/28/08 16:02	erf
Magnesium, dissolved	M200.7 ICP		U		mg/L	0.2	1	02/28/08 16:02	erf
Potassium, dissolved	M200.7 ICP		U		mg/L	0.3	2	02/28/08 16:02	erf
Sodium, dissolved	M200.7 ICP	0.3	В		mg/L	0.3	2	02/28/08 16:02	erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Carbonate as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	ear/cas
Total Alkalinity			U	*	mg/L	2	20	02/28/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		n/a			%			03/07/08 0:00	calc
Sum of Anions			U		meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations			U		meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography		U	*	mg/L	0.5	3	03/01/08 0:34	aml
Fluoride	SM4500F-C		U	*	mg/L	1	5	03/04/08 15:01	cas
Lab Filtration	SM 3030 B			*				02/27/08 8:33	wpl
Lab Filtration & Acidification	SM 3030 B			*				02/27/08 7:55	wpl
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.03	В		mg/L	0.02	0.1	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.03	ВН	*	mg/L	0.02	0.1	02/26/08 18:04	сср
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.01	0.05	02/26/08 17:46	сср
Residue, Filterable (TDS) @180C	160.1 / SM2540C	20	В	*	mg/L	10	20	02/28/08 10:59	cas
Sulfate	300.0 - Ion Chromatography		U		mg/L	0.5	3	03/01/08 0:34	aml
TDS (calculated)	Calculation		U		mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	n/a						03/07/08 0:00	calc

Arizona license number: AZ0102

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

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing 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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67837

Project ID: 872002.2

Alkalinity as CaC	:03		SM2320E	3 - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240850													
WG240850PBW2	PBW	02/27/08 20:27				U	mg/L		-20	20			
WG240850LCSW5	LCSW	02/27/08 20:40	WC080131-1	820		816.8	mg/L	99.6	90	110			
WG240850PBW3	PBW	02/27/08 23:55				U	mg/L		-20	20			
WG240850LCSW8	LCSW	02/28/08 0:08	WC080131-1	820		851.3	mg/L	103.8	90	110			
L67837-03DUP	DUP	02/28/08 1:51			168	168.7	mg/L				0.4	20	
L67847-05DUP	DUP	02/28/08 3:10			U	U	mg/L				0	20	RA
WG240850LCSW11	LCSW	02/28/08 3:23	WC080131-1	820		869.4	mg/L	106	90	110			
Calcium, dissolv	ed		M200.7 IC										
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240944													
WG240944ICV1	ICV	02/28/08 13:59	II080115-3	100		98.01	mg/L	98	95	105			
WG240944ICB	ICB	02/28/08 14:03				U	mg/L		-0.6	0.6			
WG240944LFB	LFB	02/28/08 14:19	11080214-5	67.97008		69.14	mg/L	101.7	85	115			
L67837-03AS	AS	02/28/08 15:50	11080214-5	67.97008	66.4	130.76	mg/L	94.7	85	115			
L67837-03ASD	ASD	02/28/08 15:54	II080214-5	67.97008	66.4	133.18	mg/L	98.2	85	115	1.83	20	
Chloride			M300.0 -	Ion Chrom	atography	/							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240945													
WG240945ICV	ICV	02/28/08 17:58	WI080220-1	19.98		19.85	mg/L	99.3	90	110			
WG240945ICB	ICB	02/28/08 18:16				U	mg/L		-1.5	1.5			
WG240945LFB	LFB	02/28/08 18:34	WI080128-9	30		28.85	mg/L	96.2	90	110			
L67745-06AS	AS	02/28/08 23:24	WI080128-9	30	21.4	50.76	mg/L	97.9	90	110			
L67745-06DUP	DUP	02/28/08 23:42			21.4	21.49	mg/L				0.4	20	
WG240945ICV1	ICV	02/29/08 19:07	WI080220-1	19.98		20.3	mg/L	101.6	90	110			
WG240945ICB1	ICB	02/29/08 19:25				U	mg/L		-1.5	1.5			
WG240998													
WG240998ICV	ICV	02/29/08 21:50	WI080220-1	19.98		20.4	mg/L	102.1	90	110			
WG240998ICB	ICB	02/29/08 22:09				U	mg/L		-1.5	1.5			
WG240998LFB	LFB	02/29/08 22:27	WI080128-9	30		29.83	mg/L	99.4	90	110			
L67721-03DUP	DUP	02/29/08 23:03			22	21.7	mg/L				1.4	20	RA
L67837-02AS	AS	03/03/08 12:26	WI080128-9	150	106	256.1	mg/L	100.1	90	110			
Fluoride			SM4500F	-C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241077													
WG241077ICV	ICV	03/04/08 10:46	WC080227-1	2		2	mg/L	100	90	110			
WG241077ICB	ICB	03/04/08 10:53				U	mg/L		-0.3	0.3			
WG241077LFB1	LFB	03/04/08 10:58	WC080226-1	5		5.14	mg/L	102.8	90	110			
WG241077LFB2	LFB	03/04/08 12:32	WC080226-1	5		5.02	mg/L	100.4	90	110			
L67831-04AS	AS	03/04/08 14:19	WC080226-1	5	.3	5.52	mg/L	104.4	90	110			
L67831-04DUP	DUP	03/04/08 14:25			.3	.31	mg/L				3.3	20	RA

REPIN.01.06.05.01 L67837: Page 9 of 17

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RA

ACZ Project ID: L67837

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

Hydro Geo Chem, Inc.

L67837-05DUP

02/28/08 11:00

DUP

Project ID: 872002.2

M200.7 ICP Magnesium, dissolved ACZ ID Туре Analyzed PCN/SCN QC Found Units RPD Limit WG240944 WG240944ICV1 ICV 02/28/08 13:59 II080115-3 100 99.99 mg/L 100 95 105 WG240944ICB ICB 02/28/08 14:03 U mg/L -0.6 0.6 WG240944LFB LFB 02/28/08 14:19 11080214-5 54.96908 57.01 mg/L 103.7 85 115 L67837-03AS AS 02/28/08 15:50 II080214-5 54.96908 9 64 27 mg/L 100.5 85 115 L67837-03ASD ASD 02/28/08 15:54 II080214-5 54.96908 9 65.86 mg/L 103.4 85 115 2.44 20 Nitrate/Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction Туре PCN/SCN Sample Found Analyzed Upper RPD WG240851 WG240851ICV ICV 02/26/08 17:23 WI071212-1 2.416 2.444 101.2 90 110 mg/L WG240851ICB ICB 02/26/08 17:25 U -0.06 0.06 mg/L WG240851LFB LFB 02/26/08 17:28 WI070911-4 2 1.911 mg/L 90 110 95.6 DUP L67774-05DUP 02/26/08 17:35 .12 .119 mg/L 8.0 20 RA L67684-01AS AS 02/26/08 18:00 WI070911-4 1.82 93.2 90 3.684 mg/L 110 Nitrite as N, dissolved M353.2 - Automated Cadmium Reduction ACZ ID PCN/SCN Found Units RPD Qual Type Analyzed QC Sample Lower Upper Rec WG240851 WG240851ICV ICV 02/26/08 17:23 WI071212-1 .609 .623 mg/L 102.3 90 110 WG240851ICB **ICB** 02/26/08 17:25 U mg/L -0.03 0.03 WG240851LFB LFB .967 02/26/08 17:28 WI070911-4 1 96.7 90 110 mg/L L67684-01AS AS 02/26/08 17:31 WI070911-4 U .969 mg/L 96.9 90 110 L67774-05DUP DUP 02/26/08 17:54 .12 .115 mg/L 43 20 Potassium, dissolved M200.7 ICP ACZ ID Туре Analyzed PCN/SCN QC Found Units Rec Lower Upper RPD Limit WG240944 WG240944ICV1 ICV 02/28/08 13:59 II080115-3 20 20.55 mg/L 102.8 95 105 WG240944ICB **ICB** 02/28/08 14:03 U mg/L -0.9 0.9 WG240944LFB LFB 02/28/08 14:19 11080214-5 99.76186 106.11 mg/L 106.4 85 115 L67837-03AS AS 02/28/08 15:50 II080214-5 99.76186 2.1 106.21 mg/L 104.4 85 115 L67837-03ASD ASD 02/28/08 15:54 II080214-5 99.76186 2.1 109.14 107.3 85 mg/L 115 2.72 20 Residue, Filterable (TDS) @180C 160.1 / SM2540C ACZ ID Type Analyzed PCN/SCN QC Found Units Upper WG240937 WG240937PBW PBW U -20 20 02/28/08 10:45 mg/L WG240937LCSW PCN28838 260 292 80 120 **LCSW** 02/28/08 10:46 mg/L 112.3

REPIN.01.06.05.01 L67837: Page 10 of 17

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mg/L

ACZ Project ID: L67837

(800) 334-5493

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sodium, dissolv	red		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240944													
WG240944ICV1	ICV	02/28/08 13:59	II080115-3	100		101.56	mg/L	101.6	95	105			
WG240944ICB	ICB	02/28/08 14:03				U	mg/L		-0.9	0.9			
WG240944LFB	LFB	02/28/08 14:19	11080214-5	98.21624		103.41	mg/L	105.3	85	115			
L67837-03AS	AS	02/28/08 15:50	11080214-5	98.21624	25.5	123.85	mg/L	100.1	85	115			
L67837-03ASD	ASD	02/28/08 15:54	11080214-5	98.21624	25.5	126.72	mg/L	103.1	85	115	2.29	20	
Sulfate			300.0 - Io	on Chromat	ography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240083													
WG240083ICV	ICV	02/07/08 16:57	WI080128-8	50.1		50.44	mg/L	100.7	90	110			
WG240083ICB	ICB	02/07/08 17:15				U	mg/L		-1.5	1.5			
WG240083ICV1	ICV	02/09/08 11:47	WI080128-8	50.1		51.13	mg/L	102.1	90	110			
WG240083ICB1	ICB	02/09/08 12:05				U	mg/L		-1.5	1.5			
WG240945													
WG240945ICV	ICV	02/28/08 17:58	WI080220-1	50.1		50.62	mg/L	101	90	110			
WG240945ICB	ICB	02/28/08 18:16				U	mg/L		-1.5	1.5			
WG240945LFB	LFB	02/28/08 18:34	WI080128-9	30		28.4	mg/L	94.7	90	110			
WG240945ICV1	ICV	02/29/08 19:07	WI080220-1	50.1		52.07	mg/L	103.9	90	110			
WG240945ICB1	ICB	02/29/08 19:25				U	mg/L		-1.5	1.5			
L67745-06AS	AS	02/29/08 20:02	WI080128-9	300	398	694	mg/L	98.7	90	110			
L67745-06DUP	DUP	02/29/08 20:20			398	398.4	mg/L				0.1	20	
WG240998													
WG240998ICV	ICV	02/29/08 21:50	WI080220-1	50.1		52.15	mg/L	104.1	90	110			
WG240998ICB	ICB	02/29/08 22:09				U	mg/L		-1.5	1.5			
WG240998LFB	LFB	02/29/08 22:27	WI080128-9	30		29.71	mg/L	99	90	110			
L67721-03DUP	DUP	02/29/08 23:03			39	37.6	mg/L				3.7	20	
L67837-02AS	AS	03/03/08 12:26	WI080128-9	150	90	238.9	mg/L	99.3	90	110			

REPIN.01.06.05.01 L67837: Page 11 of 17

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L67837

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67837-01	WG241077	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).
	WG240851	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	H3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67837-02	WG240998	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241077	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).
	WG240851	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	НЗ	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67837-03	WG240998	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241077	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).
	WG240851	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L67837

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67837-04	WG240998	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241077	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).
	WG240851	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240850	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67837-05	WG240998	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241077	Fluoride	SM4500F-C	DJ	Sample dilution required due to insufficient sample.
			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).
	WG240851	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	Н3	Sample was received and analyzed past holding time.
			M353.2 - Automated Cadmium Reduction	ZU	Analysis date/time preceeds filter date/time. A portion of sample was filtered and analyzed prior to the creation of a Filter workgroup.
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240850	Total Alkalinity	SM2320B - Titration	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

Hydro Geo Chem, Inc. ACZ Project ID: L67837

Wet Chemistry

The following parameters are not offered for certification or are not covered by NELAC certificate #ACZ.

Lab Filtration SM 3030 B
Lab Filtration & Acidification SM 3030 B



Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: L67837 2/25/2008

Received By:

Date Printed: 2/25/2008

Receipt Verification

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

YES	NO	NA
		Х
		Χ
		Х
Х		
Χ		
Х		
Х		
	Х	
Х		
		Х
		Χ
		X
		Х

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

Some Holddates are past.

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

The client was not contacted.

Shipping Containers

Cooler Id	Temp (°C)	Rad (μR/hr)
1840	12.1	15

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

Notes

Samples 4 & 5 have no times on containers or COC.

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received:

L67837 2/25/2008

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
L67837-01	COB-MW-1		Υ									
L67837-02	WARREN LAGOON-COB		Υ									
L67837-03	COB-MW-2		Υ									
L67837-04	DUP022208		Υ									
L67837-05	FB022208		Υ									

Sample Container Preservation Legend

Description	Container Type	Preservative/Limits
Raw/Nitric	RED	pH must be < 2
Filtered/Sulfuric	BLUE	pH must be < 2
Filtered/Nitric	BLACK	pH must be < 2
Filtered/Nitric	GREEN	pH must be < 2
Raw/Sulfuric	ORANGE	pH must be < 2
Raw/NaOH	PURPLE	pH must be > 12 *
Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Raw/Sulfuric	YELLOW	pH must be < 2
Raw/Sulfuric	YELLOW GLASS	pH must be < 2
No preservative needed	Not applicable	
Gamma/Beta dose rate	Not applicable	must be $< 250 \ \mu R/hr$
	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric Raw/NaOH Raw/NaOH Zinc Acetate Raw/Sulfuric Raw/Sulfuric Raw/Sulfuric No preservative needed	Raw/Nitric RED Filtered/Sulfuric BLUE Filtered/Nitric BLACK Filtered/Nitric GREEN Raw/Sulfuric ORANGE Raw/NaOH PURPLE Raw/NaOH Zinc Acetate TAN Raw/Sulfuric YELLOW Raw/Sulfuric YELLOW GLASS No preservative needed Not applicable

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

ACZ		atories, Inc.		783	7			CHA	dN c	of CL	JST	ODY
2773 Downhill D Report to:	Prive Steamboat	Springs, CO 80487 (8)	00) 334	1-5493								
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		g time (HT), or if insuffic	ient HT	remain	s to co	mplete	- 1	,		YES	X	
		ACZ proceed with reques								NO		:
		ent for further instruction In the requested analyses					lota will	he aus	lified			
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WARREN	LAGOON-C	OB 2/22/08: 9:10	GW	3	ᆺ	X	X					
COB-mu	N-2	2/2/08: 10:00	6W	3	X	×	×					
DUPUZZ	208	2/22/08	6W	3	X	X	X					
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March 05, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L67817

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 22, 2008. This project has been assigned to ACZ's project number, L67817. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67817. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 05, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havermehl





Hydro Geo Chem, Inc.

ACZ Sample ID: **L67817-01**

Project ID: 872001.0

Date Sampled: 02/21/08 09:50

Date Received: 02/22/08

Sample ID: LAWSONTVI236

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	41.9		ma/L	0.5	3	02/29/08 0:19	aml/ccp

Arizona license number: AZ0102

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

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L67817

Project ID: 872001.0

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240083													
WG240083ICV	ICV	02/07/08 16:57	WI080128-8	50.1		50.44	mg/L	100.7	90	110			
WG240083ICB	ICB	02/07/08 17:15				U	mg/L		-1.5	1.5			
WG240083ICV1	ICV	02/09/08 11:47	WI080128-8	50.1		51.13	mg/L	102.1	90	110			
WG240083ICB1	ICB	02/09/08 12:05				U	mg/L		-1.5	1.5			
WG240945													
WG240945ICV	ICV	02/28/08 17:58	WI080220-1	50.1		50.62	mg/L	101	90	110			
WG240945ICB	ICB	02/28/08 18:16				U	mg/L		-1.5	1.5			
WG240945LFB	LFB	02/28/08 18:34	WI080128-9	30		28.4	mg/L	94.7	90	110			
WG240945ICV1	ICV	02/29/08 19:07	WI080220-1	50.1		52.07	mg/L	103.9	90	110			
WG240945ICB1	ICB	02/29/08 19:25				U	mg/L		-1.5	1.5			
L67745-06AS	AS	02/29/08 20:02	WI080128-9	300	398	694	mg/L	98.7	90	110			
L67745-06DUP	DUP	02/29/08 20:20			398	398.4	mg/L				0.1	20	

REPIN.01.06.05.01 L67817: Page 4 of 9

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

WORKNUM PARAMETER

ACZ ID

ACZ Project ID: L67817

METHOD

QUAL DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67817

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L67817 2/22/2008

Received By:

Date Printed: 2/22/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
X		
Х		
Х		
Χ		
Х		
Χ		
		Х
		Х
		Х
		Х

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)
NA5542	1.1	15

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received:

L67817

2/22/2008

Received By:

Samo	le L'on	tainer L	Preservati	
201112		tanıcı i	LESELVAU	7-2 III

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L67817-01	LAWSONTVI									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 $\mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

2773 Downhill Drive Steamboa	ratories, Inc. at Springs, CO 80487 (8						CHA	AIN (of C	UST	ODY
Report to: Name: Dan Simpson Company: Hydro (reo (E-mail: Jans@hydro.				70	51 L uuso 520)		72	<u> 85</u>		<u>5</u>	
Copy of Report to: Name: Jim Worris Company: Jimn@harir	ses com/HUL IN	<u>4</u>	E-ma Telep	il: ئ hone:	mne 520	hgciro D) Ze	i.con 13-1	500	x] [.	2	
Invoice to: Name: Jim Norris Company: IfGL Inc. E-mail: Jimne hac If sample(s) received past holding analysis before expiration, shall if "NO" then ACZ will contact cli	ng time (HT), or if insuffic ACZ proceed with reques ient for further instructior	ted shorn. If neit	Telep remain t HT ar	hone: s to conalyses ES" no	52 omplete s? r "NO"	0);	AZ 293	8.	S 700 S OC YES NO		
is indicated, ACZ will proceed with PROJECT INFORMATION	ith the requested analyses	s, even i			d, and d				use au	nte nun	nhar)
Quote #: 504 - IC Project/PO #: 77200 Reporting state for compliant Sampler's Name: Mark Are any samples NRC licensa SAMPLE IDENTIFICATION	Arneson	Matrix	# of Containers		<i>S</i> ⁴ −						
SAMPLE IDENTIFICATION GOAR-MA.	DATE:TIME	Matrix									
LAWSONTVI	2/21/08:0950	6W	1		Х						
Matrix SW (Surface Water) - 0 REMARKS/ SAMPLE DISCLOS	L GW (Ground Water) · WW (W URES	aste Wat	er) · DV	V (Drink	ing Wate	er) · SL	(Sludge)) · SO (Soil) · (OL (Oil)	· Other
Please refer R'ELINQUISHED BY:	to ACZ's terms & cond DATE:TI		ocated		ne reve RECEIV			nis CO		TE:TI	PAGE of ME
	2/21/04:	1624	,	X:0	ζ)-(Λ	P	3	9:L >	5		

March 13, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L67989

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 05, 2008. This project has been assigned to ACZ's project number, L67989. Please reference this number in all future inquiries.

Bill to:

Accounts Payable Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67989. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 13, 2008. 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.

Sue Webber has reviewed and approved this report.





Hydro Geo Chem, Inc.

ACZ Sample ID: **L67989-01** Project ID: 872001.0 Date Sampled: 03/04/08 09:00

Sample ID: COOPER C Date Received: 03/05/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	880		ma/L	10	50	03/10/08 20:31	aml

Arizona license number: AZ0102

REPIN.02.06.05.01

L67989: Page 2 of 9

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

Renort	Header	Eval	anations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

OC	0.0	100.10		The same	V-10-
16/67	POT.	188101	100	I III YA O	1515

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L67989

Project ID: 872001.0

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241250													
WG241250ICV	ICV	03/07/08 13:17	WI080220-1	50.1		51.6	mg/L	103	90	110			
WG241250ICB	ICB	03/07/08 13:35				U	mg/L		-1.5	1.5			
WG241250LFB	LFB	03/07/08 13:53	WI080306-2	30		30.95	mg/L	103.2	90	110			
WG241250ICV1	ICV	03/10/08 15:05	WI080220-1	50.1		50.62	mg/L	101	90	110			
WG241250ICB1	ICB	03/10/08 15:23				.77	mg/L		-1.5	1.5			
L67881-01AS	AS	03/10/08 17:12	WI080306-2	30	13.9	43.35	mg/L	98.2	90	110			
L67881-01DUP	DUP	03/10/08 17:30			13.9	13.79	mg/L				8.0	20	

REPIN.01.06.05.01 L67989: Page 4 of 9

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L67989

ACZID WORKNUM PARAMETER METHOD QUAL DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67989

No certification qualifiers associated with this analysis



Sample Receipt

ACZ Project ID: L67989 Hydro Geo Chem, Inc. Date Received: 3/5/2008 872001.0

Received By:

Date Printed: 3/5/2008

Receipt Verification

1) Does this project require special handling procedures such as CLP protocol?

2) Are the custody seals on the cooler intact?

3) Are the custody seals on the sample containers intact?

4) Is there a Chain of Custody or other directive shipping papers present?

5) Is the Chain of Custody complete?

6) Is the Chain of Custody in agreement with the samples received?

7) Is there enough sample for all requested analyses?

8) Are all samples within holding times for requested analyses?

9) Were all sample containers received intact?

10) Are the temperature blanks present?

11) Are the trip blanks (VOA and/or Cyanide) present?

12) Are samples requiring no headspace, headspace free?

13) Do the samples that require a Foreign Soils Permit have one?

YES	NO	NA
		Х
		Х
		Х
X		
Χ		
Х		
Χ		
X		
Х		
		Х
		Х
		X
		Χ

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)
NA5594	3.2	16

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L67989

3/5/2008

Received By:

Samr	ole i	Coni	tainer	Preser	vation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L67989-01	COOPER C									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be $< 250 \ \mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	

167989

ALZ Labo			E402	v				СН	AIN	of C	UST	ODY
2773 Downhill Drive Steamboat Sp Report to:	rings, CO 804	487 (800) 334	-5493	a.u.			•					
Name: Dan Simpson			-	Addre	vee:	<u></u>		1.10		0		
Company: Hydro Geo		Tni	┪	Addie		Tues		We A	<u>ot mol</u>	<u>e Ka</u>	2.4	
E-mail: dans@haci	Ol. Com	LIVE.	-	Telep	/ hone:	520	<u> </u>	, 77 93-	<u>C</u> 1500	100 <u>7</u> X	00 173	
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Name: Jim Nords				E-mai	ı.	1		1 (
Company: HGC TAC.			-	Telep		U 1 MI	na .	haci	10.00	OX 1	1/2	
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E-mail: Jimn@ hac	\		-	Telepl	hono:	-	501		<u>1500</u>	2010	<u>)</u> 172	
If sample(s) received past holding			.J t HT rem			<u> </u>	1) 23	13	<u> </u>	<u>) </u>		
analysis before expiration, shall A	CZ proceed	with requeste	d short H	iT analy	ses?					NO		
If "NO" then ACZ will contact clier											-	
is indicated, ACZ will proceed with PROJECT INFORMATION	n me request	eu anaiyses, e	even ii n					-		use au	ote num	hor)
Quote #: 5(24 - T.C.								(actar)		use que		
Project/PO #: 872001	$\overline{\Omega}$		-	ers								
Reporting state for compliance to	esting: A	7	1	[aj								ł
Sampler's Name: Mark	Arneson	<u>ሩ</u>		Containers	7							
Campier Straine. ///wi/	111100		⊣	The Contraction		14-1		.1		1		
Are any samples NRC licensable	e material?	NA		5	$ \cdot\rangle$							
Are any samples NRC licensable SAMPLE IDENTIFICATION		<i>∏o</i> ≢time	Matrix	*	S	. %						
	DAT			*	X							
SAMPLE IDENTIFICATION			Matrix Gw	*)S							
SAMPLE IDENTIFICATION	DAT			*	x <i>Sc</i>							
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SAMPLE IDENTIFICATION	DAT		GW	*)S x							
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SAMPLE IDENTIFICATION	DAT		GW	*)S x							
SAMPLE IDENTIFICATION	DAT 3/4/08	9:00	GW	1	-	SL (Sludç	ge) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COOPER C	DAT 3/4/08	9:00	GW	1	-	SL (Studç	ge) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COPER C Matrix SW (Surface Water) · GW (DAT 3/4/08	9:00	GW	1	-	SL (Sludç	ge) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COPER C Matrix SW (Surface Water) · GW (DAT 3/4/08	9:00	GW	1	-	SL (Sludç	ge) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COPER C Matrix SW (Surface Water) · GW (DAT 3/4/08	9:00	GW	1	-	SL (Sludg	ge) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COPER C Matrix SW (Surface Water) · GW (DAT 3/4/08	9:00	GW	1	-	SL (Słudg	je) · SO	(Soil) · O	L (Oil) · C	Other (Spe	ecify)	
SAMPLE IDENTIFICATION COOPER C Matrix SW (Surface Water) · GW (REMARKS	DAT 3/4/08	WW (Waste Wa	GW	##	Water) - S					Other (Spe	ecify)	
SAMPLE IDENTIFICATION COOPER C Matrix SW (Surface Water) · GW (REMARKS	DAT 3/4/08	9:00	ditions lo	##	water) - S		side o	of this C			ecify)	ìE
SAMPLE IDENTIFICATION COOPER C Matrix SW (Surface Water) · GW (REMARKS	DAT 3/4/08	WW (Waste Wa	ditions lo	##	water) - S	everse	side o	of this C		DA	ΛΤΕ:ΤΙΝ	
SAMPLE IDENTIFICATION COOPER C Matrix SW (Surface Water) · GW (REMARKS	DAT 3/4/08	WW (Waste Wa	ditions lo	##	water) - S	everse	side o	of this C		DA		

March 12, 2008

Report to:

Dan Simpson Hvdro Geo Chem. Inc. 51 West Wetmore Road Suite 101

cc: Jim Norris

Tuscon, AZ 85705

Bill to:

Accounts Payable Hydro Geo Chem, Inc. P. O. Box 97220 Phoenix, AZ 85060

Project ID: 872001.0 ACZ Project ID: L68039

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 07, 2008. This project has been assigned to ACZ's project number, L68039. Please reference this number in all future inquiries.

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68039. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 12, 2008. 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 guestions or other needs, please contact your Project Manager.

Sue Webber has reviewed and approved this report.





Hydro Geo Chem, Inc.

Project ID: 872001.0 Date Sampled: 03/06/08 09:50 Sample ID: **CHAMBERS**

Date Received: 03/07/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	7.7		mg/L	0.5	3	03/11/08 21:29	aml/ccp

Arizona license number: AZ0102

REPIN.02.06.05.01

L68039: Page 2 of 11

Hydro Geo Chem, Inc.

Project ID: 872001.0

Sample ID: DUP030608

Date Sampled: 03/06/08 00:00

Date Received: 03/07/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	7.7		mg/L	0.5	3	03/11/08 21:47	aml/ccp

Arizona license number: AZ0102

REPIN.02.06.05.01

L68039: Page 3 of 11

Hydro Geo Chem, Inc.

Project ID: 872001.0 Date Sampled: 03/06/08 00:00

Sample ID: FB030608 Date Received: 03/07/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	0.9	В	ma/L	0.5	3	03/11/08 22:05	aml/ccp

Arizona license number: AZ0102

REPIN.02.06.05.01

L68039: Page 4 of 11

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

Damant	Handau	Error Inc.	
Report	meader	EXDIA	nauons

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

000		
QC Sam	IMIA	IVnes
ac cuii	1910	Lypus

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L68039: Page 5 of 11

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L68039

Project ID: 872001.0

Sulfate			300.0 - Ior	n Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	50.1		51.43	mg/L	102.7	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		32.41	mg/L	108	90	110			
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	50.1		50.87	mg/L	101.5	90	110			
WG241326ICB1	ICB	03/11/08 16:39				.91	mg/L		-1.5	1.5			
L68017-03AS	AS	03/11/08 18:28	WI080306-2	150	76	219.8	mg/L	95.9	90	110			
L68017-03DUP	DUP	03/11/08 18:46			76	73.7	mg/L				3.1	20	

REPIN.01.06.05.01 L68039: Page 6 of 11

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

WORKNUM PARAMETER

ACZ ID

ACZ Project ID: L68039

METHOD

QUAL DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68039

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc. ACZ Project ID: L68039 Date Received: 872001.0

3/7/2008

Received By:

Date Printed: 3/7/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
X		
Х		
Х		
Χ		
Х		
Χ		
		Х
		Х
		Х
		Х

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)		
NA5609	2	17		

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

Notes

REPAD.03.11.00.01

L68039: Page 9 of 11

Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L68039

3/7/2008

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
L68039-01	CHAMBERS									Х		
L68039-02	DUP030608									Х		
L68039-03	FB030608									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	
Sample IDS neviewed by	

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2773 Downhill Drive Steambo	oat Springs, CO 8	30487 (800) 334	-5493							
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E-mail: danswhg	CIAC. COM		Telep	hone:	520) 29	<u>3-/:</u>	500 X	133	
Copy of Report to:										
Name: Jim Nornis			E-mai	<u>زل</u> :ا	mna	hac	inc.c	on		
Company: HGC In	С.		Telep	hone:	520	29	3-15	OOXI	1/2	
Invoice to:								•		
Name: Jim Norris			Addre	ec.	C1	<i>(.)</i>	ب وارا	nore Rd	1	
Company: HGC Inc			Addic	. 33.	Tuc			8570.		
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E-mail: Jimn@hgci If sample(s) received past hold		r if insufficient HT				1 ~ 1.3	٠٠٠	YES		
analysis before expiration, sha								NO		
If "NO" then ACZ will contact of										
is indicated, ACZ will proceed to	with the requeste	ed analyses, even i								. ()
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<u>DUP030608</u>	3/6/08	GW		X					<u> </u>	
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REMARKS/ SAMPLE DISCLO	SURES									
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March 20, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L68038

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 07, 2008. This project has been assigned to ACZ's project number, L68038. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68038. 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.

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

Scott Habermehl has reviewed and approved this report.

S. Havernehl





L68038: Page 1 of 13

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: TM-19A

ACZ Sample ID: L68038-01

Date Sampled: 03/06/08 11:40

Date Received: 03/07/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	37.9			mg/L	0.2	1	03/11/08 10:58	aeh/wfg
Magnesium, dissolved	M200.7 ICP	11.6			mg/L	0.2	1	03/11/08 10:58	aeh/wfg
Potassium, dissolved	M200.7 ICP	3.0		*	mg/L	0.3	2	03/11/08 10:58	aeh/wfg
Sodium, dissolved	M200.7 ICP	57.7			mg/L	0.3	2	03/11/08 10:58	aeh/wfg
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		119			mg/L	2	20	03/12/08 0:00	cas
Carbonate as CaCO3		19	В		mg/L	2	20	03/12/08 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	03/12/08 0:00	cas
Total Alkalinity		138		*	mg/L	2	20	03/12/08 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		11.3			%			03/20/08 0:00	calc
Sum of Anions		4.3			meq/L	0.1	0.5	03/20/08 0:00	calc
Sum of Cations		5.4			meq/L	0.1	0.5	03/20/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	15.4			mg/L	0.5	3	03/11/08 21:11	aml/ccp
Fluoride	M300.0 - Ion Chromatography	0.1	В	*	mg/L	0.1	0.5	03/11/08 21:11	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.26			mg/L	0.02	0.1	03/20/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.26			mg/L	0.02	0.1	03/07/08 19:13	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/07/08 19:13	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	280			mg/L	10	20	03/13/08 13:32	cas
Sulfate	300.0 - Ion Chromatography	56.1			mg/L	0.5	3	03/11/08 21:11	aml/ccp
TDS (calculated)	Calculation	273			mg/L	10	50	03/20/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.03						03/20/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L68038: Page 2 of 13

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: TM-7

Date Sampled: 03/06/08 13:50

Date Received: 03/07/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	49.0			mg/L	0.2	1	03/11/08 11:01	aeh/wfg
Magnesium, dissolved	M200.7 ICP	15.8		*	mg/L	0.2	1	03/11/08 11:01	aeh/wfg
Potassium, dissolved	M200.7 ICP	2.0		*	mg/L	0.3	2	03/11/08 11:01	aeh/wfg
Sodium, dissolved	M200.7 ICP	22.6		*	mg/L	0.3	2	03/11/08 11:01	aeh/wfg
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		133			mg/L	2	20	03/12/08 0:00	cas
Carbonate as CaCO3		9	В		mg/L	2	20	03/12/08 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	03/12/08 0:00	cas
Total Alkalinity		142		*	mg/L	2	20	03/12/08 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		11.9			%			03/20/08 0:00	calc
Sum of Anions		3.7			meq/L	0.1	0.5	03/20/08 0:00	calc
Sum of Cations		4.7			meq/L	0.1	0.5	03/20/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	9.0			mg/L	0.5	3	03/12/08 2:19	aml/ccp
Fluoride	M300.0 - Ion Chromatography	0.2	В	*	mg/L	0.1	0.5	03/12/08 2:19	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.04			mg/L	0.02	0.1	03/20/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.04			mg/L	0.02	0.1	03/07/08 19:19	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/07/08 19:19	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	220			mg/L	10	20	03/13/08 13:33	cas
Sulfate	300.0 - Ion Chromatography	22.5			mg/L	0.5	3	03/12/08 2:19	aml/ccp
TDS (calculated)	Calculation	223			mg/L	10	50	03/20/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	0.99						03/20/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L68038: Page 3 of 13

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

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest

Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Spikes/Fortified Matrix

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Determines sample matrix interferences, if any.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L68038: Page 4 of 13

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68038

Project ID: 872002.2

Alkalinity as CaC	:03		SM2320B	- Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241427													
WG241427PBW1	PBW	03/12/08 16:53				28.1	mg/L		-20	20			Е
WG241427LCSW2	LCSW	03/12/08 17:03	WC080131-1	820		807.2	mg/L	98.4	90	110			
L68041-08DUP	DUP	03/12/08 19:14			89	100.9	mg/L				12.5	20	
WG241427PBW2	PBW	03/12/08 19:19				20.7	mg/L		-20	20			
WG241427LCSW5	LCSW	03/12/08 19:30	WC080131-1	820		797.4	mg/L	97.2	90	110			
Calcium, dissolv	ed		M200.7 IC	P									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		97.33	mg/L	97.3	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L	-	-0.6	0.6			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	67.97008		73.52	mg/L	108.2	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	67.97008	225	283.12	mg/L	85.5	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	67.97008	225	286.85	mg/L	91	85	115	1.31	20	
L68038-02AS	AS	03/11/08 11:04	11080307-6	67.97008	49	123.78	mg/L	110	85	115	1.01	20	
L68038-02ASD	ASD	03/11/08 11:07	11080307-6	67.97008	49	126.88	mg/L	114.6	85	115	2.47	20	
	7.00	00/11/00 11:07					mg/L	114.0		110	2.77	20	
Chloride ACZ ID	Type	Analyzed	PCN/SCN	on Chroma	atograpny Sample	Found	Unito	Rec	Lower	Upper	RPD	Limit	Qual
ACZ ID	туре	Allalyzeu	PCN/SCN	QC	Sample	roulia	UIIIIS	Rec	Lower	Opper	KPD	LIIIIII	Quai
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
	ICV	03/10/08 21:26	WI080220-1	19.98		20.34	mg/L	101.8	90	110			
WG241326ICV	ICV ICB	03/10/08 21:26 03/10/08 21:44	WI080220-1	19.98		20.34 U	mg/L mg/L	101.8	90 -1.5	110 1.5			
WG241326ICV WG241326ICB			WI080220-1 WI080306-2	19.98 30			•	101.8 104.8					
WG241326ICV WG241326ICB WG241326LFB	ICB	03/10/08 21:44			9.3	U	mg/L		-1.5	1.5			
WG241326ICB WG241326LFB L68017-03AS	ICB LFB	03/10/08 21:44 03/10/08 22:02	WI080306-2	30	9.3 9.3	U 31.43	mg/L mg/L	104.8	-1.5 90	1.5 110	0.5	20	
WG241326 WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1	ICB LFB AS	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52	WI080306-2	30		U 31.43 37.31	mg/L mg/L mg/L mg/L	104.8	-1.5 90	1.5 110	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1	ICB LFB AS DUP	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10	WI080306-2 WI080306-2	30 30		U 31.43 37.31 9.25	mg/L mg/L mg/L	104.8 93.4	-1.5 90 90	1.5 110 110	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1	ICB LFB AS DUP ICV	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21	WI080306-2 WI080306-2	30 30		U 31.43 37.31 9.25 20.24	mg/L mg/L mg/L mg/L mg/L	104.8 93.4	-1.5 90 90	1.5 110 110	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1	ICB LFB AS DUP ICV	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21	WI080306-2 WI080306-2	30 30		U 31.43 37.31 9.25 20.24	mg/L mg/L mg/L mg/L mg/L	104.8 93.4	-1.5 90 90	1.5 110 110	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1 WG241373	ICB LFB AS DUP ICV ICB	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21 03/11/08 16:39	WI080306-2 WI080306-2 WI080220-1	30 30 19.98		U 31.43 37.31 9.25 20.24 U	mg/L mg/L mg/L mg/L mg/L	104.8 93.4 101.3	-1.5 90 90 90 -1.5	1.5 110 110 110 1.5	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1 WG241373 WG241373ICV WG241373ICV	ICB LFB AS DUP ICV ICB	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21 03/11/08 16:39	WI080306-2 WI080306-2 WI080220-1	30 30 19.98		U 31.43 37.31 9.25 20.24 U	mg/L mg/L mg/L mg/L mg/L mg/L	104.8 93.4 101.3	-1.5 90 90 90 -1.5	1.5 110 110 110 1.5	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1 WG241373 WG241373ICV WG241373ICB WG241373LFB	ICB LFB AS DUP ICV ICB	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21 03/11/08 16:39 03/11/08 23:00 03/11/08 23:18	WI080306-2 WI080306-2 WI080220-1	30 30 19.98		U 31.43 37.31 9.25 20.24 U 20.35	mg/L mg/L mg/L mg/L mg/L mg/L	104.8 93.4 101.3	-1.5 90 90 90 -1.5 90 -1.5	1.5 110 110 110 1.5	0.5	20	
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP WG241326ICV1 WG241326ICB1 WG241373 WG241373ICV WG241373ICB WG241373LFB L67956-01AS	ICB LFB AS DUP ICV ICB ICV ICB AS	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21 03/11/08 16:39 03/11/08 23:00 03/11/08 23:18 03/11/08 23:36 03/12/08 0:30	WI080306-2 WI080306-2 WI080220-1 WI080220-1 WI080306-2	30 30 19.98 19.98	9.3	U 31.43 37.31 9.25 20.24 U 20.35 U 28.34 54.66	mg/L mg/L mg/L mg/L mg/L mg/L mg/L mg/L	104.8 93.4 101.3 101.9 94.5	-1.5 90 90 -1.5 90 -1.5	1.5 110 110 110 1.5 110 1.5			
WG241326ICV WG241326ICB WG241326LFB L68017-03AS L68017-03DUP	ICB LFB AS DUP ICV ICB ICV ICB	03/10/08 21:44 03/10/08 22:02 03/11/08 2:52 03/11/08 3:10 03/11/08 16:21 03/11/08 16:39 03/11/08 23:00 03/11/08 23:18 03/11/08 23:36	WI080306-2 WI080306-2 WI080220-1 WI080220-1 WI080306-2	30 30 19.98 19.98	9.3	U 31.43 37.31 9.25 20.24 U 20.35 U 28.34	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	104.8 93.4 101.3 101.9 94.5	-1.5 90 90 -1.5 90 -1.5	1.5 110 110 110 1.5 110 1.5	0.5	20	

REPIN.01.06.05.01 L68038: Page 5 of 13 (800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68038

Project ID: 872002.2

Fluoride			M300.0 -	Ion Chrom	atography	/							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	4		4.02	mg/L	100.5	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-0.3	0.3			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	1.5		1.57	mg/L	104.7	90	110			
L68017-03AS	AS	03/11/08 2:52	WI080306-2	1.5	U	1.16	mg/L	77.3	90	110			M2
L68017-03DUP	DUP	03/11/08 3:10			U	U	mg/L				0	20	RA
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	4		3.92	mg/L	98	90	110			
WG241326ICB1	ICB	03/11/08 16:39				U	mg/L		-0.3	0.3			
WG241373													
WG241373ICV	ICV	03/11/08 23:00	WI080220-1	4		4.03	mg/L	100.8	90	110			
WG241373ICB	ICB	03/11/08 23:18				U	mg/L		-0.3	0.3			
WG241373LFB	LFB	03/11/08 23:36	WI080306-2	1.5		1.39	mg/L	92.7	90	110			
L67956-01AS	AS	03/12/08 0:30	WI080306-2	1.5	.2	1.55	mg/L	90	90	110			
L67956-01DUP	DUP	03/12/08 0:48			.2	.23	mg/L				14	20	RA
WG241373ICV1	ICV	03/12/08 15:51	WI080220-1	4		3.94	mg/L	98.5	90	110			
WG241373ICB1	ICB	03/12/08 16:09				U	mg/L		-0.3	0.3			
Magnesium, dis	solved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		100.15	mg/L	100.2	95	105			
WG241325ICB	ICB	03/11/08 9:58	11000110-0	100		U	mg/L	100.2	-0.6	0.6			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	49.96908		55.13	mg/L	110.3	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	49.96908	51.7	105.65	mg/L	108	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	49.96908	51.7	105.46	mg/L	107.6	85	115	0.18	20	
L68038-02AS	AS	03/11/08 11:04	11080307-6	49.96908	15.8	72.5	mg/L	113.5	85	115			
L68038-02ASD	ASD	03/11/08 11:07	11080307-6	49.96908	15.8	73.87	mg/L	116.2	85	115	1.87	20	MA
Nitrate/Nitrite as	s N, diss	solved	M353.2 -	Automated	I Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241286													
WG241286ICV	ICV	03/07/08 19:01	WI071212-1	2.416		2.25	mg/L	93.1	90	110			
WG241286ICB	ICB	03/07/08 19:03				U	mg/L	- 5	-0.06	0.06			
WG241286LFB	LFB	03/07/08 19:06	WI070911-4	2		1.976	mg/L	98.8	90	110			
L68036-01AS	AS	03/07/08 19:12	WI070911-4	2	.37	2.396	mg/L	101.3	90	110			
L68038-01DUP	DUP	03/07/08 19:15			.26	.253	mg/L				2.7	20	
Nitrite as N, dis	solved		M353.2 -	Automated	l Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241286													
WG241286ICV	ICV	03/07/08 19:01	WI071212-1	.609		.583	mg/L	95.7	90	110			
WG241286ICB	ICB	03/07/08 19:03		.000		U	mg/L	20.1	-0.03	0.03			
WG241286LFB	LFB	03/07/08 19:06	WI070911-4	1		1.003	mg/L	100.3	90	110			
L68036-01AS	AS	03/07/08 19:12	WI070911-4	1		1.045	mg/L	104.5	90	110			
L68038-01DUP	DUP	03/07/08 19:15		•	U	U	mg/L		30		0	20	RA
		, , , , , , , , , , , , , , , , , , , ,					····•						

REPIN.01.06.05.01 L68038: Page 6 of 13 Hydro Geo Chem, Inc.

Project ID: 872002.2

ACZ Project ID: L68038

Potassium, diss	olved		M200.7	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	II080115-3	20		20.4	mg/L	102	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-0.9	0.9			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	99.76186		112.02	mg/L	112.3	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	99.76186	13.4	129.03	mg/L	115.9	85	115			М
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	99.76186	13.4	127.97	mg/L	114.8	85	115	0.82	20	
L68038-02AS	AS	03/11/08 11:04	11080307-6	99.76186	2	118.84	mg/L	117.1	85	115			M
L68038-02ASD	ASD	03/11/08 11:07	11080307-6	99.76186	2	119.55	mg/L	117.8	85	115	0.6	20	M
Residue, Filtera	ole (TDS) @180C	160.1 / 8	SM2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241499													
WG241499PBW	PBW	03/13/08 13:30				U	mg/L		-20	20			
WG241499LCSW	LCSW	03/13/08 13:31	PCN28837	260		282	mg/L	108.5	80	120			
L68055-01DUP	DUP	03/13/08 13:45			3160	3076	mg/L				2.7	20	
Sodium, dissolv	ed		M200.7	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		101.49	mg/L	101.5	95	105			
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		99.2	mg/L	99.2	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-6	6			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-0.9	0.9			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	98.21624		107.4	mg/L	109.4	85	115			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	98.21624		109.7	mg/L	111.7	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	98.21624	30.7	142.67	mg/L	114	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	98.21624	30.7	141.24	mg/L	112.5	85	115	1.01	20	
L68038-02AS	AS	03/11/08 11:04	11080307-6	98.21624	22.6	135.87	mg/L	115.3	85	115			
L68038-02ASD	ASD	03/11/08 11:07	11080307-6	98.21624	22.6	137.09	mg/L	116.6	85	115	0.89	20	М

REPIN.01.06.05.01 L68038: Page 7 of 13

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68038

Project ID: 872002.2

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	50.1		51.43	mg/L	102.7	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		32.41	mg/L	108	90	110			
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	50.1		50.87	mg/L	101.5	90	110			
WG241326ICB1	ICB	03/11/08 16:39				.91	mg/L		-1.5	1.5			
L68017-03AS	AS	03/11/08 18:28	WI080306-2	150	76	219.8	mg/L	95.9	90	110			
L68017-03DUP	DUP	03/11/08 18:46			76	73.7	mg/L				3.1	20	
WG241373													
WG241373ICV	ICV	03/11/08 23:00	WI080220-1	50.1		51.34	mg/L	102.5	90	110			
WG241373ICB	ICB	03/11/08 23:18				.93	mg/L		-1.5	1.5			
WG241373LFB	LFB	03/11/08 23:36	WI080306-2	30		29.1	mg/L	97	90	110			
WG241373ICV1	ICV	03/12/08 15:51	WI080220-1	50.1		51.49	mg/L	102.8	90	110			
WG241373ICB1	ICB	03/12/08 16:09				.92	mg/L		-1.5	1.5			
WG241373LFB	LFB	03/12/08 16:27	WI080306-2	30		31.99	mg/L	106.6	90	110			
L67956-01AS	AS	03/12/08 17:03	WI080306-2	600	890	1520	mg/L	105	90	110			
L67956-01DUP	DUP	03/12/08 17:21			890	882	mg/L				0.9	20	

REPIN.01.06.05.01 L68038: Page 8 of 13

Inorganic Extended Qualifier Report

ACZ Project ID: L68038

B4 Target analyte detected in blank at or above the

acceptance criteria.

Hydro Geo Chem, Inc.

WG241427 Total Alkalinity

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68038-01	WG241325	Potassium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG241326	Fluoride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241286	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241427	Total Alkalinity	SM2320B - Titration	В4	Target analyte detected in blank at or above the acceptance criteria.
L68038-02	WG241325	Magnesium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
		Potassium, dissolved	M200.7 ICP	M1	Matrix spike recovery was high, the recovery of the associated control sample (LCS or LFB) was acceptable.
		Sodium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG241373	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241286	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

SM2320B - Titration

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68038

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.ACZ Project ID:L68038872002.2Date Received:3/7/2008

Description

ed Rv.

Received By:

Date Printed: 3/7/2008

Receipt Verification

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

YES	NO	NA
		Х
		Χ
		Χ
Х		
Χ		
Χ		
Χ		
Х		
		Х
		Х
		X
		Х

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)
NA5609	2	17

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: Received By: L68038

3/7/2008

Sample Container Preservation

S	SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L	-68038-01	TM-19A		Υ									
L	-68038-02	TM-7		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	

ACZ		ratories				38			СН	AIN	of C	UST	ODY
2773 Downhill Dr Report to:	rve Steamboa	t Springs, CO	80487 (8	(00) 334	1-5493								
Name: Dan	Simpson				Addr	ess:	51	W.	W	etm	ore 1	W/	
Company: 14	rdro Geo	Chem II	ا				Tue	Son	, A	Z '	857	'05	
E-mail: da	rsw.hac	incrcom			Telep	hone:	520) Z	93-L	500	Χl	/33	
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3/4/04: 1500 MS

10:03

March 12, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L68020

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 06, 2008. This project has been assigned to ACZ's project number, L68020. Please reference this number in all future inquiries.

Bill to:

Accounts Payable Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68020. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 12, 2008. 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.

Sue Webber has reviewed and approved this report.





HOWARD

Inorganic Analytical Results

Hydro Geo Chem, Inc.

ACZ Sample ID: **L68020-01**

Project ID: 872001.0 Date Sampled: 03/04/08 18:10

Date Received: 03/06/08

Sample Matrix: Ground Water

Wet Chemistry

Sample ID:

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	571		ma/L	5	30	03/11/08 20:35	aml/ccp

Arizona license number: AZ0102

METZLER

Inorganic Analytical Results

Hydro Geo Chem, Inc.

Date Sampled: 03/05/08 10:10

Project ID: 872001.0

Date Received: 03/06/08

Sample Matrix: Ground Water

Wet Chemistry

Sample ID:

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	317		ma/l	5	30	03/11/08 20:53	aml/ccn

Arizona license number: AZ0102

REPIN.02.06.05.01

L68020: Page 3 of 10

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

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

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QU.	Sam	pie	LYE	es

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

Inorganic QC Summary

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68020

Project ID: 872001.0

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	50.1		51.43	mg/L	102.7	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		32.41	mg/L	108	90	110			
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	50.1		50.87	mg/L	101.5	90	110			
WG241326ICB1	ICB	03/11/08 16:39				.91	mg/L		-1.5	1.5			
L68017-03AS	AS	03/11/08 18:28	WI080306-2	150	76	219.8	mg/L	95.9	90	110			
L68017-03DUP	DUP	03/11/08 18:46			76	73.7	mg/L				3.1	20	

REPIN.01.06.05.01 L68020: Page 5 of 10

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L68020

QUAL DESCRIPTION

ACZID WORKNUM PARAMETER METHOD

No extended qualifiers associated with this analysis

REPAD.15.06.05.01

L68020: Page 6 of 10

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68020

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

ACZ Project ID: L68020

872001.0 Date Received: 3/6/2008

Received By:

Date Printed: 3/6/2008

Receipt Verification

1) Does this project require special handling procedures such as CLP protocol?

2) Are the custody seals on the cooler intact?

3) Are the custody seals on the sample containers intact?

4) Is there a Chain of Custody or other directive shipping papers present?

5) Is the Chain of Custody complete?

6) Is the Chain of Custody in agreement with the samples received?

7) Is there enough sample for all requested analyses?

8) Are all samples within holding times for requested analyses?

9) Were all sample containers received intact?

10) Are the temperature blanks present?

11) Are the trip blanks (VOA and/or Cyanide) present?

12) Are samples requiring no headspace, headspace free?

13) Do the samples that require a Foreign Soils Permit have one?

YES	NO	NA
		Х
		Х
		Χ
Х		
Х		
Х		
Х		
Х		
Х		
		Х
		Х
		Х
		Χ

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)
2111	1.6	14

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received:

L68020

3/6/2008

Received By:

	Preserva	

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L68020-01	HOWARD									Х		
L68020-02	METZLER									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	

LV8020

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Name:	Im Nocris				E-ma	ail:	Simo	10 hg	cina	C0 100		
Company:	HGC Inc.				Teler	phone:	520	293.	-150C	> XII	/2	
Invoice to:								 _				
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White - Return with sample.

Yellow - Retain for your records.

March 21, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L68019

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 06, 2008. This project has been assigned to ACZ's project number, L68019. Please reference this number in all future inquiries.

Bill to:

Accounts Payable

Hydro Geo Chem, Inc. P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68019. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 21, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havermehl





Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: TM-16

ACZ Sample ID: **L68019-01**

Date Sampled: 03/05/08 13:20

Date Received: 03/06/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	225			mg/L	0.2	1	03/11/08 10:15	aeh/wfg
Magnesium, dissolved	M200.7 ICP	51.7			mg/L	0.2	1	03/11/08 10:15	aeh/wfg
Potassium, dissolved	M200.7 ICP	13.4		*	mg/L	0.3	2	03/11/08 10:15	aeh/wfg
Sodium, dissolved	M200.7 ICP	30.7			mg/L	0.3	2	03/11/08 10:15	aeh/wfg
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		205			mg/L	2	20	03/07/08 0:00	ear/cas
Carbonate as CaCO3			U		mg/L	2	20	03/07/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	03/07/08 0:00	ear/cas
Total Alkalinity		205			mg/L	2	20	03/07/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.2			%			03/21/08 0:00	calc
Sum of Anions		15.8			meq/L	0.1	0.5	03/21/08 0:00	calc
Sum of Cations		17.2			meq/L	0.1	0.5	03/21/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	28.9			mg/L	0.5	3	03/11/08 3:46	aml/ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	03/11/08 3:46	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	6.8			mg/L	0.1	0.5	03/21/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	6.9			mg/L	0.1	0.5	03/06/08 18:54	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.01	В	*	mg/L	0.01	0.05	03/06/08 18:38	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	1030			mg/L	10	20	03/11/08 14:14	ear
Sulfate	300.0 - Ion Chromatography	497			mg/L	5	30	03/11/08 19:22	aml/ccp
TDS (calculated)	Calculation	1000			mg/L	10	50	03/21/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.03						03/21/08 0:00	calc

Arizona license number: AZ0102

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: TM-42

ACZ Sample ID: L68019-02

Date Sampled: 03/05/08 14:40

Date Received: 03/06/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	185			mg/L	0.2	1	03/13/08 12:49	aeh/erf
Magnesium, dissolved	M200.7 ICP	55.8			mg/L	0.2	1	03/13/08 12:49	aeh/erf
Potassium, dissolved	M200.7 ICP	10.4			mg/L	0.3	2	03/13/08 12:49	aeh/erf
Sodium, dissolved	M200.7 ICP	37.9			mg/L	0.3	2	03/13/08 12:49	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		186			mg/L	2	20	03/07/08 0:00	ear/cas
Carbonate as CaCO3			U		mg/L	2	20	03/07/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	03/07/08 0:00	ear/cas
Total Alkalinity		186			mg/L	2	20	03/07/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		2.3			%			03/21/08 0:00	calc
Sum of Anions		15.1			meq/L	0.1	0.5	03/21/08 0:00	calc
Sum of Cations		15.8			meq/L	0.1	0.5	03/21/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	27.0			mg/L	0.5	3	03/17/08 15:20	aml
Fluoride	M300.0 - Ion Chromatography	0.2	В	*	mg/L	0.1	0.5	03/11/08 4:04	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	6.55			mg/L	0.06	0.3	03/21/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	6.55			mg/L	0.06	0.3	03/06/08 18:56	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/06/08 18:41	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	980			mg/L	10	20	03/11/08 14:16	ear
Sulfate	300.0 - Ion Chromatography	482			mg/L	5	30	03/19/08 18:37	aml
TDS (calculated)	Calculation	939			mg/L	10	50	03/21/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.04						03/21/08 0:00	calc

Arizona license number: AZ0102

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68019

Project ID: 872002.2

Alkalinity as CaC	CO3		SM2320B	- Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241225													
WG241225PBW2	PBW	03/06/08 19:30				U	mg/L		-20	20			
WG241225LCSW5	LCSW	03/06/08 19:43	WC080131-1	820		840.2	mg/L	102.5	90	110			
WG241225PBW3	PBW	03/06/08 22:18				U	mg/L		-20	20			
WG241225LCSW8	LCSW	03/06/08 22:31	WC080131-1	820		827	mg/L	100.9	90	110			
L68019-02DUP	DUP	03/07/08 2:21			186	177.6	mg/L				4.6	20	
WG241225LCSW11	LCSW	03/07/08 2:33	WC080131-1	820		777.3	mg/L	94.8	90	110			
Calcium, dissolv	red		M200.7 IC	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	11080115-3	100		97.33	mg/L	97.3	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-0.6	0.6			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	67.97008		73.52	mg/L	108.2	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	67.97008	225	283.12	mg/L	85.5	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	67.97008	225	286.85	mg/L	91	85	115	1.31	20	
WG241493													
WG241493ICV	ICV	03/13/08 12:29	II080115-3	100		101.12	mg/L	101.1	95	105			
WG241493ICB	ICB	03/13/08 12:33				U	mg/L		-0.6	0.6			
WG241493LFB	LFB	03/13/08 12:46	11080312-2	67.97008		68.03	mg/L	100.1	85	115			
L68060-01AS	AS	03/13/08 12:59	II080312-2	67.97008	42.9	109.4	mg/L	97.8	85	115			
L68060-01ASD	ASD	03/13/08 13:02	11080312-2	67.97008	42.9	109.14	mg/L	97.5	85	115	0.24	20	
Chloride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	19.98		20.34	mg/L	101.8	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		31.43	mg/L	104.8	90	110			
L68017-03AS	AS	03/11/08 2:52	WI080306-2	30	18.6	37.31	mg/L	93.4	90	110			
L68017-03DUP	DUP	03/11/08 3:10			18.6	9.25	mg/L				0.5	20	
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	19.98		20.24	mg/L	101.3	90	110			
WG241326ICB1	ICB	03/11/08 16:39				U	mg/L		-1.5	1.5			
WG241583													
WG241583ICV	ICV	03/17/08 14:08	WI080220-1	19.98		18.97	mg/L	94.9	90	110			
******	ICB	03/17/08 14:26				U	mg/L		-1.5	1.5			
							-	0.4.0					
WG241583ICB	LFB	03/17/08 14:44	WI080306-2	30		28.26	mg/L	94.2	90	110			
WG241583ICB WG241583LFB L68019-02AS		03/17/08 14:44 03/17/08 15:38	WI080306-2 WI080306-2	30 30	27	28.26 54.45	mg/L mg/L	94.2 91.5	90	110 110			

REPIN.01.06.05.01 L68019: Page 5 of 13 (800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68019

Project ID: 872002.2

Fluoride			M300.0 -	Ion Chrom	atography	/							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	4		4.02	mg/L	100.5	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-0.3	0.3			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	1.5		1.57	mg/L	104.7	90	110			
L68017-03AS	AS	03/11/08 2:52	WI080306-2	1.5	U	1.16	mg/L	77.3	90	110			M2
L68017-03DUP	DUP	03/11/08 3:10			U	U	mg/L				0	20	RA
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	4		3.92	mg/L	98	90	110			
WG241326ICB1	ICB	03/11/08 16:39				U	mg/L		-0.3	0.3			
Magnesium, dis	solved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		100.15	mg/L	100.2	95	105			
WG241325ICB	ICB	03/11/08 9:58	110001100	100		U	mg/L	100.2	-0.6	0.6			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	49.96908		55.13	mg/L	110.3	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	49.96908	51.7	105.65	mg/L	108	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	49.96908	51.7	105.46	mg/L	107.6	85	115	0.18	20	
WG241493							J						
WG241493ICV	ICV	03/13/08 12:29	11080115-3	100		102.8	mg/L	102.8	95	105			
WG241493ICB	ICB	03/13/08 12:33	110001100	100		U	mg/L	102.0	-0.6	0.6			
WG241493LFB	LFB	03/13/08 12:46	11080312-2	49.96908		50.63	mg/L	101.3	85	115			
L68060-01AS	AS	03/13/08 12:59	11080312-2	49.96908	1.3	54.23	mg/L	105.9	85	115			
L68060-01ASD	ASD	03/13/08 13:02	11080312-2	49.96908	1.3	53.93	mg/L	105.3	85	115	0.55	20	
Nitrate/Nitrite as	e N. diee			Automated	l Cadmiur								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found		Rec	Lower	Upper	RPD	Limit	Qual
	Турс	Analyzeu	1 011/0011	40	Oumpic	1 Ourid	Onits	nco	Lower	Оррсі	IN D		Quai
WG241233							_						
WG241233ICV	ICV	03/06/08 18:13	WI071212-1	2.416		2.294	mg/L	95	90	110			
WG241233ICB	ICB	03/06/08 18:14	14/10700444			U	mg/L		-0.06	0.06			
WG241233LFB	LFB	03/06/08 18:18	WI070911-4	2		1.997	mg/L	99.9	90	110			
L68019-01AS L68019-02DUP	AS DUP	03/06/08 18:55	WI070911-4	10	6.9	17.3	mg/L	104	90	110	0.1	20	
L660 19-02DUP	DUP	03/06/08 18:58			6.55	6.555	mg/L				0.1	20	
Nitrite as N, dis				Automated									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241233													
WG241233ICV	ICV	03/06/08 18:13	WI071212-1	.609		.6	mg/L	98.5	90	110			
WG241233ICB	ICB	03/06/08 18:14				.011	mg/L		-0.03	0.03			
WG241233LFB	LFB	03/06/08 18:18	WI070911-4	1		.997	mg/L	99.7	90	110			
L68019-01AS	AS	03/06/08 18:40	WI070911-4	1	.01	1.008	mg/L	99.8	90	110			
L68019-02DUP	DUP	03/06/08 18:42			U	U	mg/L				0	20	RA

REPIN.01.06.05.01 L68019: Page 6 of 13

ACZ Project ID: L68019

(800) 334-5493

Hydro Geo Chem, Inc.

Project ID: 872002.2

Potassium, diss	olved		M200.7	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	11080115-3	20		20.4	mg/L	102	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-0.9	0.9			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	99.76186		112.02	mg/L	112.3	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	99.76186	13.4	129.03	mg/L	115.9	85	115			N
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	99.76186	13.4	127.97	mg/L	114.8	85	115	0.82	20	
WG241493													
WG241493ICV	ICV	03/13/08 12:29	II080115-3	20		21.06	mg/L	105.3	95	105			
WG241493ICB	ICB	03/13/08 12:33				U	mg/L		-0.9	0.9			
WG241493LFB	LFB	03/13/08 12:46	11080312-2	99.76186		102.69	mg/L	102.9	85	115			
L68060-01AS	AS	03/13/08 12:59	11080312-2	99.76186	.4	108.65	mg/L	108.5	85	115			
L68060-01ASD	ASD	03/13/08 13:02	11080312-2	99.76186	.4	108.22	mg/L	108.1	85	115	0.4	20	
Residue, Filtera	ole (TDS) @180C	160.1 / 9	SM2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241381													
WG241381PBW	PBW	03/11/08 14:05				U	mg/L		-20	20			
WG241381LCSW	LCSW	03/11/08 14:07	PCN28837	260		294	mg/L	113.1	80	120			
L68037-02DUP	DUP	03/11/08 14:33			120	130	mg/L				8	20	
Sodium, dissolv	ed		M200.7	ICP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241325													
WG241325ICV	ICV	03/11/08 9:55	11080115-3	100		101.49	mg/L	101.5	95	105			
WG241325ICV	ICV	03/11/08 9:55	II080115-3	100		99.2	mg/L	99.2	95	105			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-0.9	0.9			
WG241325ICB	ICB	03/11/08 9:58				U	mg/L		-6	6			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	98.21624		107.4	mg/L	109.4	85	115			
WG241325LFB	LFB	03/11/08 10:12	11080307-6	98.21624		109.7	mg/L	111.7	85	115			
L68019-01AS	AS	03/11/08 10:18	11080307-6	98.21624	30.7	142.67	mg/L	114	85	115			
L68019-01ASD	ASD	03/11/08 10:21	11080307-6	98.21624	30.7	141.24	mg/L	112.5	85	115	1.01	20	
WG241493													
WG241493ICV	ICV	03/13/08 12:29	11080115-3	100		101.8	mg/L	101.8	95	105			
WG241493ICV	ICV	03/13/08 12:29	II080115-3	100		103.93	mg/L	103.9	95	105			
WG241493ICB	ICB	03/13/08 12:33				U	mg/L		-6	6			
WG241493ICB	ICB	03/13/08 12:33				U	mg/L		-0.9	0.9			
WG241493LFB	LFB	03/13/08 12:46	11080312-2	98.21624		98.3	mg/L	100.1	85	115			
WG241493LFB	LFB	03/13/08 12:46	11080312-2	98.21624		101.01	mg/L	102.8	85	115			
	AS	03/13/08 12:59	11080312-2	98.21624	16.2	120.51	mg/L	106.2	85	115			
L68060-01AS	AS	00/10/00 12:00	11000012 2	30.21024	10.2	120.01	mg/L	100.2	00	110			

REPIN.01.06.05.01 L68019: Page 7 of 13 (800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68019

Project ID: 872002.2

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	50.1		51.43	mg/L	102.7	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		32.41	mg/L	108	90	110			
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	50.1		50.87	mg/L	101.5	90	110			
WG241326ICB1	ICB	03/11/08 16:39				.91	mg/L		-1.5	1.5			
L68017-03AS	AS	03/11/08 18:28	WI080306-2	150	152	219.8	mg/L	95.9	90	110			
L68017-03DUP	DUP	03/11/08 18:46			152	73.7	mg/L				3.1	20	
WG241583													
WG241583ICV1	ICV	03/19/08 17:24	WI080220-1	50.1		50.2	mg/L	100.2	90	110			
WG241583ICB1	ICB	03/19/08 17:43				U	mg/L		-1.5	1.5			
WG241583LFB2	LFB	03/19/08 18:01	WI080306-2	30		29.95	mg/L	99.8	90	110			
L68019-02AS	AS	03/19/08 18:55	WI080306-2	300	482	771.9	mg/L	96.6	90	110			
L68019-02DUP	DUP	03/19/08 19:13			482	453.5	mg/L				6.1	20	

REPIN.01.06.05.01 L68019: Page 8 of 13

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L68019

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68019-01	WG241325	Potassium, dissolved	M200.7 ICP	MA	Recovery for either the spike or spike duplicate was outside of the acceptance limits; the RPD was within the acceptance limits.
	WG241326	Fluoride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241233	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L68019-02	WG241326	Fluoride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241233	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	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

Hydro Geo Chem, Inc. ACZ Project ID: L68019

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

ACZ Project ID: L68019

872002.2 Date Received: 3/6/2008

Received By:

Date Printed: 3/6/2008

Receipt Verification

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

YES	NO	NA
		Х
		Χ
		Х
Х		
Х		
Х		
X		
X		
Χ		
		Х
		Х
		Х
		Χ

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)
2111	1.6	14

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: Received By: L68019

3/6/2008

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
L68019-01	TM-16		Υ									
L68019-02	TM-42		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

108019

	Labo			5402		·			СНА	AIN o	f CUST	ODY
Report to:	Dinve Steamboat Sp	nings, CO 80	407 (000) 334	-0493								
	an Simpson				A al alma		<u></u>	/ . 1	1.1-		/S. A.	· .
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Invoice to:	k.							,				
Name:	Jim Norri	(Addre	ess:	51	41	We	+ man	e DI	
Company:	HGC TA						Til		. 14		5705	
E-mail:	Simon ha		· m	7	Telep	hone:	$\sqrt{\Omega}$	2) 29		500	$\propto 112$	
	ceived past holding			 nt HT rem			ete	ر کر رک	13.00		YES X	
analysis befor	e expiration, shall A	CZ proceed	with requeste	d short F	tT analy	/ses?					NO	
	CZ will contact clie											_
	CZ will proceed wit	h the reques	ted analyses,	even if H					•	int ov		-1)
_	_:	. 1			AN	ALISE	S KEQU	-51145	(attach h	st or us	e quote nun	nber)
	MCQB-6	3		-	2		,					
Project/PO #:		2 ./	160	_	Containers	X	122					
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March 13, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L67990

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 05, 2008. This project has been assigned to ACZ's project number, L67990. Please reference this number in all future inquiries.

Bill to:

Accounts Payable Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67990. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 13, 2008. 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.

Sue Webber has reviewed and approved this report.





Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: BF-1

ACZ Sample ID: **L67990-01**

Date Sampled: 03/04/08 13:10

Date Received: 03/05/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	621			mg/L	0.2	1	03/06/08 18:31	aeh/erf
Magnesium, dissolved	M200.7 ICP	100			mg/L	0.2	1	03/06/08 18:31	aeh/erf
Potassium, dissolved	M200.7 ICP	4.5			mg/L	0.3	2	03/06/08 18:31	aeh/erf
Sodium, dissolved	M200.7 ICP	60.2			mg/L	0.3	2	03/06/08 18:31	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		610			mg/L	2	20	03/06/08 0:00	ear/cas
Carbonate as CaCO3			U		mg/L	2	20	03/06/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	03/06/08 0:00	ear/cas
Total Alkalinity		610		*	mg/L	2	20	03/06/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		1.4			%			03/12/08 0:00	calc
Sum of Anions		40.8			meq/L	0.1	0.5	03/12/08 0:00	calc
Sum of Cations		42.0			meq/L	0.1	0.5	03/12/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	30.4			mg/L	0.5	3	03/11/08 0:27	aml/ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	03/11/08 0:27	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.92			mg/L	0.02	0.1	03/12/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.92			mg/L	0.02	0.1	03/05/08 19:40	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	03/05/08 19:40	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	2850			mg/L	10	20	03/07/08 9:19	cas
Sulfate	300.0 - Ion Chromatography	1320			mg/L	30	100	03/11/08 17:15	aml/ccp
TDS (calculated)	Calculation	2510			mg/L	10	50	03/12/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.14						03/12/08 0:00	calc

Arizona license number: AZ0102

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: GL-3

ACZ Sample ID: L67990-02

Date Sampled: 03/04/08 11:55

Date Received: 03/05/08

Sample Matrix: Ground Water

Metals Analysis Parameter	EPA Method	Result	Qual	YO	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	46.7	Quai	ΛQ	mg/L	0.2	1	03/06/08 18:35	aeh/erf
Magnesium, dissolved	M200.7 ICP	22.8			•	0.2	1	03/06/08 18:35	aen/en
,					mg/L				
Potassium, dissolved	M200.7 ICP	2.6			mg/L	0.3	2	03/06/08 18:35	aeh/erf
Sodium, dissolved	M200.7 ICP	18.7			mg/L	0.3	2	03/06/08 18:35	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		192			mg/L	2	20	03/06/08 0:00	ear/cas
Carbonate as CaCO3			U		mg/L	2	20	03/06/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	03/06/08 0:00	ear/cas
Total Alkalinity		192		*	mg/L	2	20	03/06/08 0:00	ear/cas
Cation-Anion Balance	Calculation				-				
Cation-Anion Balance		3.0			%			03/12/08 0:00	calc
Sum of Anions		4.8			meq/L	0.1	0.5	03/12/08 0:00	calc
Sum of Cations		5.1			meq/L	0.1	0.5	03/12/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	20.3			mg/L	0.5	3	03/11/08 0:45	aml/ccp
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	03/11/08 0:45	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	0.75			mg/L	0.02	0.1	03/12/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.77			mg/L	0.02	0.1	03/05/08 19:42	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	В	*	mg/L	0.01	0.05	03/05/08 19:42	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	260			mg/L	10	20	03/07/08 9:20	cas
Sulfate	300.0 - Ion Chromatography	20.3			mg/L	0.5	3	03/11/08 0:45	aml/ccp
TDS (calculated)	Calculation	250			mg/L	10	50	03/12/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.04			-			03/12/08 0:00	calc

Arizona license number: AZ0102

Project ID: 872002.2

Sample ID: TM-2A

ACZ Sample ID: L67990-03

Date Sampled: 03/04/08 14:25

Date Received: 03/05/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	12.6			mg/L	0.2	1	03/06/08 18:39	aeh/erf
Magnesium, dissolved	M200.7 ICP	5.8			mg/L	0.2	1	03/06/08 18:39	aeh/erf
Potassium, dissolved	M200.7 ICP	2.2			mg/L	0.3	2	03/06/08 18:39	aeh/erf
Sodium, dissolved	M200.7 ICP	58.0			mg/L	0.3	2	03/06/08 18:39	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		146			mg/L	2	20	03/06/08 0:00	ear/cas
Carbonate as CaCO3		9	В		mg/L	2	20	03/06/08 0:00	ear/cas
Hydroxide as CaCO3			U		mg/L	2	20	03/06/08 0:00	ear/cas
Total Alkalinity		155		*	mg/L	2	20	03/06/08 0:00	ear/cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		1.4			%			03/12/08 0:00	calc
Sum of Anions		3.6			meq/L	0.1	0.5	03/12/08 0:00	calc
Sum of Cations		3.7			meq/L	0.1	0.5	03/12/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	8.6			mg/L	0.5	3	03/11/08 1:39	aml/ccp
Fluoride	M300.0 - Ion Chromatography	0.3	В	*	mg/L	0.1	0.5	03/11/08 1:39	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2		U		mg/L	0.02	0.1	03/12/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	В		mg/L	0.02	0.1	03/05/08 19:45	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	В	*	mg/L	0.01	0.05	03/05/08 19:45	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	190			mg/L	10	20	03/07/08 9:22	cas
Sulfate	300.0 - Ion Chromatography	12.3			mg/L	0.5	3	03/11/08 1:39	aml/ccp
TDS (calculated)	Calculation	196			mg/L	10	50	03/12/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	0.97						03/12/08 0:00	calc

Arizona license number: AZ0102

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

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

ACZ Project ID: L67990

Hydro Geo Chem, Inc.

Project ID: 872002.2

Alkalinity as CaC	О3		SM2320B	3 - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241225													
WG241225PBW2	PBW	03/06/08 19:30				U	mg/L		-20	20			
WG241225LCSW5	LCSW	03/06/08 19:43	WC080131-1	820		840.2	mg/L	102.5	90	110			
L67991-03DUP	DUP	03/06/08 21:12			8	7.6	mg/L				5.1	20	R
WG241225PBW3	PBW	03/06/08 22:18				U	mg/L		-20	20			
WG241225LCSW8	LCSW	03/06/08 22:31	WC080131-1	820		827	mg/L	100.9	90	110			
WG241225LCSW11	LCSW	03/07/08 2:33	WC080131-1	820		777.3	mg/L	94.8	90	110			
Calcium, dissolve	ed		M200.7 IC	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241214													
WG241214ICV	ICV	03/06/08 16:38	11080115-3	100		98.6	mg/L	98.6	95	105			
WG241214ICB	ICB	03/06/08 16:41				U	mg/L		-0.6	0.6			
WG241214LFB	LFB	03/06/08 16:57	11080214-5	67.97008		70.38	mg/L	103.5	85	115			
L67978-04AS	AS	03/06/08 17:57	11080214-5	67.97008	4.8	76.89	mg/L	106.1	85	115			
L67978-04ASD	ASD	03/06/08 18:01	11080214-5	67.97008	4.8	76.73	mg/L	105.8	85	115	0.21	20	
Chloride			M300.0 -	Ion Chrom	atography	1							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	19.98		20.34	mg/L	101.8	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		31.43	mg/L	104.8	90	110			
L67954-01AS	AS	03/10/08 22:38	WI080306-2	600	480	1073	mg/L	98.8	90	110			
L67954-01DUP	DUP	03/10/08 22:56			480	481	mg/L				0.2	20	
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	19.98		20.24	mg/L	101.3	90	110			
WG241326ICB1	ICB	03/11/08 16:39				U	mg/L		-1.5	1.5			
Fluoride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	4		4.02	mg/L	100.5	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-0.3	0.3			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	1.5		1.57	mg/L	104.7	90	110			
L67954-01AS	AS	03/10/08 22:38	WI080306-2	30	U	31.7	mg/L	105.7	90	110			
L67954-01DUP	DUP	03/10/08 22:56			U	U	mg/L				0	20	R
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	4		3.92	mg/L	98	90	110			
WG241326ICB1	ICB	03/11/08 16:39				U	mg/L		-0.3	0.3			

REPIN.01.06.05.01 L67990: Page 6 of 13

Project ID: 872002.2

ACZ Project ID: L67990

Magnesium, dis	solved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241214													
WG241214ICV	ICV	03/06/08 16:38	II080115-3	100		100.25	mg/L	100.3	95	105			
WG241214ICB	ICB	03/06/08 16:41				U	mg/L		-0.6	0.6			
WG241214LFB	LFB	03/06/08 16:57	11080214-5	54.96908		58.67	mg/L	106.7	85	115			
L67978-04AS	AS	03/06/08 17:57	11080214-5	54.96908	2	60.41	mg/L	106.3	85	115			
L67978-04ASD	ASD	03/06/08 18:01	11080214-5	54.96908	2	60.86	mg/L	107.1	85	115	0.74	20	
Nitrate/Nitrite as	N, diss	olved	M353.2 -	Automated	Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241168													
WG241168ICV	ICV	03/05/08 19:14	WI071212-1	2.416		2.32	mg/L	96	90	110			
WG241168ICB	ICB	03/05/08 19:16				U	mg/L		-0.06	0.06			
WG241168LFB	LFB	03/05/08 19:19	WI070911-4	2		2.015	mg/L	100.8	90	110			
L67990-01AS	AS	03/05/08 19:41	WI070911-4	2	.92	2.905	mg/L	99.3	90	110			
L67990-02DUP	DUP	03/05/08 19:43			.77	.771	mg/L				0.1	20	
Nitrite as N, diss	olved		M353.2 -	Automated	Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241168													
WG241168ICV	ICV	03/05/08 19:14	WI071212-1	.609		.576	mg/L	94.6	90	110			
WG241168ICB	ICB	03/05/08 19:16				.011	mg/L		-0.03	0.03			
WG241168LFB	LFB	03/05/08 19:19	WI070911-4	1		.997	mg/L	99.7	90	110			
L67990-01AS	AS	03/05/08 19:41	WI070911-4	1	U	1.018	mg/L	101.8	90	110			
L67990-02DUP	DUP	03/05/08 19:43			.02	.021	mg/L				4.9	20	ı
Potassium, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241214													
WG241214ICV	ICV	03/06/08 16:38	11080115-3	20		20.18	mg/L	100.9	95	105			
WG241214ICB	ICB	03/06/08 16:41				U	mg/L		-0.9	0.9			
WG241214LFB	LFB	03/06/08 16:57	11080214-5	99.76186		107.63	mg/L	107.9	85	115			
L67978-04AS	AS	03/06/08 17:57	11080214-5	99.76186	.6	107.06	mg/L	106.7	85	115			
L67978-04ASD	ASD	03/06/08 18:01	11080214-5	99.76186	.6	108.19	mg/L	107.8	85	115	1.05	20	
Residue, Filteral	ole (TDS) @180C	160.1 / S	M2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241240													
WG241240PBW	PBW	03/07/08 9:00				U	mg/L		-20	20			
WG241240LCSW	LCSW	03/07/08 9:01	PCN28837	260		268	mg/L	103.1	80	120			
L68017-04DUP	DUP	03/07/08 9:29			5190	5150	-				0.8	20	

REPIN.01.06.05.01 L67990: Page 7 of 13

Inorganic QC Summary

Hydro Geo Chem, Inc.

Project ID:

872002.2

ACZ Project ID: L67990

Sodium, dissolv	ved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241214													
WG241214ICV	ICV	03/06/08 16:38	II080115-3	100		100.13	mg/L	100.1	95	105			
WG241214ICB	ICB	03/06/08 16:41				U	mg/L		-0.9	0.9			
WG241214LFB	LFB	03/06/08 16:57	11080214-5	98.21624		106.05	mg/L	108	85	115			
L67978-04AS	AS	03/06/08 17:57	11080214-5	98.21624	3.4	106.81	mg/L	105.3	85	115			
L67978-04ASD	ASD	03/06/08 18:01	11080214-5	98.21624	3.4	108.06	mg/L	106.6	85	115	1.16	20	
Sulfate			300.0 - Io	on Chromat	ography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241326													
WG241326ICV	ICV	03/10/08 21:26	WI080220-1	50.1		51.43	mg/L	102.7	90	110			
WG241326ICB	ICB	03/10/08 21:44				U	mg/L		-1.5	1.5			
WG241326LFB	LFB	03/10/08 22:02	WI080306-2	30		32.41	mg/L	108	90	110			
L67954-01AS	AS	03/10/08 22:38	WI080306-2	600	270	847	mg/L	96.2	90	110			
L67954-01DUP	DUP	03/10/08 22:56			270	275	mg/L				1.8	20	
WG241326ICV1	ICV	03/11/08 16:21	WI080220-1	50.1		50.87	mg/L	101.5	90	110			
WG241326ICB1	ICB	03/11/08 16:39				.91	mg/L		-1.5	1.5			

REPIN.01.06.05.01 L67990: Page 8 of 13

Inorganic Extended Qualifier Report

Hydro Geo Chem, Inc.

ACZ Project ID: L67990

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67990-01	WG241326	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241168	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241225	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67990-02	WG241326	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241168	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241225	Total Alkalinity	SM2320B - Titration	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67990-03	WG241326	Fluoride	M300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
			M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241168	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241225	Total Alkalinity	SM2320B - Titration	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

Hydro Geo Chem, Inc. ACZ Project ID: L67990

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

ACZ Project ID: L67990

872002.2 Date Received: 3/5/2008

Received By:

Date Printed: 3/5/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
Х		
Х		
Х		
Χ		
Х		
Χ		
		Х
		Х
		Х
		Х

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)
NA5594	3.2	16

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: L67990

3/5/2008

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
L67990-01	BF-1		Υ									
L67990-02	GL-3		Y									
L67990-03	TM-2A		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

ACZ Labor	ratories, Inc.						CHAIN of CUSTODY
2773 Downhill Drive Steamboat Spr	ings, CO 80487 (800) 334-	5493					
Report to:							
Name: Dan Simp	500		Addres	ss:	51	W	lest Wetmore Rd
	Chem Inc.	1		-	Tuc		A7 85705
E-mail: dans@haci		7	Teleph	none:	520	7	93-1500 X/B3
	IK-COM						
Copy of Report to:					7.1		
Name: Jim Norris		_	E-mail	:	<u>Jim</u>	ne i	hacine com
Company: 14GC I	nc.		Teleph	none:	<u>52</u>	<u>0) Z</u>	273-1500 X112
Invoice to:							
Name: Jim Noscis			Addres	ss: ,	5/	W.	Wetmore Rd
Company: HGC Inc		1			Time	Sun	AZ 85705
		7	Teleph	one.	520		93-1500 X1/2
E-mail: Jimn(w ha		_ t HT rema)	YES
analysis before expiration, shall A					-		NO
If "NO" then ACZ will contact clier	nt for further instruction. I	f neither '	"YES" n	or "NO			
is indicated, ACZ will proceed wit	h the requested analyses,	even if H					
PROJECT INFORMATION			ANA	ALYSES	REQU	ESTED	(attach list or use quote number)
Quote # FMCQB	-6W		່ຶຶ່		1		
Project/PO#: 8720	O2,2		of Containers		22		
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Sampler's Name: MarK	Arneson		ខ្ញុ	6) ×≥		
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SAMPLE IDENTIFICATION	DATE:TIME	Matrix		١٩	23	4	
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G1-2	3/4/08: 1155	6W	1	×	X	X	
7 M- 2 A	3/4/08:1425	GW	3	X	X	K	
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Matrix SW (Surface Water) · GW	(Ground Water) · WW (Waste W	ater) · DW	(Drinking	Water) ·	SL (Slud	ge) · SO	(Soil) · OL (Oil) · Other (Specify)
REMARKS							
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	efer to ACZ's terms & cor		ocated				
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///////////	3/4/06!	1630	<u> </u>	Lu	1/		3-5-08 11.05

March 21, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L68145

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 13, 2008. This project has been assigned to ACZ's project number, L68145. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68145. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 21, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havermehl





Inorganic Analytical Results

Hydro Geo Chem, Inc.

ACZ Sample ID: L68145-01

Project ID: 872001.0

Date Sampled: 03/11/08 13:30

Sample ID: EPPELE 641

Date Received: 03/13/08
Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	21.7		ma/L	0.5	3	03/19/08 19:31	aml

Arizona license number: AZ0102

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

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L68145

Project ID: 872001.0

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241583													
WG241583ICV1	ICV	03/19/08 17:24	WI080220-1	50.1		50.2	mg/L	100.2	90	110			
WG241583ICB1	ICB	03/19/08 17:43				U	mg/L		-1.5	1.5			
WG241583LFB2	LFB	03/19/08 18:01	WI080306-2	30		29.95	mg/L	99.8	90	110			
L68019-02AS	AS	03/19/08 18:55	WI080306-2	300	482	771.9	mg/L	96.6	90	110			
L68019-02DUP	DUP	03/19/08 19:13			482	453.5	mg/L				6.1	20	

REPIN.01.06.05.01 L68145: Page 4 of 9

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

WORKNUM PARAMETER

ACZ ID

ACZ Project ID: L68145

METHOD

QUAL DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68145

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L68145 3/13/2008

Received By:

Date Printed: 3/13/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
Х		
Х		
Х		
Χ		
Х		
Χ		
		Х
		Х
		Х
		Х

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)
NA5651	Temp (℃) Rad (μR/hr) 1.2 19	

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received:

L68145 3/13/2008

Received By:

Samr	ole i	Coni	tainer	Preser	vation

SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L68145-01	EPPELE									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be $< 250 \mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

ACZ 2773 Downhill Driv			es, Inc. 0 80487 (8	00) 334) 1-5493	314	15)	СН	AIN	of C	UST	ODY
Report to: Name: Our Company: ITy E-mail: Jan	dro Geo	o Chem	Inc.		Addr Teler	ess: ohone	51 Tuc 520	SOM	1.	<u>etmo</u> 2 °	re Ro 357 00x	05	
Copy of Report t	Notice				F-ma	il: ,	imn(2 hac	,	C 10 10 1			
Company: 14	GC In		-		1		520	3)2	73 -	150	Öxl	12	
invoice to:								/	, ,				
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PROJECT INFORM				,							use quo	ote nun	nber)
Quote #: 50° Project/PO #: Reporting state f Sampler's Name: Are any samples SAMPLE IDENTI	M, H,	<i>กe ร</i> ู่อก ble materia	1/2	Matrix	# of Containers	SO4/							
EPPELE			:1330	60	1	X					<u> </u>		
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			ater) WW (W	aste Wat	er) · D\	N (Drink	ing Wate	er) · SL	. (Sludge	e) · SO	(Soil) • (DL (Oil)	· Other
REMARKS/ SAMPL	LE DISCLOS	JRES											
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/ PI	ease refer t	o ACZ's te	erms & cond	itions lo	cate	on th	e reve	rse sid	de of t	his CC	OC		
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///////////////////////////////////////			3-/2-08:	1350		137					3-13	00/	10:51
111										-			

April 08, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L68297

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 21, 2008. This project has been assigned to ACZ's project number, L68297. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68297. 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 08, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havernehl





872001.0

ANDERSON

Inorganic Analytical Results

Hydro Geo Chem, Inc.

ACZ Sample ID: **L68297-01**

Date Sampled: 03/20/08 11:35

Date Received: 03/21/08

Sample Matrix: Ground Water

Wet Chemistry

Project ID:

Sample ID:

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	431		ma/L	8	40	04/05/08 18:34	aml

Arizona license number: AZ0102

REPIN.02.06.05.01

L68297: Page 2 of 9

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

Report H		

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

000		
QC Sam	IMIA	IVnes
ac cuii	1910	Lypus

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

Inorganic QC Summary

Hydro Geo Chem, Inc. ACZ Project ID: L68297

Project ID: 872001.0

Sulfate			300.0 - Ior	Chroma	tography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG242493													
WG242493ICV	ICV	04/04/08 11:39	WI080318-6	50.1		50.15	mg/L	100.1	90	110			
WG242493ICB	ICB	04/04/08 11:57				U	mg/L		-1.5	1.5			
WG242493LFB	LFB	04/04/08 12:15	WI080306-2	30		29.44	mg/L	98.1	90	110			
L68295-01AS	AS	04/05/08 16:10	WI080306-2	150	123	275	mg/L	101.3	90	110			
L68295-01DUP	DUP	04/05/08 16:28			123	119.4	mg/L				3	20	

REPIN.01.06.05.01 L68297: Page 4 of 9

Inorganic Extended
Qualifier Report

Hydro Geo Chem, Inc.

WORKNUM PARAMETER

ACZ ID

ACZ Project ID: L68297

METHOD

QUAL DESCRIPTION

No extended qualifiers associated with this analysis

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68297

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L68297 3/21/2008

Received By:

Date Printed: 3/21/2008

Receipt Verification

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

NO	NA
	Х
	Х
	Х
	Х
	Х
	X
	Χ
	NO

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)
NA5711	0	21

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received:

Received By:

L68297

3/21/2008

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
L68297-01	ANDERSON									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be $< 250 \mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		
Sallible IDS neviewed by.		

Laboratories, Inc. CHAIN of CUSTODY 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493 Report to: an Simpson Name: Address: Hydro Geo Chem Company: Jans@hacine com E-mail: Telephone: Copy of Report to: Name: E-mail: Jimn@hacinc.com Company: Telephone: Invoice to: Name: W. Wetmore R Address: Company: E-mail: hacine com If sample(s) received past holding time (HT), or if insufficient HT remains to complete YES analysis before expiration, shall ACZ proceed with requested short HT analyses? NO If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified. PROJECT INFORMATION ANALYSES REQUESTED (attach list or use quote number) Quote #: of Containers Project/PO #: Reporting state for compliance testing: A Sampler's Name: 📝 Are any samples NRC licensable material? /// SAMPLE IDENTIFICATION DATE:TIME Matrix GW SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other REMARKS/ SAMPLE DISCLOSURES PAGE of Please refer to ACZ's terms & conditions located on the reverse side of this COC. RELINOU/SHED BY: DATE:TIME RECEIVED BY: DATE:TIME 20/08:1615

FRMAD050.03.05.02

White - Return with sample.

Yellow - Retain for your records.

L68297: Page 9 of 9

April 08, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L68296

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on March 21, 2008. This project has been assigned to ACZ's project number, L68296. Please reference this number in all future inquiries.

Bill to:

Accounts Payable

Hydro Geo Chem, Inc. P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L68296. 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 08, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havernehl





Project ID: 872002.2

Sample ID: ROGERS 803

ACZ Sample ID: L68296-01

Date Sampled: 03/20/08 07:45

Date Received: 03/21/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	94.0		*	mg/L	0.2	1	03/24/08 22:59	aeh/erf
Magnesium, dissolved	M200.7 ICP	11.7			mg/L	0.2	1	03/21/08 20:32	aeh/wfg
Potassium, dissolved	M200.7 ICP	3.0			mg/L	0.3	2	03/21/08 20:32	aeh/wfg
Sodium, dissolved	M200.7 ICP	26.6			mg/L	0.3	2	03/21/08 20:32	aeh/wfg
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		148			mg/L	2	20	03/24/08 0:00	jlf
Carbonate as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Total Alkalinity		148			mg/L	2	20	03/24/08 0:00	jlf
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.5			%			04/08/08 14:30	calc
Sum of Anions		6.3			meq/L	0.1	0.5	04/08/08 14:30	calc
Sum of Cations		6.9			meq/L	0.1	0.5	04/08/08 14:30	calc
Chloride	M300.0 - Ion Chromatography	13.2			mg/L	0.5	3	03/26/08 19:04	aml
Fluoride	M300.0 - Ion Chromatography	0.2	В	*	mg/L	0.1	0.5	04/01/08 21:49	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	4.69			mg/L	0.04	0.2	04/08/08 14:30	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	4.71			mg/L	0.04	0.2	03/21/08 21:49	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.02	В	*	mg/L	0.01	0.05	03/21/08 21:42	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	410	Н	*	mg/L	10	20	04/01/08 15:22	jlf
Sulfate	300.0 - Ion Chromatography	125			mg/L	1	5	04/05/08 17:58	aml
TDS (calculated)	Calculation	383			mg/L	10	50	04/08/08 14:30	calc
TDS (ratio - measured/calculated)	Calculation	1.07						04/08/08 14:30	calc

Arizona license number: AZ0102

Project ID: 872002.2

Sample ID: LAWSON TVI 236

ACZ Sample ID: L68296-02

Date Sampled: 03/20/08 08:30

Date Received: 03/21/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	70.5			mg/L	0.2	1	03/27/08 2:25	aeh
Magnesium, dissolved	M200.7 ICP	9.3			mg/L	0.2	1	03/27/08 2:25	aeh
Potassium, dissolved	M200.7 ICP	1.9	В		mg/L	0.3	2	03/27/08 2:25	aeh
Sodium, dissolved	M200.7 ICP	25.6			mg/L	0.3	2	03/27/08 2:25	aeh
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		178			mg/L	2	20	03/24/08 0:00	jlf
Carbonate as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Total Alkalinity		178			mg/L	2	20	03/24/08 0:00	jlf
Cation-Anion Balance	Calculation								
Cation-Anion Balance		1.9			%			04/08/08 14:30	calc
Sum of Anions		5.2			meq/L	0.1	0.5	04/08/08 14:30	calc
Sum of Cations		5.4			meq/L	0.1	0.5	04/08/08 14:30	calc
Chloride	M300.0 - Ion Chromatography	26.0			mg/L	0.5	3	03/26/08 19:22	aml
Fluoride	M300.0 - Ion Chromatography	0.1	В	*	mg/L	0.1	0.5	04/01/08 22:05	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.90			mg/L	0.02	0.1	04/08/08 14:30	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.93			mg/L	0.02	0.1	03/21/08 21:43	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.03	В	*	mg/L	0.01	0.05	03/21/08 21:43	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	310	Н	*	mg/L	10	20	04/01/08 15:23	jlf
Sulfate	300.0 - Ion Chromatography	31.3			mg/L	0.5	3	04/04/08 14:58	aml
TDS (calculated)	Calculation	289			mg/L	10	50	04/08/08 14:30	calc
TDS (ratio - measured/calculated)	Calculation	1.07						04/08/08 14:30	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L68296: Page 3 of 13

ACZ Sample ID: L68296-03 Project ID: 872002.2 Date Sampled: 03/20/08 13:15

Sample ID: COOPER C Date Received: 03/21/08 Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	393			mg/L	0.2	1	03/27/08 2:43	aeh
Magnesium, dissolved	M200.7 ICP	59.8			mg/L	0.2	1	03/27/08 2:43	aeh
Potassium, dissolved	M200.7 ICP	6.0			mg/L	0.3	2	03/27/08 2:43	aeh
Sodium, dissolved	M200.7 ICP	45.0			mg/L	0.3	2	03/27/08 2:43	aeh
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		229			mg/L	2	20	03/24/08 0:00	jlf
Carbonate as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf

Bicarbonate as CaCO3		229			mg/L	2	20	03/24/08 0:00	jlf
Carbonate as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	03/24/08 0:00	jlf
Total Alkalinity		229			mg/L	2	20	03/24/08 0:00	jlf
Cation-Anion Balance	Calculation								
Cation-Anion Balance		-0.6			%			04/08/08 14:30	calc
Sum of Anions		27.0			meq/L	0.1	0.5	04/08/08 14:30	calc
Sum of Cations		26.7			meq/L	0.1	0.5	04/08/08 14:30	calc
Chloride	M300.0 - Ion Chromatography	49.0			mg/L	0.5	3	03/26/08 20:16	aml
Fluoride	M300.0 - Ion Chromatography		U	*	mg/L	0.1	0.5	04/01/08 22:59	aml
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	3.09			mg/L	0.02	0.1	04/08/08 14:30	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	3.10			mg/L	0.02	0.1	03/21/08 21:48	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	0.01	В	*	mg/L	0.01	0.05	03/21/08 21:48	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	1810	Н	*	mg/L	10	20	04/01/08 15:24	jlf
Sulfate	300.0 - Ion Chromatography	990			mg/L	10	50	04/05/08 18:16	aml
TDS (calculated)	Calculation	1690			mg/L	10	50	04/08/08 14:30	calc
TDS (ratio - measured/calculated)	Calculation	1.07						04/08/08 14:30	calc

Arizona license number: AZ0102

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

Report Header Explanation						

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

00	C	7 7 7	A STATE OF THE PARTY OF THE PAR
QU.	Sami	ore i	ypes

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L68296: Page 5 of 13

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68296

Project ID: 872002.2

Alkalinity as CaC	О3		SM2320E	3 - Titration									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241912													
WG241912PBW1	PBW	03/24/08 11:23				2.3	mg/L		-20	20			
WG241912LCSW2	LCSW	03/24/08 11:36	WC080324-1	820		779.5	mg/L	95.1	90	110			
WG241912PBW2	PBW	03/24/08 13:55				U	mg/L		-20	20			
WG241912LCSW4	LCSW	03/24/08 14:07	WC080324-1	820		783.5	mg/L	95.5	90	110			
WG241912PBW3	PBW	03/24/08 18:01				U	mg/L		-20	20			
WG241912LCSW6	LCSW	03/24/08 18:13	WC080324-1	820		784.1	mg/L	95.6	90	110			
WG241912PBW4	PBW	03/24/08 21:12				U	mg/L		-20	20			
WG241912LCSW8	LCSW	03/24/08 21:25	WC080324-1	820		789.5	mg/L	96.3	90	110			
L68302-01DUP	DUP	03/24/08 23:50			586	588	mg/L				0.3	20	
WG241912LCSW10	LCSW	03/25/08 0:01	WC080324-1	820		790.7	mg/L	96.4	90	110			
Calcium, dissolve	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241932													
WG241932ICV	ICV	03/24/08 20:57	11080115-3	100		96.59	mg/L	96.6	95	105			
WG241932ICB	ICB	03/24/08 21:00				U	mg/L		-0.6	0.6			
WG241932LFB	LFB	03/24/08 21:16	11080319-3	67.97008		70.63	mg/L	103.9	85	115			
L68273-06AS	AS	03/24/08 22:17	11080319-3	67.97008	508	578.49	mg/L	103.7	85	115			
L68273-06ASD	ASD	03/24/08 22:21	11080319-3	67.97008	508	559.01	mg/L	75	85	115	3.43	20	МЗ
WG242077													
WG242077ICV	ICV	03/27/08 1:54	11080115-3	100		95.53	mg/L	95.5	95	105			
WG242077ICB	ICB	03/27/08 1:58				U	mg/L		-0.6	0.6			
WG242077LFB	LFB	03/27/08 2:12	11080319-3	67.97008		69.6	mg/L	102.4	85	115			
L68296-02AS	AS	03/27/08 2:29	11080319-3	67.97008	70.5	134.18	mg/L	93.7	85	115			
L68296-02ASD	ASD	03/27/08 2:32	11080319-3	67.97008	70.5	137.04	mg/L	97.9	85	115	2.11	20	
Chloride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG241917													
WG241917ICV	ICV	03/26/08 16:03	WI080318-6	19.98		20.06	mg/L	100.4	90	110			
WG241917ICB	ICB	03/26/08 16:21				U	mg/L		-1.5	1.5			
WG241917LFB	LFB	03/26/08 16:39	WI080306-2	30		31.21	mg/L	104	90	110			
L68295-01AS	AS	03/26/08 17:15	WI080306-2	30	8.5	37.34	mg/L	96.1	90	110			
L68295-01DUP	DUP	03/26/08 17:33			8.5	8.51	mg/L				0.1	20	
L68307-02AS	AS	03/26/08 21:29	WI080306-2	30	9.9	39.59	mg/L	99	90	110			
L68307-02DUP	DUP	03/26/08 21:47			9.9	9.91	mg/L				0.1	20	

REPIN.01.06.05.01 L68296: Page 6 of 13 (800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L68296

Project ID: 872002.2

Fluoride			M300.0 -	Ion Chrom	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG242303													
WG242303ICV	ICV	04/01/08 15:11	WI080318-6	4		3.61	mg/L	90.3	90	110			
WG242303ICB	ICB	04/01/08 15:29				U	mg/L		-0.3	0.3			
WG242303LFB	LFB	04/01/08 15:47	WI080306-2	1.5		1.48	mg/L	98.7	90	110			
L68295-03AS	AS	04/01/08 20:37	WI080306-2	1.5	.7	2.13	mg/L	95.3	90	110			
L68295-03DUP	DUP	04/01/08 20:55			.7	.63	mg/L				10.5	20	RA
Magnesium, di	ssolved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241868													
WG241868ICV	ICV	03/21/08 18:16	II080115-3	100		96.01	mg/L	96	95	105			
WG241868ICB	ICB	03/21/08 18:20				U	mg/L		-0.6	0.6			
WG241868LFB	LFB	03/21/08 18:37	11080319-3	49.96908		50.41	mg/L	100.9	85	115			
L68273-06AS	AS	03/21/08 19:43	11080319-3	49.96908	23.3	73.75	mg/L	101	85	115			
L68273-06ASD	ASD	03/21/08 19:47	11080319-3	49.96908	23.3	75	mg/L	103.5	85	115	1.68	20	
WG242077													
WG242077ICV	ICV	03/27/08 1:54	II080115-3	100		98.91	mg/L	98.9	95	105			
WG242077ICB	ICB	03/27/08 1:58				U	mg/L		-0.6	0.6			
WG242077LFB	LFB	03/27/08 2:12	11080319-3	49.96908		52.19	mg/L	104.4	85	115			
L68296-02AS	AS	03/27/08 2:29	11080319-3	49.96908	9.3	61.43	mg/L	104.3	85	115			
L68296-02ASD	ASD	03/27/08 2:32	11080319-3	49.96908	9.3	61.51	mg/L	104.5	85	115	0.13	20	
Nitrate/Nitrite a	ıs N, diss	olved	M353.2 -	Automated	I Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241885													
WG241885ICV	ICV	03/21/08 21:29	WI080312-1	2.416		2.505	mg/L	103.7	90	110			
WG241885ICB	ICB	03/21/08 21:31				U	mg/L		-0.06	0.06			
WG241885LFB	LFB	03/21/08 21:36	WI080312-1	2		2.102	mg/L	105.1	90	110			
L68283-01AS	AS	03/21/08 21:38	WI080312-1	2	.53	2.588	mg/L	102.9	90	110			
L68290-01DUP	DUP	03/21/08 21:41			.95	.952	mg/L				0.2	20	
Nitrite as N, dis	ssolved		M353.2 -	Automated	I Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241885													
WG241885ICV	ICV	03/21/08 21:29	WI080312-1	.609		.65	mg/L	106.7	90	110			
WG241885ICB	ICB	03/21/08 21:31				U	mg/L		-0.03	0.03			
WG241885LFB	LFB	03/21/08 21:36	WI080312-1	1		1.002	mg/L	100.2	90	110			
L68283-01AS	AS	03/21/08 21:38	WI080312-1	1	U	.971	mg/L	97.1	90	110			
				•	-		9, =						

REPIN.01.06.05.01 L68296: Page 7 of 13

3

20

ACZ Project ID: L68296

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

Hydro Geo Chem, Inc.

L68295-01DUP

DUP

04/05/08 16:28

Project ID: 872002.2 M200.7 ICP Potassium, dissolved ACZ ID Туре Analyzed PCN/SCN QC Found Units RPD Limit WG241868 WG241868ICV ICV 03/21/08 18:16 II080115-3 20 19 52 mg/L 97.6 95 105 WG241868ICB ICB 03/21/08 18:20 U mg/L -0.9 0.9 WG241868LFB LFB 11080319-3 102.15 03/21/08 18:37 99.76186 mg/L 102.4 85 115 03/21/08 19:43 46.5 L68273-06AS AS 11080319-3 99.76186 152 51 mg/L 106.3 85 115 L68273-06ASD ASD 03/21/08 19:47 11080319-3 99.76186 46.5 155.27 109 85 115 1.79 20 mg/L WG242077 WG242077ICV ICV 03/27/08 1:54 II080115-3 20 20.06 mg/L 100.3 95 105 WG242077ICB ICB 03/27/08 1:58 U mg/L -0.9 0.9 WG242077LFB LFB 03/27/08 2:12 11080319-3 99.76186 104.04 mg/L 104.3 85 115 L68296-02AS AS 03/27/08 2:29 11080319-3 99.76186 1.9 108.14 mg/L 106.5 85 115 L68296-02ASD ASD 03/27/08 2:32 11080319-3 99 76186 19 107.36 105.7 85 0.72 20 mg/L 115 Residue, Filterable (TDS) @180C 160.1 / SM2540C ACZ ID Туре Analyzed PCN/SCN Found Units Uppe WG242307 WG242307PBW PBW 04/01/08 15:00 U -20 20 mg/L WG242307LCSW 260 268 103.1 80 120 **LCSW** 04/01/08 15:01 PCN29265 mg/L L68308-02DUP DUP 04/01/08 15:29 1190 1168 1.9 20 mg/L Sodium, dissolved M200.7 ICP ACZ ID PCN/SCN QC Qual Analyzed Sample Found Units Rec Lower Upper RPD Limit Type WG241868 WG241868ICV ICV 03/21/08 18:16 II080115-3 100 96.81 mg/L 96.8 95 105 WG241868ICB ICB 03/21/08 18:20 U mg/L -0.9 0.9 LFB WG241868I FB 03/21/08 18:37 11080319-3 98 21624 100.21 102 85 115 mg/L L68273-06AS AS 03/21/08 19:43 11080319-3 98.21624 27.5 130.11 mg/L 104.5 85 115 L68273-06ASD ASD 03/21/08 19:47 11080319-3 98.21624 27.5 132.43 106.8 85 115 1.77 20 mg/L WG242077 WG242077ICV ICV 03/27/08 1:54 II080115-3 100 99.91 99.9 95 105 mg/L WG242077ICB ICB 03/27/08 1:58 U mg/L -0.9 0.9 11080319-3 103.02 WG242077LFB I FB 03/27/08 2:12 98.21624 mg/L 104.9 85 115 L68296-02AS AS 03/27/08 2:29 11080319-3 98 21624 25.6 128 25 104 5 85 mg/L 115 L68296-02ASD ASD 03/27/08 2:32 11080319-3 98.21624 25.6 127.73 104 85 115 0.41 20 mg/L Sulfate 300.0 - Ion Chromatography ACZ ID Found Units Туре Analyzed PCN/SCN Sample Rec Lower Upper RPD Limit WG242493 WG242493ICV ICV 50.15 100.1 04/04/08 11:39 WI080318-6 50.1 mg/L 90 110 WG242493ICB ICB 04/04/08 11:57 U -1.5 1.5 mg/L WG242493LFB LFB 29.44 90 04/04/08 12:15 WI080306-2 30 mg/L 98.1 110 L68295-01AS AS 04/05/08 16:10 WI080306-2 150 123 275 mg/L 101.3 90 110

REPIN.01.06.05.01 L68296: Page 8 of 13

123

119.4

mg/L

ACZ Project ID: L68296

Hydro Geo Chem, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L68296-01	WG241932	Calcium, dissolved	M200.7 ICP	М3	The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The recovery of the associated control sample (LCS or LFB) was acceptable.
	WG242303	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241885	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG242307	Residue, Filterable (TDS) @180C	160.1 / SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L68296-02	WG242303	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241885	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG242307	Residue, Filterable (TDS) @180C	160.1 / SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.
L68296-03	WG242303	Fluoride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241885	Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG242307	Residue, Filterable (TDS) @180C	160.1 / SM2540C	HC	Initial analysis within holding time. Reanalysis was past holding time, which was required due to a QC failure during the initial analysis.

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L68296

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: L68296 3/21/2008

Received By:

Date Printed: 3/21/2008

Receipt Verification

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

NO	NA
	Х
	Χ
	Х
	Х
	Χ
	Х
	Χ
	NO

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)
NA5711	0	21

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received: L68296

3/21/2008

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
L68296-01	ROGERS 803		Υ									
L68296-02	LAWSON TVI 236		Υ									
L68296-03	COOPER C		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μR/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	
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68296

ACZ Laborato	ries, Inc.			CHAIN	of CUST	ODY
2773 Downhill Drive Steamboat Spring	s, CO 80487 (800) 33	34-54 9 3				
Report to:	, , , , , , , , , , , , , , , , , , ,	_				
Name: Van Simpson		Address:	SI Wes	Liktmo	re Rd.	
Company: Hydro Geo Chen.	Inc.		Tucson	AZ 9	35205	
E-mail: dans@hacinc.com	<u></u>	Telephone	:(520) ష	193-150	0 x/33	
Copy of Report to:						
Name: Dim Norris		E-mail:	Jimma h	9017C-CO	m	
Company: HGC Inc.		Telephone		93-150	0x1/2	·
Invoice to:			\			
Name: Jim Nossis		Address:	57 4	V. We	+ more la	2
Company: 1+G(Inc.			Tucso		8570	5
E-mail: Jimn@ hacinc	.com	Telephone	~ 1	293-1	500 x11	2
If sample(s) received past holding time		T remains to o	complete		YES 💢	
analysis before expiration, shall ACZ pro	•	_			NO	
If "NO" then ACZ will contact client for is indicated, ACZ will proceed with the r				ill be qualified		
PROJECT INFORMATION	equested analyses, even			(attach list or	use auote nun	nber)
Quote #: FMCQB-G4		1	\			
Project/PO #: 872002, 2		ers ✓	21, m			٠
Reporting state for compliance test	ing: A7	Containers	6 0 p			
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Are any samples NRC licensable ma	7/	₽ ×				
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ROGERS 803 3/20		3 ×	XX			
LAWSON TVIZ36 3/20/		. 1				
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Matrix SW (Surface Water) - GW (Ground	nd Water) · WW (Waste Wa	ater) · DW (Drin	nking Water) · S	L (Sludge) · SO ((Soil) - OL (Oil)	Other
REMARKS/ SAMPLE DISCLOSURES						
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June 19, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872000 T2.2 ACZ Project ID: L69570

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on May 30, 2008. This project has been assigned to ACZ's project number, L69570. Please reference this number in all future inquiries.

Bill to:

Accounts Payable

Hydro Geo Chem, Inc. P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L69570. 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 July 19, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Habermehl





Hydro Geo Chem, Inc.

Project ID: 872000 T2.2 Sample ID: ENGLUND

 872000 T2.2
 Date Sampled: 05/29/08 14:10

 ENGLUND
 Date Received: 05/30/08

Sample Matrix: Ground Water

ACZ Sample ID: L69570-01

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	520	*	ma/L	10	50	06/15/08 20:34	am

Hydro Geo Chem, Inc.

Project ID: 872000 T2.2 Sample ID: DUP052908

Date Sampled: 05/29/08 00:00
Date Received: 05/30/08

ACZ Sample ID: L69570-02

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	550	*	mg/L	10	50	06/15/08 20:52	aml

Hydro Geo Chem, Inc.

Project ID: 872000 T2.2 Sample ID: FB052908 ACZ Sample ID: **L69570-03**

Date Sampled: 05/29/08 00:00

Date Received: 05/30/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography		U *	ma/L	0.5	3	06/15/08 21:10	am

Hydro Geo Chem, Inc.

Project ID: 872000 T2.2 Sample ID: EQB052908

EQB052908

ACZ Sample ID: L69570-04

Date Sampled: 05/29/08 00:00

Date Received: 05/30/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography		U *	mg/L	0.5	3	06/15/08 22:04	am

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

D 4			
rkebort	Header	EXD	lanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing 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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

(1) EPA 600	0/4-83-020. Methods for	Chemical Analysis of	f Water and Wastes	March 1983.
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- (2) EPA 600/R-93-100. Methods for the Determination of Inorganic Substances in Environmental Samples, August 1993.
- (3) EPA 600/R-94-111. Methods for the Determination of Metals in Environmental Samples Supplement I, May 1994.
- (5) EPA SW-846. Test Methods for Evaluating Solid Waste, Third Edition with Update III, December 1996.
- (6) Standard Methods for the Examination of Water and Wastewater, 19th edition, 1995.

Comments

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

ACZ Project ID: L69570



(800) 334-5493

Hydro Geo Chem, Inc.

Project ID: 872000 T2.2

Sulfate	te 300.0 - Ion Chromatography												
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG246357													
WG246357 CV	ICV	06/15/08 14:13	WI080521-1	50.1		50.64	mg/L	101.1	90	110			
WG246357 CB	ICB	06/15/08 14:32				U	mg/L		-1.5	1.5			
WG246357LFB	LFB	06/15/08 14:50	WI080521-3	30		32.63	mg/L	108.8	90	110			
L69541-06AS	AS	06/15/08 19:39	WI080521-3	30	21.9	47.39	mg/L	85	90	110			M2
L69541-06DUP	DUP	06/15/08 19:57			21.9	20.25	mg/L				7.8	20	
WG246357 CV1	ICV	06/16/08 16:08	WI080521-1	50.1		50,45	mg/L	100.7	90	110			
WG246357 CB1	ICB	06/16/08 16:26				.91	mg/L		-1.5	1.5			

REPIN.01.06.05.01 Page 7 of 12

Inorganic Extended Qualifier Report

ACZ Project ID: L69570

Hydro Geo Chem, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L69570-01	WG246357	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L69570-02	WG246357	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L69570-03	WG246357	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
L69570-04	WG246357	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.

Hydro Geo Chem, Inc. ACZ Project ID: L69570

No certification qualifiers associated with this analysis



Sample Receipt

L69570

Hydro Geo Chem, Inc.

ACZ Project ID:

872000 T2.2 Date Received: 5/30/2008

Received By:

Date Printed: 5/30/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
Х		
Х		
Х		
Х		
Х		
Х		
		Х
		Х
		Х
		Х

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)
NA6148	5.7	15

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

Notes



Sample Receipt

Hydro Geo Chem, Inc.

872000 T2.2

ACZ Project ID: Date Received: Received By: L69570

5/30/2008

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
L69570-01	ENGLUND									Χ		
L69570-02	DUP052908									Х		
L69570-03	FB052908									Х		
L69570-04	EQB052908									Х		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be $< 250 \ \mu R/hr$

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:	
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	oratories, Inc.		0		H)	CH	AIN	of C	UST	ODY
2773 Downhill Drive Steamb	ooat Springs, CO 80487 (800) 33	4-5493		<u>/ \</u>						
Report to:			_								
Name: Dan Sim	Pson		Addr	ess:	51	W.	We	tmo	re b	Ed.	
	reo Chem Inc.		L	•			_	_		703	5
E-mail: duns@hg	cinc.com		Telep	ohone:	/	_ \	293	_		x13	3
Copy of Report to:						7					
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Invoice to:											
Name: Jim Nori.	<u>s</u>		Addr	ess:	51	W.	We	et mo	110	Rd	
Company: HGC I	Inc.	İ				son,	_		57		
E-mail: Jimpang	ina com		Telep	hone:		_ ,	93-1	500	x //	2	
If sample(s) received past ho		icient HT							YES	LX	
analysis before expiration, sh	all ACZ proceed with reque	sted sho	rt HT a	nalyses	?				NO		
If "NO" then ACZ will contact							ar 4.				
is indicated, ACZ will proceed PROJECT INFORMATION	with the requested analyse	es, even							UCO 814	ote nun	obor)
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FQR057908	5-29-08	GW	1	X							
, <u> </u>		<u> </u>									
Matrix SW (Surface Water)	· GW (Ground Water) · WW (V	Naste Wat	ter) · D'	J	ing Wate	er) - SL	(Sludae) · SO ((Soil)	LLLLI OL (Oil)	Other
REMARKS/ SAMPLE DISCLO			.0.,	., (2,,,,,,	mg mac	51, 02	Courage	, 55	-	OL (OII)	Other
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A Please refe	er to ACZ's terms & con-	ditions l	ocate	d on th	e reve	rse si	de of t	his CO	C.	Ĺ	
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Analytical Report

February 19, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L67560

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 06, 2008. This project has been assigned to ACZ's project number, L67560. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67560. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after March 19, 2008. 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.

Scott Habermehl has reviewed and approved this report.

S. Havernehl





Hydro Geo Chem, Inc.

Project ID: 872001.0

Sample ID: RUIZ

ACZ Sample ID: L67560-01

Date Sampled: 02/05/08 08:50

Date Received: 02/06/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	263	*	ma/L	3	10	02/11/08 19:03	aml

Arizona license number: AZ0102

REPIN.02.06.05.01

L67560: Page 2 of 13

Hydro Geo Chem, Inc.

Project ID: 872001.0

Sample ID: BLOMMER

ACZ Sample ID: L67560-02

Date Sampled: 02/05/08 10:20

Date Received: 02/06/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	206	*	ma/L	3	10	02/11/08 19:21	aml

Arizona license number: AZ0102

REPIN.02.06.05.01

L67560: Page 3 of 13

NOTEMAN

Hydro Geo Chem, Inc.

ACZ Sample ID: **L67560-03**Date Sampled: 02/05/08 12:15

Project ID: 872001.0

Date Received: 02/06/08

Sample Matrix: Ground Water

Wet Chemistry

Sample ID:

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	310	*	ma/L	10	50	02/11/08 19:39	aml

Arizona license number: AZ0102

L67560: Page 4 of 13

Hydro Geo Chem, Inc.

ACZ Sample ID: L67560-04

Date Sampled: 02/05/08 13:50

Date Received: 02/06/08

Sample Matrix: Ground Water

Project ID: 872001.0 Sample ID:

MARTIN

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	1060	*	ma/l	50	300	02/11/08 19:57	aml

Hydro Geo Chem, Inc.

m, Inc. ACZ Sample ID: **L67560-05**

 Project ID:
 872001.0
 Date Sampled:
 02/05/08 15:15

 Sample ID:
 CAMPBELL
 Date Received:
 02/06/08

Sample Matrix: Ground Water

Wet Chemistry

Parameter	EPA Method	Result	Qual XQ	Units	MDL	PQL	Date	Analyst
Sulfate	300.0 - Ion Chromatography	211	*	ma/L	3	10	02/11/08 20:15	aml

Arizona license number: AZ0102

REPIN.02.06.05.01

L67560: Page 6 of 13



Report He	ador Evr	lanations	

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L67560: Page 7 of 13

Inorganic QC Summary

ACZ Project ID: L67560

Hydro Geo Chem, Inc.

Project ID: 872001.0

Sulfate			300.0 - Ion	Chroma	tography								
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240083													
WG240083ICV	ICV	02/07/08 16:57	WI080128-8	50.1		50.44	mg/L	100.7	90	110			
WG240083ICB	ICB	02/07/08 17:15				U	mg/L		-1.5	1.5			
WG240083ICV1	ICV	02/09/08 11:47	WI080128-8	50.1		51.13	mg/L	102.1	90	110			
WG240083ICB1	ICB	02/09/08 12:05				U	mg/L		-1.5	1.5			
WG240236													
WG240236ICV	ICV	02/09/08 14:30	WI080128-8	50.1		51.88	mg/L	103.6	90	110			
WG240236ICB	ICB	02/09/08 14:48				U	mg/L		-1.5	1.5			
L67529-01AS	AS	02/09/08 19:56	WI080128-9	30	4.6	33.74	mg/L	97.1	90	110			
L67529-01DUP	DUP	02/09/08 20:14			4.6	4.59	mg/L				0.2	20	RA
WG240236ICV1	ICV	02/11/08 18:09	WI080128-8	50.1		51.63	mg/L	103.1	90	110			
WG240236ICB1	ICB	02/11/08 18:27				U	mg/L		-1.5	1.5			
WG240236LFB	LFB	02/11/08 18:45	WI080128-9					106.2	90	110			

REPIN.01.06.05.01 L67560: Page 8 of 13

ACZ Project ID: L67560

validation because the sample concentration is too low for

accurate evaluation (< 10x MDL).

Hydro Geo Chem, Inc.

WORKNUM PARAMETER METHOD QUAL DESCRIPTION L67560-01 WG240236 Sulfate 300.0 - Ion Chromatography RA Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). L67560-02 WG240236 Sulfate RA Relative Percent Difference (RPD) was not used for data 300.0 - Ion Chromatography validation because the sample concentration is too low for accurate evaluation (< 10x MDL). L67560-03 WG240236 Sulfate 300.0 - Ion Chromatography RA Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL). RA Relative Percent Difference (RPD) was not used for data 300.0 - Ion Chromatography L67560-04 WG240236 Sulfate validation because the sample concentration is too low for accurate evaluation (< 10x MDL). L67560-05 WG240236 Sulfate 300.0 - Ion Chromatography RA Relative Percent Difference (RPD) was not used for data

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67560

No certification qualifiers associated with this analysis



Sample Receipt

ACZ Project ID: L67560 Hydro Geo Chem, Inc. 872001.0

Date Received: 2/6/2008

Received By:

Date Printed: 2/6/2008

Receipt Verification

1) Does this project require special handling procedures such as CLP protocol?

2) Are the custody seals on the cooler intact?

3) Are the custody seals on the sample containers intact?

4) Is there a Chain of Custody or other directive shipping papers present?

5) Is the Chain of Custody complete?

6) Is the Chain of Custody in agreement with the samples received?

7) Is there enough sample for all requested analyses?

8) Are all samples within holding times for requested analyses?

9) Were all sample containers received intact?

10) Are the temperature blanks present?

11) Are the trip blanks (VOA and/or Cyanide) present?

12) Are samples requiring no headspace, headspace free?

13) Do the samples that require a Foreign Soils Permit have one?

YES	NO	NA
		Х
		Χ
		Х
Х		
Х		
Х		
X		
X		
Χ		
		Х
		Х
		Х
		Χ

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)
NA5435	0.3	15

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L67560 2/6/2008

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
L67560-01	RUIZ									Χ		
L67560-02	BLOMMER									Х		
L67560-03	NOTEMAN									Х		
L67560-04	MARTIN									Х		
L67560-05	CAMPBELL									Х		

Sample Container Preservation Legend

Description	Container Type	Preservative/Limits
Raw/Nitric	RED	pH must be < 2
Filtered/Sulfuric	BLUE	pH must be < 2
Filtered/Nitric	BLACK	pH must be < 2
Filtered/Nitric	GREEN	pH must be < 2
Raw/Sulfuric	ORANGE	pH must be < 2
Raw/NaOH	PURPLE	pH must be > 12 *
Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Raw/Sulfuric	YELLOW	pH must be < 2
Raw/Sulfuric	YELLOW GLASS	pH must be < 2
No preservative needed	Not applicable	
Gamma/Beta dose rate	Not applicable	must be < 250 $\mu R/hr$
	Raw/Nitric Filtered/Sulfuric Filtered/Nitric Filtered/Nitric Raw/Sulfuric Raw/NaOH Raw/NaOH Zinc Acetate Raw/Sulfuric Raw/Sulfuric Raw/Sulfuric No preservative needed	Raw/Nitric RED Filtered/Sulfuric BLUE Filtered/Nitric BLACK Filtered/Nitric GREEN Raw/Sulfuric ORANGE Raw/NaOH PURPLE Raw/NaOH Zinc Acetate TAN Raw/Sulfuric YELLOW Raw/Sulfuric YELLOW GLASS No preservative needed Not applicable

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

10°+560

Laboratories, Inc. CHAIN of CUSTODY 2773 Downhill Drive Steamboat Springs, CO 80487 (800) 334-5493 Report to: Name: DAN SIMPSON Address: 5/WEST WETMORE ROAD SUITIOI TUGSON At 85705 Company: HらC E-mail: DANS@HGCING.COM Telephone: (500) 293 1500 X/33 Copy of Report to: Name: JM NORRIS E-mail: JIMNO HGCINC.COM Company: HTDRO GEO CHEM Telephone: (500)193 1500 x 112 Invoice to: Name: TIM NORFIS Address: 5/W.WETMORE 2D Company: HTDRO GEO CHEM #101 293 1500 x 112 E-mail: JIMN@HGCWC.COM If sample(s) received past holding time (HT), or if insufficient HT remains to complete analysis before expiration, shall ACZ proceed with requested short HT analyses? If "NO" then ACZ will contact client for further instruction. If neither "YES" nor "NO" is indicated, ACZ will proceed with the requested analyses, even if HT is expired, and data will be qualified. ANALYSES REQUESTED (attach list or use quote number) PROJECT INFORMATION Quote #: of Containers Project/PO #: Reporting state for compliance testing: 名之 Sampler's Name: ALI PANDAMOUT Are any samples NRC licensable material? SAMPLE IDENTIFICATION DATE:TIME Matrix 02/05/2008-0850 GW RUIZ 02/05/2008-1020 BW BLOMMER NOTEMAN 0210512008-1215 GW 02105/2008-1350 GW MARTIN 02/05/208-1585 GW CAMPBELL SW (Surface Water) · GW (Ground Water) · WW (Waste Water) · DW (Drinking Water) · SL (Sludge) · SO (Soil) · OL (Oil) · Other (Specify) REMARKS Please refer to ACZ's terms & conditions located on the reverse side of this COC. DATE:TIME **RELINQUISHED BY:** DATE:TIME RECEIVED BY: 02/05/2008-1640

March 11, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872001.0 ACZ Project ID: L67684

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 15, 2008. This project has been assigned to ACZ's project number, L67684. Please reference this number in all future inquiries.

Bill to:

Accounts Payable Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67684. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 11, 2008. 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.

Sue Webber has reviewed and approved this report.





Case Narrative

Hydro Geo Chem, Inc. March 11, 2008

Project ID: 872001.0 ACZ Project ID: L67684

Sample Receipt

ACZ Laboratories, Inc. (ACZ) received 1 ground water sample from Hydro Geo Chem, Inc. on February 15, 2008. The sample was received in good condition. Upon receipt, the sample custodian removed the sample from the cooler, inspected the contents, and logged the sample into ACZ's computerized Laboratory Information Management System (LIMS). The sample was assigned ACZ LIMS project number L67684. The custodian verified the sample information entered into the computer against the chain of custody (COC) forms and sample bottle labels.

Holding Times

All analyses were not performed within EPA recommended holding times.

1. The TDS analysis was completed past the hold time of 7 days due to a login error. There will be no charge for the analysis.

Sample Analysis

This sample was analyzed for inorganic parameters. The individual methods are referenced on both, the ACZ invoice and the analytical reports.

REPAD.03.06.05.01 L67684: Page 2 of 11

Hydro Geo Chem, Inc.

Project ID: 872001.0

Sample ID: WEED

ACZ Sample ID: L67684-01

Date Sampled: 02/14/08 15:10

Date Received: 02/15/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	35.6		*	mg/L	0.2	1	02/27/08 12:47	aeh/erf
Magnesium, dissolved	M200.7 ICP	14.5		*	mg/L	0.2	1	02/27/08 12:47	aeh/erf
Potassium, dissolved	M200.7 ICP	2.2		*	mg/L	0.3	2	02/27/08 12:47	aeh/erf
Sodium, dissolved	M200.7 ICP	30.0		*	mg/L	0.3	2	02/27/08 12:47	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as		162			mg/L	2	20	02/28/08 0:00	cas
CaCO3									
Carbonate as CaCO3		5	В		mg/L	2	20	02/28/08 0:00	cas
Hydroxide as CaCO3			U		mg/L	2	20	02/28/08 0:00	cas
Total Alkalinity		168		*	mg/L	2	20	02/28/08 0:00	cas
Cation-Anion Balance	Calculation								
Cation-Anion Balance		4.9			%			03/10/08 0:00	calc
Sum of Anions		3.9			meq/L	0.1	0.5	03/10/08 0:00	calc
Sum of Cations		4.3			meq/L	0.1	0.5	03/10/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	9	В	*	mg/L	5	30	03/06/08 19:27	aml/ccp
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.72			mg/L	0.04	0.2	03/10/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.72	Н	*	mg/L	0.04	0.2	02/29/08 18:09	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		UH	*	mg/L	0.02	0.1	02/29/08 18:09	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	230	Н	*	mg/L	10	20	02/26/08 8:45	cas
Sulfate	300.0 - Ion Chromatography	11.1		*	mg/L	0.5	3	02/20/08 22:10	aml/ccp
TDS (calculated)	Calculation	212			mg/L	10	50	03/10/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.08			ŭ			03/10/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67684: Page 3 of 11

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

Report Header Explanations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sample Types

AS	Analytical Spike (Post Digestion)	LCSWD	Laboratory Control Sample - Water Duplicate
ASD	Analytical Spike (Post Digestion) Duplicate	LFB	Laboratory Fortified Blank
CCB	Continuing Calibration Blank	LFM	Laboratory Fortified Matrix
CCV	Continuing 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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method. Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L67684: Page 4 of 11

ACZ Project ID: L67684



Hydro Geo Chem, Inc.

Project ID: 872001.0

Alkalinity as CaC	:03		SM2320E	3 - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240956													
WG240956PBW1	PBW	02/28/08 16:33				25.6	mg/L		-20	20			В4
WG240956LCSW2	LCSW	02/28/08 16:45	WC080131-1	820		822	mg/L	100.2	90	110			
L67721-05DUP	DUP	02/28/08 18:40			1260	1253.1	mg/L				0.5	20	
WG240956PBW2	PBW	02/28/08 20:11				U	mg/L		-20	20			
WG240956LCSW5	LCSW	02/28/08 20:24	WC080131-1	820		824.2	mg/L	100.5	90	110			
WG240956PBW3	PBW	02/28/08 23:13				U	mg/L		-20	20			
WG240956LCSW8	LCSW	02/28/08 23:25	WC080131-1	820		826.4	mg/L	100.8	90	110			
WG240956LCSW11	LCSW	02/29/08 1:11	WC080131-1	820		832	mg/L	101.5	90	110			
Calcium, dissolv	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240847													
WG240847ICV	ICV	02/27/08 12:17	II080115-3	100		95.88	mg/L	95.9	95	105			
WG240847ICB	ICB	02/27/08 12:21				U	mg/L		-0.6	0.6			
WG240847LFB	LFB	02/27/08 12:34	11080214-5	67.97008		68.5	mg/L	100.8	85	115			
L67741-01AS	AS	02/27/08 12:54	11080214-5	339.8504	507	810.5	mg/L	89.3	85	115			
L67741-01ASD	ASD	02/27/08 13:03	11080214-5	339.8504	507	824	mg/L	93.3	85	115	1.65	20	
Chloride			M300.0 -	Ion Chroma	atography	,							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14	***************************************	10.00		U	mg/L	101.7	-1.5	1.5			
WG240853LFB	LFB	03/06/08 15:32	WI080128-9	30		29.36	mg/L	97.9	90	110			
L67673-03AS	AS	03/06/08 16:44	WI080306-2	30	16.4	44.77	mg/L	94.6	90	110			
L67673-03DUP	DUP	03/06/08 17:02			16.4	16.45	mg/L				0.3	20	
Magnesium, diss	olved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240847													
WG240847ICV	ICV	02/27/08 12:17	II080115-3	100		97.91	mg/L	97.9	95	105			
WG240847ICB	ICB	02/27/08 12:21				U	mg/L	-	-0.6	0.6			
WG240847LFB	LFB	02/27/08 12:34	11080214-5	54.96908		56.29	mg/L	102.4	85	115			
L67741-01AS	AS	02/27/08 12:54	11080214-5	274.8454	429	687.3	mg/L	94	85	115			
L67741-01ASD	ASD	02/27/08 13:03	II080214-5	274.8454	429	689.1	mg/L	94.6	85	115	0.26	20	
Nitrate/Nitrite as	N, diss	olved	M353.2 -	Automated	Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241004													
WG241004ICV	ICV	02/29/08 18:02	WI071212-1	2.416		2.262	mg/L	93.6	90	110			
WG241004ICB	ICB	02/29/08 18:04				U	mg/L		-0.06	0.06			
WG241004LFB	LFB	02/29/08 18:07	WI070911-4	2		1.903	mg/L	95.2	90	110			
L67684-01AS	AS	02/29/08 18:10	WI070911-4	4	1.72	5.535	mg/L	95.4	90	110			
L67904-01DUP	DUP	02/29/08 18:12			2.95	2.946	mg/L				0.1	20	

REPIN.01.06.05.01 L67684: Page 5 of 11

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67684

Project ID: 872001.0

Nitrite as N, diss	olved		M353.2 -	Automated	I Cadmiun	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241004													
WG241004ICV	ICV	02/29/08 18:02	WI071212-1	.609		.593	mg/L	97.4	90	110			
WG241004ICB	ICB	02/29/08 18:04				U	mg/L		-0.03	0.03			
WG241004LFB	LFB	02/29/08 18:07	WI070911-4	1		.987	mg/L	98.7	90	110			
L67684-01AS	AS	02/29/08 18:10	WI070911-4	2	U	1.913	mg/L	95.7	90	110			
L67904-01DUP	DUP	02/29/08 18:12			.04	.043	mg/L				7.2	20	RA
Potassium, diss	olved		M200.7 I	СР									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240847													
WG240847ICV	ICV	02/27/08 12:17	II080115-3	20		19.97	mg/L	99.9	95	105			
WG240847ICB	ICB	02/27/08 12:21				U	mg/L		-0.9	0.9			
WG240847LFB	LFB	02/27/08 12:34	II080214-5	99.76186		104.14	mg/L	104.4	85	115			
L67741-01AS	AS	02/27/08 12:54	11080214-5	498.8093	28	549.5	mg/L	104.5	85	115			
L67741-01ASD	ASD	02/27/08 13:03	11080214-5	498.8093	28	547.2	mg/L	104.1	85	115	0.42	20	
Residue, Filteral	ole (TDS) @180C	160.1 / S	M2540C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240825													
L67784-01DUP	DUP	02/26/08 9:11			720	726	mg/L				0.8	20	
WG240825LCSW	LCSW	02/26/08 9:42	PCN28838	260		294	mg/L	113.1	80	120			
WG240825PBW	PBW	02/26/08 9:45				U	mg/L		-20	20			
Sodium, dissolv	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240847													
WG240847ICV	ICV	02/27/08 12:17	II080115-3	100		99.05	mg/L	99.1	95	105			
WG240847ICB	ICB	02/27/08 12:21				U	mg/L		-0.9	0.9			
WG240847LFB	LFB	02/27/08 12:34	11080214-5	98.21624		102.19	mg/L	104	85	115			
L67741-01AS	AS	02/27/08 12:54	11080214-5	491.0812	133	639.5	mg/L	103.1	85	115			
L67741-01ASD	ASD	02/27/08 13:03	II080214-5	491.0812	133	635.6	mg/L	102.3	85	115	0.61	20	
Sulfate			300.0 - 10	on Chromat	ography								
			000.0 10	iii Cilioillat	- 3								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
ACZ ID WG240083	Туре	Analyzed				Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240083			PCN/SCN	QC							RPD	Limit	Qual
WG240083 WG240083ICV	ICV	02/07/08 16:57				50.44	mg/L	Rec 100.7	90	110	RPD	Limit	Qual
WG240083			PCN/SCN	QC							RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB	ICV ICB	02/07/08 16:57 02/07/08 17:15	PCN/SCN WI080128-8	QC 50.1		50.44 U	mg/L mg/L	100.7	90 -1.5	110 1.5	RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB WG240083ICV1	ICV ICB ICV	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47	PCN/SCN WI080128-8	QC 50.1		50.44 U 51.13	mg/L mg/L mg/L	100.7	90 -1.5 90	110 1.5 110	RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB WG240083ICV1 WG240083ICB1	ICV ICB ICV	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47	PCN/SCN WI080128-8	QC 50.1		50.44 U 51.13	mg/L mg/L mg/L	100.7	90 -1.5 90	110 1.5 110	RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB WG240083ICV1 WG240083ICB1 WG240628	ICV ICB ICV ICB	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47 02/09/08 12:05	PCN/SCN WI080128-8 WI080128-8	9C 50.1 50.1		50.44 U 51.13 U	mg/L mg/L mg/L mg/L	100.7	90 -1.5 90 -1.5	110 1.5 110 1.5	RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB WG240083ICV1 WG240083ICB1 WG240628 WG240628ICV	ICV ICB ICV ICB	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47 02/09/08 12:05 02/20/08 16:08	PCN/SCN WI080128-8 WI080128-8	9C 50.1 50.1		50.44 U 51.13 U	mg/L mg/L mg/L mg/L	100.7	90 -1.5 90 -1.5	110 1.5 110 1.5	RPD	Limit	Qual
WG240083 WG240083ICV WG240083ICB WG240083ICV1 WG240083ICB1 WG240628 WG240628ICV WG240628ICB	ICV ICB ICV ICB	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47 02/09/08 12:05 02/20/08 16:08 02/20/08 16:26	WI080128-8 WI080128-8 WI080220-1	90 50.1 50.1 50.1		50.44 U 51.13 U 50.64	mg/L mg/L mg/L mg/L mg/L	100.7 102.1 101.1	90 -1.5 90 -1.5	110 1.5 110 1.5	RPD	Limit	
WG240083 WG240083ICV WG240083ICB WG240083ICV1 WG240083ICB1 WG240628 WG240628ICV WG240628ICB WG240628LFB	ICV ICB ICV ICB ICV ICB	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47 02/09/08 12:05 02/20/08 16:08 02/20/08 16:26 02/20/08 16:44	WI080128-8 WI080128-8 WI080220-1 WI080128-9	50.1 50.1 50.1 30	Sample	50.44 U 51.13 U 50.64 U 30.49	mg/L mg/L mg/L mg/L mg/L mg/L	100.7 102.1 101.1 101.6	90 -1.5 90 -1.5 90 -1.5	110 1.5 110 1.5 110 1.5	RPD 0.2	Limit	
WG240083 WG240083ICV WG240083ICB WG240083ICB1 WG240083ICB1 WG240628 WG240628ICV WG240628ICB WG240628LFB L67668-03AS	ICV ICB ICV ICB ICV ICB ICH	02/07/08 16:57 02/07/08 17:15 02/09/08 11:47 02/09/08 12:05 02/20/08 16:08 02/20/08 16:26 02/20/08 16:44 02/20/08 21:34	WI080128-8 WI080128-8 WI080220-1 WI080128-9	50.1 50.1 50.1 30	Sample	50.44 U 51.13 U 50.64 U 30.49 39.09	mg/L mg/L mg/L mg/L mg/L mg/L mg/L	100.7 102.1 101.1 101.6	90 -1.5 90 -1.5 90 -1.5	110 1.5 110 1.5 110 1.5			Qual M2

REPIN.01.06.05.01

L67684: Page 6 of 11

Hydro Geo Chem, Inc.

ACZ Project ID: L67684

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67684-01	WG240847	Calcium, dissolved	M200.7 ICP	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
		Magnesium, dissolved	M200.7 ICP	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
		Potassium, dissolved	M200.7 ICP	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
		Sodium, dissolved	M200.7 ICP	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.
	WG241202	Chloride	M300.0 - Ion Chromatography	DJ	Sample dilution required due to insufficient sample.
	WG241004	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	C4	Confirmatory analysis was past holding time.
			M353.2 - Automated Cadmium Reduction	DJ	Sample dilution required due to insufficient sample.
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	C4	Confirmatory analysis was past holding time.
			M353.2 - Automated Cadmium Reduction	DJ	Sample dilution required due to insufficient sample.
			M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240825	Residue, Filterable (TDS) @180C	160.1 / SM2540C	H1	Sample analysis performed past holding time.
	WG240628	Sulfate	300.0 - Ion Chromatography	M2	Matrix spike recovery was low, the recovery of the associated control sample (LCS or LFB) was acceptable.
	WG240956	Total Alkalinity	SM2320B - Titration	B4	Target analyte detected in blank at or above the acceptance criteria.
			SM2320B - Titration	QA	Sample container with preservation type specified by the method was not available for analysis. Alternate sample container was used.

L67684: Page 7 of 11

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67684

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: L67684 2/15/2008

Received By:

Date Printed: 2/15/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Χ
Х		
Х		
Х		
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Х		
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		Х
		Х
		Х
		Х

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)
1996	1.8	15

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

Notes

REPAD.03.11.00.01

L67684: Page 9 of 11

Sample Receipt

Hydro Geo Chem, Inc.

872001.0

ACZ Project ID: Date Received: Received By: L67684 2/15/2008

. 2/13/2

Sample Container Preservation	11	1	
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SAMPLE	CLIENT ID	R < 2	G < 2	BK < 2	Y< 2	YG< 2	B< 2	0 < 2	T >12	N/A	RAD	ID
L67684-01	HULL									Χ		

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
Т	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μR/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

ACZ Laboratories, Inc.

2772 0 - 476 0 - 61 - 4		0001.00	4 5 400				CI		OI C	JUST	ו עט
2773 Downhill Drive Steamboo Report to:	it Springs, CO 80487 (8	300) 33	4-5493	î							
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Name: Dan Simps	, ,	7	Addr							Re c	<u> </u>
Company: Hydro Geo E-mail: dans @ hor		_	Telephone: (520) 293-1500 x 133								
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Copy of Report to:											_
Name: Jim Norris		-	E-ma	<u>ال: نا</u>	m n	<u>e h</u>	gcir	100	Com	<u></u>	-
Company: HGC			Telep	hone:	(520	2) 29	13-15	,00	<u>x 11</u>	2	
Invoice to:											
Name: Jim Vorri	\$		Addr	ess:	al	bov					
Company: HGC		_	ļ								
E-mail: jimn e no	yeinc. com		Telep	hone:	a	bor	<u> </u>		<u></u>		
If sample(s) received past holdi	-				•	е			YES		_
analysis before expiration, shall if "NO" then ACZ will contact cl	•			-					NO		_]
is indicated, ACZ will proceed w						data w	ill be q	ualified.			
PROJECT INFORMATION			AN/	ALYSES	REQU	ESTED	(attacl	n list or	use qu	uote nui	mber)
Quote #: FM CQB-	GW									T	Ţ-
Project/PO #: 87200	1.0		E				ļ				ĺ
Reporting state for compliar	ice testing: AZ		of Containers	,							
Sampler's Name: Kw 🛊			∣ਲੋ	<u>ئ</u> ر							
Are any samples NRC license	ıble material?	1	# of	80						1	
SAMPLE IDENTIFICATION	DATE:TIME	Matrix									
HUYEL	2/14/08	GW	ł	/							
WEED											
SW 3-11-08											
:							·				
		<u></u>									
Matrix SW (Surface Water) • (GW (Ground Water) · WW (W	/aste Wat	er) · DV	V (Drink	ing Wat	er) · Sl	_ (Sludg	e) - SO	(Soil) ·	OL (Oil)	Other
REMARKS/ SAMPLE DISCLOS	URES										
•	· •,										
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Placed rafer	to ACZ's terms & cond	litione l	ncated	l on th	e reve	area ci	de of	thie CC) C		
RELINQUISHED BY:			ocatec			/ED B		ulio U		ATE:TI	ME
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March 10, 2008

Report to:

Dan Simpson
Hydro Geo Chem, Inc.
51 West Wetmore Road Suite 101
Tuscon, AZ 85705

cc: Jim Norris

Project ID: 872002.2 ACZ Project ID: L67812

Dan Simpson:

Enclosed are the analytical results for sample(s) submitted to ACZ Laboratories, Inc. (ACZ) on February 22, 2008. This project has been assigned to ACZ's project number, L67812. Please reference this number in all future inquiries.

Bill to:

Accounts Payable
Hydro Geo Chem, Inc.

P. O. Box 97220

Phoenix, AZ 85060

All analyses were performed according to ACZ's Quality Assurance Plan, version 12.0. The enclosed results relate only to the samples received under L67812. Each section of this report has been reviewed and approved by the appropriate Laboratory Supervisor, or a qualified substitute.

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

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

All samples and sub-samples associated with this project will be disposed of after April 10, 2008. 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.

Tony Antalek has reviewed and approved this report.





Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: LAWSONTVI875

ACZ Sample ID: L67812-01

Date Sampled: 02/21/08 09:30

Date Received: 02/22/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	120			mg/L	0.2	1	02/22/08 19:27	aeh/erf
Magnesium, dissolved	M200.7 ICP	16.1			mg/L	0.2	1	02/22/08 19:27	aeh/erf
Potassium, dissolved	M200.7 ICP	2.9			mg/L	0.3	2	02/25/08 16:10	aeh/erf
Sodium, dissolved	M200.7 ICP	41.1			mg/L	0.3	2	02/25/08 16:10	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		161			mg/L	2	20	02/26/08 0:00	jlf
Carbonate as CaCO3		11	В		mg/L	2	20	02/26/08 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	02/26/08 0:00	jlf
Total Alkalinity		172			mg/L	2	20	02/26/08 0:00	jlf
Cation-Anion Balance	Calculation								
Cation-Anion Balance		-0.5			%			03/07/08 0:00	calc
Sum of Anions		9.3			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		9.2			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	20.1		*	mg/L	0.5	3	03/06/08 23:41	aml/ccp
Fluoride	SM4500F-C	0.2	В	*	mg/L	0.1	0.5	02/29/08 12:14	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	2.99			mg/L	0.04	0.2	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	2.99		*	mg/L	0.04	0.2	02/22/08 20:42	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	02/22/08 21:39	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	630		*	mg/L	10	20	02/28/08 10:47	cas
Sulfate	300.0 - Ion Chromatography	244		*	mg/L	3	10	03/06/08 23:59	aml/ccp
TDS (calculated)	Calculation	565			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.12						03/07/08 0:00	calc

Arizona license number: AZ0102

Hydro Geo Chem, Inc.

Project ID: 872002.2

Sample ID: GARNER557

ACZ Sample ID: L67812-02

Date Sampled: 02/21/08 13:10

Date Received: 02/22/08

Sample Matrix: Ground Water

Metals Analysis									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Calcium, dissolved	M200.7 ICP	62.2			mg/L	0.2	1	02/22/08 19:31	aeh/erf
Magnesium, dissolved	M200.7 ICP	10.2			mg/L	0.2	1	02/22/08 19:31	aeh/erf
Potassium, dissolved	M200.7 ICP	2.5			mg/L	0.3	2	02/25/08 16:13	aeh/erf
Sodium, dissolved	M200.7 ICP	58.1			mg/L	0.3	2	02/25/08 16:13	aeh/erf
Wet Chemistry									
Parameter	EPA Method	Result	Qual	XQ	Units	MDL	PQL	Date	Analyst
Alkalinity as CaCO3	SM2320B - Titration								
Bicarbonate as CaCO3		171			mg/L	2	20	02/26/08 0:00	jlf
Carbonate as CaCO3		13	В		mg/L	2	20	02/26/08 0:00	jlf
Hydroxide as CaCO3			U		mg/L	2	20	02/26/08 0:00	jlf
Total Alkalinity		184			mg/L	2	20	02/26/08 0:00	jlf
Cation-Anion Balance	Calculation								
Cation-Anion Balance		-1.5			%			03/07/08 0:00	calc
Sum of Anions		6.7			meq/L	0.1	0.5	03/07/08 0:00	calc
Sum of Cations		6.5			meq/L	0.1	0.5	03/07/08 0:00	calc
Chloride	M300.0 - Ion Chromatography	14.3		*	mg/L	0.5	3	03/07/08 0:17	aml/ccp
Fluoride	SM4500F-C	0.2	В	*	mg/L	0.1	0.5	02/29/08 12:24	jlf
Nitrate as N, dissolved	Calculation: NO3NO2 minus NO2	1.7			mg/L	0.2	1	03/07/08 0:00	calc
Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	1.7		*	mg/L	0.2	1	02/22/08 20:44	pjb
Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction		U	*	mg/L	0.01	0.05	02/22/08 21:42	pjb
Residue, Filterable (TDS) @180C	160.1 / SM2540C	420		*	mg/L	10	20	02/28/08 10:48	cas
Sulfate	300.0 - Ion Chromatography	123		*	mg/L	1	5	03/07/08 0:35	aml/ccp
TDS (calculated)	Calculation	394			mg/L	10	50	03/07/08 0:00	calc
TDS (ratio - measured/calculated)	Calculation	1.07						03/07/08 0:00	calc

Arizona license number: AZ0102

REPIN.02.06.05.01

L67812: Page 3 of 12

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

Damant	Handau	Error Inc.	
Report	meader	EXDIA	nations

Batch A distinct set of samples analyzed at a specific time

Found Value of the QC Type of interest Limit Upper limit for RPD, in %.

Lower Lower Recovery Limit, in % (except for LCSS, mg/Kg)

MDL Method Detection Limit. Same as Minimum Reporting Limit. Allows for instrument and annual fluctuations.

PCN/SCN A number assigned to reagents/standards to trace to the manufacturer's certificate of analysis

PQL Practical Quantitation Limit, 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 % (except for LCSS, mg/Kg)

RPD Relative Percent Difference, calculation used for Duplicate QC Types

Upper Upper Recovery Limit, in % (except for LCSS, mg/Kg)

Sample Value of the Sample of interest

QC Sai	

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

QC Sample Type Explanations

Blanks Verifies that there is no or minimal contamination in the prep method or calibration procedure.

Control Samples Verifies the accuracy of the method, including the prep procedure.

Duplicates Verifies the precision of the instrument and/or method.

Spikes/Fortified Matrix Determines sample matrix interferences, if any.

Standard Verifies the validity of the calibration.

ACZ Qualifiers (Qual)

B Analyte concentration detected at a value between MDL and PQL.

H Analysis exceeded method hold time. pH is a field test with an immediate hold time.

U Analyte was analyzed for but not detected at the indicated MDL

Method References

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

Comments

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

REPIN03.02.07.01

L67812: Page 4 of 12

Hydro Geo Chem, Inc. ACZ Project ID: L67812

Project ID: 872002.2

Alkalinity as CaC	O3		SM2320E	3 - Titration									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240781													
WG240781PBW2	PBW	02/25/08 15:18				U	mg/L		-20	20			
WG240781LCSW5	LCSW	02/25/08 15:30	WC080131-1	820		860.2	mg/L	104.9	90	110			
WG240781PBW3	PBW	02/25/08 18:42				U	mg/L		-20	20			
WG240781LCSW8	LCSW	02/25/08 18:54	WC080131-1	820		870.7	mg/L	106.2	90	110			
WG240781PBW4	PBW	02/25/08 22:14				U	mg/L		-20	20			
WG240781LCSW11	LCSW	02/25/08 22:28	WC080131-1	820		884.8	mg/L	107.9	90	110			
L67820-03DUP	DUP	02/26/08 8:57			639	694.9	mg/L				8.4	20	
WG240781LCSW14	LCSW	02/26/08 9:10	WC080131-1	820		882.2	mg/L	107.6	90	110			
Calcium, dissolve	ed		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240749													
WG240749ICV	ICV	02/22/08 17:26	II080115-3	100		96.63	mg/L	96.6	95	105			
WG240749ICB	ICB	02/22/08 17:30				U	mg/L		-0.6	0.6			
WG240749LFB	LFB	02/22/08 17:45	11080214-5	67.97008		67.7	mg/L	99.6	85	115			
L67798-02AS	AS	02/22/08 18:46	11080214-5	67.97008	.3	64.8	mg/L	94.9	85	115			
L67798-02ASD	ASD	02/22/08 18:49	11080214-5	67.97008	.3	65.88	mg/L	96.5	85	115	1.65	20	
Chloride			M300.0 -	Ion Chroma	atography	<i>'</i>							
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	19.98		20.32	mg/L	101.7	90	110			
WG241202ICB	ICB	03/06/08 15:14	VV1000220-1	13.30		20.32 U	mg/L	101.7	-1.5	1.5			
WG24120210B WG240853LFB	LFB	03/06/08 15:32	WI080128-9	30		29.36	mg/L	97.9	90	110			
L67781-05AS	AS	03/06/08 21:16	WI080306-2	30	U	30.39	mg/L	101.3	90	110			
L67781-05DUP	DUP	03/06/08 21:34	W1000000 Z	00	U	U	mg/L	101.0	00	110	0	20	R/
Fluoride			SM4500F	-C									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240977													
	10) (00/00/00 0 05	14/0000007.4	0		0.04	,,	400	00	440			
WG240977ICV	ICV	02/29/08 9:25	WC080227-1	2		2.04	mg/L	102	90	110			
WG240977ICB	ICB	02/29/08 9:32		_		U	mg/L	400.0	-0.3	0.3			
WG240977LFB1	LFB	02/29/08 9:48	WC080226-1	5		5.46	mg/L	109.2	90	110			
WG240977LFB2	LFB	02/29/08 11:16	WC080226-1	5		5.16	mg/L	103.2	90	110			
L67812-01AS L67812-01DUP	AS DUP	02/29/08 12:17 02/29/08 12:20	WC080226-1	5	.2 .2	5.56 .2	mg/L mg/L	107.2	90	110	0	20	R/
		02/29/00 12.20			.2	.2	mg/L				-	20	10
Magnesium, diss			M200.7 I		0 1		11.4				DDD	1	0 1
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240749													
WG240749ICV	ICV	02/22/08 17:26	II080115-3	100		99.42	mg/L	99.4	95	105			
WG240749ICB	ICB	02/22/08 17:30				U	mg/L		-0.6	0.6			
WG240749LFB	LFB	02/22/08 17:45	11080214-5	54.96908		55.35	mg/L	100.7	85	115			
L67798-02AS	AS	02/22/08 18:46	11080214-5	54.96908	U	51.42	mg/L	93.5	85	115			
L67798-02ASD	ASD	02/22/08 18:49	11080214-5	54.96908	U	51.82	mg/L	94.3	85	115	0.77	20	

REPIN.01.06.05.01 L67812: Page 5 of 12

(800) 334-5493

Hydro Geo Chem, Inc. ACZ Project ID: L67812

Project ID: 872002.2

Nitrate/Nitrite as	s N, diss	olved	M353.2 -	Automated	l Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240762													
WG240762ICV	ICV	02/22/08 19:40	WI071212-1	2.416		2.424	mg/L	100.3	90	110			
WG240762ICB	ICB	02/22/08 19:41				U	mg/L		-0.06	0.06			
WG240762LFB	LFB	02/22/08 19:46	WI070911-4	2		2.009	mg/L	100.5	90	110			
WG240762ICV1	ICV	02/22/08 20:32	WI071212-1	2.416		2.404	mg/L	99.5	90	110			
WG240762ICB1	ICB	02/22/08 20:33				U	mg/L		-0.06	0.06			
L67812-01AS	AS	02/22/08 20:43	WI070911-4	4	2.99	7.259	mg/L	106.7	90	110			
L67812-02DUP	DUP	02/22/08 20:45			1.7	1.77	mg/L				4	20	RA
Nitrite as N, dis	solved		M353.2 -	Automated	l Cadmiur	n Reduc	tion						
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240762													
WG240762ICV	ICV	02/22/08 19:40	WI071212-1	.609		.625	mg/L	102.6	90	110			
WG240762ICB	ICB	02/22/08 19:41				U	mg/L		-0.03	0.03			
WG240762LFB	LFB	02/22/08 19:46	WI070911-4	1		1.023	mg/L	102.3	90	110			
WG240762ICV1	ICV	02/22/08 20:32	WI071212-1	.609		.627	mg/L	103	90	110			
WG240762ICB1	ICB	02/22/08 20:33				U	mg/L		-0.03	0.03			
WG240762ICV1	ICV	02/22/08 21:36	WI071212-1	.609		.635	mg/L	104.3	90	110			
WG240762ICB1	ICB	02/22/08 21:38				U	mg/L		-0.03	0.03			
L67812-01AS	AS	02/22/08 21:40	WI070911-4	1	U	1.025	mg/L	102.5	90	110			
L67812-02DUP	DUP	02/22/08 21:43			U	U	mg/L				0	20	RA
Potassium, diss	solved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240797													
WG240797ICV	ICV	02/25/08 14:33	II080115-3	20		19.95	mg/L	99.8	95	105			
WG240797ICB	ICB	02/25/08 14:37				U	mg/L		-0.9	0.9			
WG240797LFB	LFB	02/25/08 14:49	11080214-5	99.76186		101.04	mg/L	101.3	85	115			
L67797-04AS	AS	02/25/08 15:36	11080214-5	99.76186	10.6	113.13	mg/L	102.8	85	115			
L67797-04ASD	ASD	02/25/08 15:39	11080214-5	99.76186	10.6	115.65	mg/L	105.3	85	115	2.2	20	
Residue, Filtera	ble (TDS	6) @180C	160.1 / S	M2540C									
ACZ ID	Type	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240937													
WG240937PBW	PBW	02/28/08 10:45				U	mg/L		-20	20			
WG240937LCSW	LCSW	02/28/08 10:46	PCN28838	260		292	mg/L	112.3	80	120			
L67837-05DUP	DUP	02/28/08 11:00			20	U	mg/L				200	20	RA

REPIN.01.06.05.01 L67812: Page 6 of 12 Hydro Geo Chem, Inc.

ACZ Project ID: L67812

Project ID: 872002.2

Sodium, dissol	ved		M200.7 I	CP									
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG240797													
WG240797ICV	ICV	02/25/08 14:33	II080115-3	100		97.3	mg/L	97.3	95	105			
WG240797ICV	ICV	02/25/08 14:33	11080115-3	100		99.41	mg/L	99.4	95	105			
WG240797ICB	ICB	02/25/08 14:37				U	mg/L		-6	6			
WG240797ICB	ICB	02/25/08 14:37				U	mg/L		-0.9	0.9			
WG240797LFB	LFB	02/25/08 14:49	11080214-5	98.21624		101.64	mg/L	103.5	85	115			
WG240797LFB	LFB	02/25/08 14:49	11080214-5	98.21624		99.1	mg/L	100.9	85	115			
L67797-04AS	AS	02/25/08 15:36	11080214-5	98.21624	161	254.5	mg/L	95.2	85	115			
L67797-04AS	AS	02/25/08 15:36	11080214-5	98.21624	161	249.66	mg/L	90.3	85	115			
L67797-04ASD	ASD	02/25/08 15:39	11080214-5	98.21624	161	255.05	mg/L	95.8	85	115	1.56	20	
L67797-04ASD	ASD	02/25/08 15:39	11080214-5	98.21624	161	258.5	mg/L	99.3	85	115	1.56	20	
Sulfate			300.0 - Io	n Chromat	ography								
ACZ ID	Туре	Analyzed	PCN/SCN	QC	Sample	Found	Units	Rec	Lower	Upper	RPD	Limit	Qual
WG241202													
WG241202ICV	ICV	03/06/08 14:56	WI080220-1	50.1		50.51	mg/L	100.8	90	110			
WG241202ICB	ICB	03/06/08 15:14				U	mg/L		-1.5	1.5			
WG240853LFB	LFB	03/06/08 15:32	WI080128-9	30		30.26	mg/L	100.9	90	110			
L67781-05AS	AS	03/06/08 21:16	WI080306-2	30	U	29.59	mg/L	98.6	90	110			
L67781-05DUP	DUP	03/06/08 21:34			U	U	mg/L				0	20	

REPIN.01.06.05.01 L67812: Page 7 of 12

ACZ Project ID: L67812

Hydro Geo Chem, Inc.

ACZ ID	WORKNUM	PARAMETER	METHOD	QUAL	DESCRIPTION
L67812-01	WG241202	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240977	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).
	WG240762	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241202	Sulfate	300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
L67812-02	WG241202	Chloride	M300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240977	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).
	WG240762	Nitrate/Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
		Nitrite as N, dissolved	M353.2 - Automated Cadmium Reduction	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG240937	Residue, Filterable (TDS) @180C	160.1 / SM2540C	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).
	WG241202	Sulfate	300.0 - Ion Chromatography	RA	Relative Percent Difference (RPD) was not used for data validation because the sample concentration is too low for accurate evaluation (< 10x MDL).

Certification Qualifiers

Hydro Geo Chem, Inc. ACZ Project ID: L67812

No certification qualifiers associated with this analysis



Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received:

L67812 2/22/2008

Received By:

Date Printed: 2/22/2008

Receipt Verification

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

YES	NO	NA
		Х
		Х
		Х
Х		
X		
X		
Χ		
Х		
Х		
		Х
		Χ
		Х
		Х

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)
NA5542	1.1	15

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

Notes

Sample Receipt

Hydro Geo Chem, Inc.

872002.2

ACZ Project ID: Date Received:

L67812 2/22/2008

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
L67812-01	LAWSONTVI875		Y									
L67812-02	GARNER557		Υ									

Sample Container Preservation Legend

Abbreviation	Description	Container Type	Preservative/Limits
R	Raw/Nitric	RED	pH must be < 2
В	Filtered/Sulfuric	BLUE	pH must be < 2
BK	Filtered/Nitric	BLACK	pH must be < 2
G	Filtered/Nitric	GREEN	pH must be < 2
0	Raw/Sulfuric	ORANGE	pH must be < 2
Р	Raw/NaOH	PURPLE	pH must be > 12 *
T	Raw/NaOH Zinc Acetate	TAN	pH must be > 12
Υ	Raw/Sulfuric	YELLOW	pH must be < 2
YG	Raw/Sulfuric	YELLOW GLASS	pH must be < 2
N/A	No preservative needed	Not applicable	
RAD	Gamma/Beta dose rate	Not applicable	must be < 250 μ R/hr

^{*} pH check performed by analyst prior to sample preparation

Sample IDs Reviewed By:		

ACZ Labo	ratories, Inc.	-	(2)	8/2	7		CH	AIN (of Cl	UST	ODY
2773 Downhill Drive Steambo	at Springs, CO 80487 (a	800) 33	4-5493	3	_						
Report to:		_									
Name: Dan Simpson			Addr	ess: ¿	51 (1.1	Vetn	none	Rd		
Company: Hydro Geo Cl	rem Inc.			7	ucson	AZ)	85	705	-	
E-mail: dans hacine	. com		Tele	ohone:	520)	293	-15	00	X13	3	
Copy of Report to:					,						
Name: Jim Norris			F-ma	iil· Ś	imne	1	'				
Company: HGC Inc.			Teler	hone.	520	nge,	nc.co	om on	115		
			TOICE	J11011C.	3 & 0	101	273	OO X	112		
Invoice to:					- 1					,	
Name: Jim Norris		-	Addr		<u>51 </u>			_	_	<u>d. </u>	
Company: HGC Inc		-		•	1630		,	_85	7 <i>05</i>		
E-mail: Jimn@ hgci					520		<u> 13-1</u>	500	<u> </u>	72	
If sample(s) received past hold analysis before expiration, shal	• • • • • • • • • • • • • • • • • • • •								YES NO	X	
If "NO" then ACZ will contact of	•			-					140		J
is indicated, ACZ will proceed v						lata wil	l be qu	alified.			
PROJECT INFORMATION			ANA	ALYSES	REQUE	STED (attach	list or t	use quo	te nun	nber)
Quote #: FMCQB-C	sW		"		¥						
Project/PO #: 87200	2.2		l er	1	, 7, _						
Reporting state for complia	nce testing: AZ		of Containers	6	30				i		
Sampler's Name: Mark	Arneson		S	1	10,	,					ļ
Are any samples NRC licens			# of	3	55	1/k					
SAMPLE IDENTIFICATION	DATE:TIME	Matrix		13	13	1					
LAWSONTVI875	2/21/08: 0930	GW	3	Х	X	X					
CAPAITO CC3	2/10/ 12/0	1,,	3	-							
GARNER 557	2/21/08: /3/0	GW	حـ	X	X	Χ					
									-		
		+									——
,		-									
-	-	+		-							
<u> </u>		- 									
Matrice (SW (Sweep and Matrice)	CM (Crowned Money) Mills (1)	Vanta 16/14	\ D1	At /Duinle		\ C!	/Cl		5-33 6	(0:1)	
Matrix SW (Surface Water) REMARKS/ SAMPLE DISCLOSE	GW (Ground Water) · WW (V	vaste vvat	er) · D	W (Drink	ing wate	er) · SL	(Sluage) - 50 (Soil) - C	IL (UII)	· Otner
REMARKS/ SAMPLE DISCLOS	SURES										
•										•	
											PAGE
											of
/ Please refer	to ACZ's terms & cond	ditions l	<u>ocate</u> c	d on th	<u>ie re</u> ve	rse sid	le of ti	his CO	C.		
RELINQUISHED BY					RECEIV					TE:TIN	4E
//////////////////////////////////////	2/21/08:	624	(1	15	<				WW.	(0)	3
7 7 0 7 1 0 0 7 1				-1 <u>-</u>					v By	.पिके	

APPENDIX E HYDRO GEO CHEM, INC. GROUNDWATER SAMPLING FORMS



Groundwater Sampling Form

Project No.	8720	201.0			Client:	PHELPS DODGE COPPER QUEEN BRANCH			
ell ID:	AND	ERSON			Date:	3-20-0	つく		
ADWR No.	6/33	396			Weather:	clear			
Location: 3	272 Na	eo Huy	S,		Collected By:	MA			
	Bisbee								
					WELL DATA				
Well Depth (f	t bis):	536			Static Water Le	vel (ft bmp):	145.46)	
Casing Diame	eter (in):	B"			Date/Time:	3-20-0	8 10:	05	
Well Use:	all don	restic Per	rooses		Point of Measur		TOC		
3 Casing Volu		736x3	= 709		GPS:	12R 6011	34 UTM	3468816	
					Elevation:		96		
				FIELD	SAMPLING D				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	На	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
1010	10	Ö	7.27	18.0	1/54	clear	No	gren bit at 1010	
1015	11	50	7.25	20.5	1150	11	11		
1030	11	200	7.21	21.5	1176	11	11		
1045	11	350	7.24	21.6	1179	61	10		
1100	1,	500	7.27	21.6	1180	lq	11		
1115	lı	650	7.24	21.2	1169	11	1.		
1130	10	800	7.25	21.1	1176	//	10	4	
				SAMP	LE INFORMAT	ION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes	
ANDER	SON	11:35	Plaskie	120ml	1	300.0	None	Filtered	
Additional Co	mments:								

Purdy Lane

Rorn

Rorn

Rorn

Rorn



Project No.	870	001.0			Client:	PHELPS DO	DGE COPPER	R QUEEN BRANCH
ell ID:	BAN				Date:	2/27/	08	
ADWR No.	EDITOR OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN	047986			Weather:	sunny		
Location:	620 E 1	Nu berry	Lane		Collected By:	MA ŧ	KW	
					WELL DATA			
N	· b.le.\.	435.8	6 wner	1	Static Water Lev	vel (ft bmp):	+22.97	- unveliable good rep
Well Depth (f	•	6'		.3	Data Time:	2127100	12.	21 obstruct
Casing Diame		27/15	***************************************		Point of Measur	ement:	T.O.C.	3469205
Well Use: 3 Casing Vol	WATER CONTRACTOR OF THE PARTY O	casing 33°	1 , 2 ~ 1	11/1/2	GPS:	2R 060698	92. um	3469205
o casing von	illes.	(with) JJ		<u> </u>	Elevation:	46	54	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
14:06	8ී	Ø	7.49	21.7	990	none	hone.	
14:10	8	37	7.51	21.7	991	· tx	E 6.	
14:15	M.	72	7.51	21.9	990	£ 6.	Le	
14:20	и	155	7.53	21.8	986	L	16	
14:25	, ,	162	7.53	21.8	980	11	16	
					PLE INFORMAT			
			Container	SAIWI	No. of	Analysis		
Sam	oie ID	Time	Container Type	Volume	Containers	Method	Preservative	Notes
BANK	(S	14:30	plastic	250	1	300.0	N	filtered
				2.0	1	() 11 m h	125 0	is witten on
Additional Co		Atri Sa Riam	· satstina	wells re	HOPTS LINUX CON	The 445 b	15. 402.0	13 VULLICAL OV
Additional Co	omments:	ADUR reg		7)	1112	a thing d	livtra lile	are univer 208 1011
Additional C	omments:	pump in	ouso.	Poss obs	truction 143	g. Very deculation	livty. We 2 hour	are using 208 WL wholes using this well
Water System S	Schematic:	From oth	ser well	Poss obs for purg	struction 143 ye time ca	culation screen	2 how 2 how 647.87 2v.d. we	are using 208° WL scholds using this well H20 Level



	Or our navie	itor oumpini	.g . 0					
Project No.	87	2002.2)		Client:	PHELPS DC	DGE COPPE	R QUEEN BRANCH
/ell ID:	BF-				Date:	03/04/0	×8	
ADWR No.	55-	53978	3		Weather:	Sunnu	4	
Location:	D.23-2	4-3bb	>		Collected By:	KW + 7	A-N	
					WELL DATA			
Well Depth (f	ft bls):	400			Static Water Le	4	34	
Casing Diam	, ,		1/	The account of the ac	Date/Time:	03/04/08	12:39	3
Well Use:	Mo	nitorina			Point of Measu	rement:	T.O.G	
3 Casing Vol		33 gal	x 3 = 9	19	GPS:			3472150 UTM
					Elevation:	480	7	
	1	T =	T	FIELD	SAMPLING D	ATA	1	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	На	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
12:48	8	0	6.53	21.8	2730	slightly clay	none	few dark seds + light
12.52		35	6.43	21.9	2728	14	~	Colored Suspended fines
12:54	ran ou	+ 016 ho	ter					
13:10	8	U	6.46	21.9	2745	6(none	brown flakes
омного жого учество и месторого пред сесторожения от			64					
	Total dis	thorge =	# gal	ons				
nersuurinassen massannassan massannassan massan					**************************************			
	Section 1			SAMP	LE INFORMAT	ION		
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
BF-1		13:10	plastic	15 25° 150	3	300.0	4/N/N	
Additional Co	mments:	Well ran	out of 10	sater a	then 8 mi	nutes. A	lowed to	re charge
		15 minut	es, ping	je hose	amount,	Then co	uect san	ple
				7	,			
Nater System S	chematic:							
		_	So Tailiv	igs lu	rp			
				patenting a destrict representation to execute uniquestable than		,		,
	\		Horse	e Shoe F	rond			
	` `					/		
			Control of the second s	the same of the sa	Balm	~/		
	`		6	BF-I				
			The same of the sa	-				



Property of the second second						Was the control of th		
Project No.	87	2001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
ell ID: 5	5-577	92.7			Date:	2-6-08		
IADWR No.	BIN	1A	TOTAL DE STORY OF THE STORY OF		Weather:	CLEAR		
I	1	C. D.	,	20.5-//	Collected By:	API MA		
Location.	11.20114	Sr, Bis	bee Jua	ction	Conected by.	HP/ P/H	······································	
					WELL DATA			
Well Depth (ft	hie):	4601			Static Water Le	vel (ft hmn):	ORSTRI	ICTION AT 350ft
		700		**************************************	1	and a contract of		CHON AT SSOFE
Casing Diame					1		500	
Well Use:	Vonest	- 6	10 11 7	0 0 4 1	Point of Measur		TOC	
3 Casing Volເ			8 x3 =			3971	K59 10	R.0606003
		234:10	= 24W		Elevation: SAMPLING D.	4794		
		Tatal		FIELL		AIA	T	
Time	Discharge	Total Discharge	На	Temp (°C)	Specific Conductance	Color	Odor	Comments
	Rate (gpm)	(galions)	μ	10111	(µScm)	00.0.	Cuoi	Comments
1523	10		4.79	17-8	1330	CLOAL	N	
1524	11		1015	18.5	1335	<i>u</i>	n	gastarises (g
1527	10		6.68	20.3	1342	-	P	ggarmide
7532	11		6.66	71.1	1324	N	N	· ·
1536	11		6.68	22,0	1342	N	B	gaige Faith
1545	N		6.69	22.2	1335	a	Co.	energy.
		. 1			_			
	17	THE	DI	SH	4865	water the same of	1920	
)		11	+ 1.			C		
				SAME	LE INFORMAT	ION	•	
Samp	ie ID	Time	Container	Volume	No. of	Analysis	Dropomotivo	Nadaa
Camp			Type	Volume	Containers	Method	Preservative	Notes
BIMA	}	1550	PLASTIC	125/250/	700 9 3	300-0	YININ	Assessment (SAM)
- Landing Control of the Control of								Congression
Additional Co	mments:	M. 5:e.	old ind	icased	well depth	(x 460)	and well	casing is 4"
						- Andrew		3.3

Water System S	chematic:						a saccina as recumentarios per la c	
	1							
I // .							Til	110=4
	1						1/50	ANGOR
H		1	The state of the s				14	AB16012
	\	5						AND THE RESIDENCE OF THE PARTY
Selections Selections	1						V	
			And the state of t					
	\	7						
	1	<	MARIE STATE OF THE PARTY OF THE	and a surject of the first of the first of the same of the first of the same of the first of the same			7	
	\	2		1-	O a		1 HAVA	16ERS
		4RIZONH		12	-910 We	U	1 ""	
		M	1 7	PILMO	4 1		and the second s	
	1	N.	1	1000	Water		- www.	gygg O telycynal gefeiriaiddio Thaann mahainn haan yn han y gawy talacann agan gan y daell y daell y daell y d
J	1		1 4	MUSE	1. 17		1,1.	NGERS-
	PUMP HOUSE				tank		1 HA	MODDY.



galanem et alemanica about de la composition della composition del				entrikonni en esemple kollen met in en en elektroni				
Project No.	87200	01.0	######################################		Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
ell ID:	Blom	IMER			Date:	021051	2008	
ADWR No.	645	536	633	472	Weather:	CLEAL		
Location:	Barnet	+ Rd Sa	in Juse		Collected By:	AP/MI	9	
					WELL DATA			
Well Depth (f	t bis)·	3 <i>50</i>			Static Water Le	vel (ft hmn):	Ohumi	. at 277'
Casing Diam		6		**************************************	1	and the same of th	10:00	4 0/1
Well Use:	glens _{be}	restic	William Committee Committe		Point of Measur			
			-44 0 (ed.) · 1 ·				00
3 Casing Vol	umes.	will pu	ga rov	,	Elevation:	3471532 4769	3_ KO 1 (ft)	002 726
	, 			FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1000	10		7.34	17,0	720	CLEAR	N	SIMESFDIMENIT
1005	N		7.47	17.8	716	N	-	0
1010	C		7.45	20.2	717	(N)	131	0
1015	a		7.43	20.2	214	CLOUDY	N	BROWNISH and
								SEDIMENT
	TOTA		1 6	110		-		
	0/1	L 12	100	11140	Company of the compan	000	6.	
				SAME	LE INFORMAT	ION		
Samı	ale ID	Time	Container		No. of	Analysis	5 0	
Sam	JIE ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
BLOMI	MER	1020	PLASTIC	250	/	300.0	N	Congression for the Congre
Additional Co	omments:	ONLY O	NE WE	U WA	SFOUND	ON THE	PROPORT	TY AND IT
		WAS ID	ad as	BLOM	MER			
Water System S	Cohomatic			Zanaka di kacaja ka ya maka ka sa				
water System	schemauc:			D WEL	us.			Λ
			/	الب کس	ank			7
			1.4	Language				' /
				House I	} /			N
	. /	/ X		# 1 1 m		romakandy		
	108		~ 1					
	Lance .		1 <1	PORAGE		b		
	•				BHOOL	0		
						3		
					1	4		
						SBARNET		
						V)		
À			Management of the Assessment		CONTRACTOR AND AND AND COLOR SECTION SECTION AND AND AND AND AND AND AND AND AND AN	V.		
\mathbf{f}			Mc	DONAL	7			



Project No. PII ID: ADWR No. Location: Well Depth (1	55-602 EAST	LARD 134 Hore			Client: Date: Weather: Collected By: WELL DATA Static Water Lev	PHELPS DODGE COPPER QUEEN BRANCH 4-23-08 Clear MIT: Evel (ft bmp): Obstructed at 258' 4-23-08 11:45			
Casing Diam		6"			Date/Time:	4-23-08			
Well Use:	Domes	<u> ۲٬ </u>	·		Point of Measur		TOL		
3 Casing Vol	umes:				GPS:		33 347	0982	
					Elevation:	465.5			
				FIELL	SAMPLING D	ATA			
Time	Discharge Rate (gpm)	Total Discharge (galions)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
Sam	pie ID	Time	Container Type	SAMF	PLE INFORMAT No. of Containers	TON Analysis Method	Preservative	Notes	
Additional C	omments:	Well	is not	operat	Jana), (J.	20 LEVEL	ONLY -	OBSTRUMEN	
Water System	Schematic: Hull Rane Rd	Theo	And the second s		House			well (X) approx 200' East of house	



Project No.	8-1	12001.	0		Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Well ID:	Ru	IRKE			Date:	02107/		
ADWR No.	2	1226	ጸ		Weather:	CLEAR		
Location:					Collected By:	CLEAR AP/M/	IRKA.	
	W. C.				WELL DATA			
Well Depth (f	t bis):	780			Static Water Le	vel (ft bmp):	7 600	T.t
Casing Diam	· · · · · · · · · · · · · · · · · · ·	6	()		Date/Time:	= 9/07/0	Ø	
Well Use:	. ` '				Point of Measur	rement:	TOC	
3 Casing Vol	umes:	Buil	er		GPS: (TM:	347363	31 1220	602231
					Elevation:	-347363 -347363 -4833 ATA		
				FIELD		ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1235	NA		7.17	23.0	411	CLEAR	N	COMPOSITE
			•					
		· ************************************						
-				CARA	LE INFORMAT	101		
			Container		No. of	Analysis		
Samp	ole ID	Time	Type	Volume	Containers	Method	Preservative	Notes
BURK	E	1240	PLASTIC		3	300.0	KININ	
_				500			Outstanding controlled the whole of controlled controll	
Additional Co	mments:							
	-	······································						
Water System S	Schematic:							1
Water System C				λ	(
National Commence of the Comme	BRUI	VE BRIT	_	1	\			1
	PROF	ERTY	•		\			1
	•							
)			1 4
				}		VAC	CA ST.	3
				/!		7/10	/ 4 400-	
						7/10	//	H. H.
						7/10		16/4
						7/10		HIGHWA
WELL						7/10		Hath
WELL						7/10		to Hoth
WELL WO						7/10		NACO HIGH
WELL D			use]			7/10	i	NACO HIGH



	20.00					and the second of the second o		
Project No.		001.0			Client:			R QUEEN BRANCH
ell ID:	CAMI	BELL			Date:	02/05/2		
ADWR No.	2155	09	malanulari maranga kananga kan		Weather:	CLEAR.	·	
Location:		l			Collected By:	AIM		
					WELL DATA			
Well Depth (ft bis):	NA			Static Water Le	vel (ft bmp):	180.	60
· · Casing Diam	-	######################################	5"			0210	5/2008	Man Marian
Well Use:		OMESTI			Point of Measu	rement.		70C
3 Casing Vol		Baile			GPS: UTM	346937	2. R 12	0606416
		Larry			Elevation:	4687		0 606 416
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1500	NA		7.87	18.3	823	BROWNISH	N	
······································								
								
			ļ	<u> </u>				
		AND THE RESERVE OF TH		<u> </u>				
<u> </u>							·····	
<u> </u>				SARAE	LE INFORMAT	ION		
			Container	JAIM!	No. of	Analysis		
Sam	ple ID	Time	Type	Volume	Containers	Method	Preservative	Notes
CAMPI	BELL	1515	PLASTIC	250	1	300-0	N	
anno anno anno anno anno anno anno anno								
Additional C	omments:	THIC	WASCI	OLLECT	ED BY	BAILER		
							1.1-	
		THEKE	13 14	FULL	FI GIII	HER WE		
Water System	Schematic:							
	4	13481	21	5509				
Stark	-campbe	el M	(III)	•			1	BRIDGE
	\$				1			· ·
	- Anna Contract of the Contrac		A)	ampu Jell	d			PAILWAY
				1011				LATIC WAT
	HOUSE	: [V	JOH				A
1	110 01 - 0							\ \
		, h					\	
	AND THE REAL PROPERTY OF THE P	430000000000000000000000000000000000000						
		**Common of any	enthograment and provide the contract of the last of t	And the Control of th				and the second s
		x	SAI	JUAR	A			
			5/10	900/10	N			



						377000000000000000000000000000000000000		
Project No.	87	72001.8	9		Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Vell ID:	CHAM	BERS			Date:	3-6-0		
ADWR No.	55-4	29807	r History of the company of the comp		Weather:	Sunny.	cool	
Location:	3792 S.	Towner	•		Collected By:	Sunny, Kw+MA		
				4	WELL DATA		Section 188	
Well Depth ((ft bls):	24	15		Static Water Lev	vel (ft bmp):	— unab	ole to measure
Casing Dian	neter (in):	b			Date/Time:			well design
Well Use:	dome	estic_			Point of Measur	ement:	**************************************	
3 Casing Vo		unkno	wn		GPS: uTim	346738	5 × 06 00	00 24
					Elevation:		2	
			24	FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
9 30	5	0	7.43	13.1	415	Hon Clear	None	
932	5	10	7.60	16.4	411	**	• •	
937	5	35	7.70	17.4	408	5-4		
9 42	5	60	7.72	17,5	408	64	٠(
947	5	85	7,73	17.8	408		.*	
			<u> </u>					
)							<u> </u>	
				SAMP	LE INFORMAT	ION		•
Sam	ıple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
CHAM	BERS	0950	plastic	250	l	300.0	2	filtered
DUP03	0608	ly .	6.0	ţt	š.	300.0	N	C)
Additional C							the big re-	numberine was
		regula					7 40. 96 112.	
Water System	Schematic:	0			r			
**************************************		access well thra gate	on Vaknzuelg				1 N	
		Valenzuda			The state of the s	SULTATION IN COLUMN 1		
daugsgezorini	And the second s	ę.	ett til med den skille ster skille),	Approximation of the second se	The constitution of		
	Near-resignant .	Ta'v I	Processing American	x 3300	2	ě		
(Chambers Pesidence		Cortal	700			



Principal Company of the Company of	Contraction of the second section of the second			SAN TO THE PROPERTY OF THE PRO	·			
Project No.	8720	02.2	o-O-riva variotimien variotimi		Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Well ID:	COB	MW-			Date:	2-22-8	8	
ADWR No.	55903	3992			Weather:	Clear		
Location:			(e a = 94	Purey LA	Collected By:	Arneson	/ Thoma	4
	Bisber 1	228 5K	20,		,		-/	2.22
					WELL DATA			
Well Depth ((ft bis):	42	ED'		Static Water Le	vel (ft bmp):	232.47	
Casing Dian		084	<u> </u>		Date/Time:	2 27		8:00
Well Use:		ustrial			Point of Measu	romant:		
3 Casing Vo		1469	1		GPS:		Top of	***
o Casing Vo	iunies.	1767	. 2 24/		1	12R060	The second secon	n 3469888
				EIEI T	Elevation: SAMPLING D	4+01	'amsi	
		Total		FIELL		AIA	1	
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
811	01	10	6,99	19.5	1412	Clear	Nove	810 open discharge
813	10	30	7.00	2013	1396		www.	
816	10	60	6.92	21.1	1392			
818	10	90	6.93	21.2	140)			
		The second se						

				<u> </u>		<u> </u>		
MATERIAL PROPERTY AND ADDRESS OF THE PARTY AND		·						
				CARRE	LE INFORMAT	ION		
			Container	JAM				
Sam	iple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
Additional C	omments:	Pina in	Carobia		entin Co	4 . (Lala Alas I	
		- 1 1 1	-	la de la decembra de	t .	*		wee Sypt
	•	<u>Cal(ulet</u>	AN HARE	2011	Not dear	ray Nrccee		
Water System	Sobometic							
water System	Schematic:							
	1				cility Road			No.
	e decembra			C 4. W.				T- Birth
Λ	NA STATE OF THE ST		and the same	1 5A1	Tose Ereck	Mr AZ		
()		Mary	, (Q)		acilly	and the second		all survey.
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					Bob Kasum Place			
			Washington of Marin Lands on		and the second			CAN ARTHUR
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			10.00	1-an				
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Project No.	8720	# 2.Z			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
ell ID:	COB	-MW-2			Date:	5-52-	- ଅନ୍ତ	
ADWR No.		03984			Weather:	Clear		
Location: C	on Golf Compt Golf Compt Dr. Golf Com Cover Bu	t Rond ab	our Go's	enth or	Collected By:	Arneson	Thomps	ON
		<u> </u>	9.00	e e	WELL DATA			
Well Depth ((ft bls):	162			Static Water Le	vel (ft bmp):	122.85	
Casing Dian	neter (in):	4"			Date/Time:	2-22-0	/	
Well Use:	Me	ostovi.	~ C\		Point of Measur		Iso at	Casina
3 Casing Vo		770			GPS:	12 R 06	ž.	UTM 3468117
		-			Elevation:		4545' AM	
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (galions)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
951	10	10	7.32	19.3	421	Close	None	950 Pincon
956	10	G D	7,30	20.1	473	1	Determ	
959	10	90	7.28	200,2	417	- K	V	
e de la companya del companya de la companya de la companya del companya de la co								
THE POST OF COMPANY OF THE PROPERTY OF THE PRO								

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<u> </u>			Marrie Constitution of the					
				CABAL	LE INFORMAT	JON		
			Container	JAMI	No. of	Analysis		
Sam	pie ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
COB-M	S-W	19:00	Plastic	125/250/25	. 3	300.0	NHO2/Non/A	L Fillsile
DUPO	72200	10:00	Plastic	125/254/25		300.0	1/	Duplicate
Additional C	omments:	Dubl	Maria xori berinda kanada ya kata wa k	mole C		A STATE OF THE PARTY OF THE PAR	Ec	
		Fiel	d blank	man page	07.27.09			
			O DIVIN	<u> </u>				
Water System	Schematic:	Control of State (State					.5	
A								
//				CREEN 1	BOSH DRAW			
77 Control (1)					<u></u>		er deliningen gegen	
. K	U:	rt Care	- I grand			guigad, pageiros con removir desconsidades hacement infrancisco en citizadorio. Con escrito del terro con transconsidades en citizadorio en consideradorio en consideradorio en consideradorio	on a constant de la c	
N	D.Y	is consult	< 5				Si manananaha	
			onishinangan in a			(X)	namuah noodda	
				Martine in the second of the second s	and the contract of the contra	Roll	<u> </u>	No.
				2010		41610		
				710,0	-C 0		1	
		***************************************		(Och	36		3	
		10	1200156			/		
) V	# Colf		1 of the State of		- Contraction	
		,	NAME OF THE PROPERTY OF THE PR		gystydd gladd gladd ag gladd gymru. Lladd o dei yr llad y gan	2000 for the 1000 to his wide the experience of the significant will be experienced to the contract of the con		
				N)	ewell Ra	.5		
				10	the and the B. B. T. Town.	v		



roject No.	871	2002.2	THE CONTRACTOR OF THE PARTY OF		Client:	PHELPS DOD	GE COPPER	R QUEEN BRANCH
ell ID:		MW-3	3		Date:	2/29/08		
DWR No.		906823			Weather:			
	12 Water				Collected By:	KW + M		
D - 24 - 1	12 water	iac			Jones 2, .			
- ~ 1-					WELL DATA			
ell Depth (ft	bls):	300	(Gaston)	Static Water Lev	vel (ft bmp):	120.84	
asing Diame		4			Date/Time:	2/20/03		
ell Use:	-	nitorina	7		Point of Measur	ement:	TOG	
Casing Volu		116 gal x		8	GPS: 12 R	0599169	× utm 31	+68726
oueg		117 gal x			Elevation:		30	
		11 1 100 7	, = ==,		SAMPLING D	ATA		
	Discharge	Total			Specific			_
Time	Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	(µScm)	Color	Odor	Comments
10:47	20	20	7.57	21.2	473	none/	none	Prepapon 1046
10:51	11	100	7.43	21.0	420	" Clear	. (
10:54	u	160	7.39	21.1	420	и	ν _ξ	
10:57	- 61	220	7.42	20.9	420	и	*1	
11:00	h	280	7.38	2(.	417	u_	ч	
11:03	u	340	7.38	21.0	418	(1)	u	
11:06	61	400	7.39	21.0	416	Li Li	(1	
Samp	ale ID	Time	Container	SAMI Volume	PLE INFORMAT	Analysis	Preservative	Notes
Janip	ne ib	Inne	Туре		Containers	Method	***************************************	
MW-30	OB	11:10	plastie	12 20 W	<u>3</u>	300.0	A/N/N	
Additional Co	mments:		ston fr		STWW TI	E Perty.	We we	re escented
Vater System S	schematic:							
KOC I			GB	Draw				
well O	try tank	M	W-3COF	3	7	r Red		
					A C	Jillson		



Project No.					Client:	PHELPS DODGE COPPER QUEEN BRANCH			
Well ID:	<u> (68 - </u>	COB-WARRAN LABOUR				7-22-08 Clear			
ADWR No.	55-S								
Location: A	Bout 1/2M N COB DIN 4th reten	acces po	J. M. L. Boy	then thor	Collected By:	Arneco	-/-Daw	7001	
					WELL DATA				
Well Depth (1	t bis):	150	D '		Static Water Le	vel (ft bmp):	565	(Z)	
Casing Diam	eter (in):	4''			Date/Time:	2-22-0	THE PARTY OF THE P	4	
Well Use:		Horin x	D-TOUR MICHELES CONTROL OF A SHARE WHILE WHILE A SHARE WHILE WHILE A SHARE WHILE WHILE A SHARE WHILE WHI		Point of Measur	ALTO COLOR DE COLOR D		Cacino	
3 Casing Vol		182 00		**************************************	GPS:	2 /7 M	S D G R S G	UTM 84-72556	
				h-Mond-H-Children (Antological Statement on an an anasca-	Elevation:	4.0	A-7 AMSL		
				FIELD	SAMPLING D				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
855	10	10	7.12	18.9	9/6	Clear	NONA	Pump on at 854	
857	12	30	7,00	20.1	922		1		
902	10	.80	698	20,6	92/	No.	ACC COLOR		
926	10	120	6,99	2016	019		N/		
Sam	pie ID	Time	Container	Volume	No. of	Analysis	Preservative	Notes	
1.1.22		6/14	Type	US.	Containers	Method	11110		
WARRENL	acoom as	9:10	Plackie	128/25/25	3	300,0	JANO3/NON/NS	A Commission of the Commission	
Additional Co									
1					age de la companya d	OLI	WATER TRE	ATMENT PNDS(DOV)	



/ell ID: ADWR No. Location:		2001. C 250 6 9 W. Purdi	harles		Client: Date: Weather: Collected By:	PHELPS DODGE COPPER QUEEN BRANCH 03/04/08 SUNNY, COOR KW + MA					
Location.	/T	w. ruioi	3 Laik		,	100 F M	. A				
					WELL DATA						
Well Depth (fi	•	220)		Static Water Level (ft bmp): 155.08 bts Date/Time: 03/04/08 8:03						
Casing Diame	eter (in):	6			Date/Time: 03/04/08 8:03						
Well Use:		nestic.	·		Point of Measur	Point of Measurement: T.O.C.					
3 Casing Volu	ımes:	95.4x3	=286		GPS:	2R 060135	50 y with 3	3468915			
					Elevation:	4607					
				FIELD	SAMPLING D	ATA	grind the same				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments			
8:22	6	6	6.95	19.5	1902	clear	none	few light brown flake			
8:26	(1	<i>3</i> 0	7.01	19.9	1914	И	И	wry tow flakes			
8:30	"	54	7.02	19.9	1914	и	9.8				
8:34	11	78	7.05	20.4	1908	41) 3	10 61 C.			
8:41	AL	120	7.05	20.0	1910	ų t	11	no more stakes			
8:48	4	162	7.03	20.9	1909	. 41	10	e l			
8:55	и	204	7.02	20.8	1892	и	ч	ч			
		*									
)	[
				SAMP	LE INFORMAT	ION					
Samp	ele ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes			
COOPER	C	9:00	plastic	250	1	300.0	N	filtered			
	,		Y								
Additional Comments: Family of 4, well water into leaking Discharge is therefore		well i king u	is well us	sed. W	her pury	s is on it pushes					
Water System S	THE RESIDENCE OF THE PROPERTY	yn Crav	ige is +	nevero	u great	er over a	al them	7gpm from both			



			WA	WINDOWS IN THE STATE OF THE STA							
Project No.	87;	2000			Client:	FMI Sierrita Operations					
Phase No.	2.	S			Date:	3/20/08					
Well ID:	6001	PER C			Weather:	cles					
ADWR No.	55-63				Collected By:	MA					
					Andrew Committee of the						
				WEL	L DATA	The second second					
Well Depth (ft bls):	220	-		Time:	12:29		<u> </u>			
Casing Diameter	(in):	6			Point of Measur	ement:	TOC				
Static Water Leve	el (ft bmp):	154.9			GPS:		346891	5			
1 Casing Volume	(gals):	94.5			Elevation:						
3 Casing Volume	. =		36 m.	· Durat		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
				s puise							
		1.00		FIELD SAM	IPLING DATA						
Time	Discharge Rate	Total Discharge	рН	Temp	Specific Conductance	Color	Odor	Comment			
	(gpm)	(gallons)	(SU)	(°C)	(µS/cm)		040.	Commont			
1235	8	8	6.88	24.1	2055	Clear	None	openbib@ 1234			
1237	8	24	689	72.2	2065	 					
1241	8	56	6.92	21.7	7084	 					
1746		96	6.92	21.5	2086						
1251	8	136	6.95	21,5	2082 2086						
1301	2	716	6.92	21.4	7088						
1306	8	256	6.92	21.3	2080						
1311	Ŕ	296	693	21.3	2081	V	√				
	7										
							·				
				SAMPLEIN	FORMATION						
Service Assessment	•		Container		No. of	Analysis					
Sample	e ID	Time	Type	Volume	Containers	Method	Preservative	Comment			
COOPER	C	1315	Plastic	250ml	2	EPA 300.0	NO3/Non	e Filtered			
COOPER	RC	1315	Plastic	250 -500 ml	1	EPA 300.0	None	Unfiltered			
Additional Comm	ents:	Resar	npled	for fu	11 Suite	>		Michigan Company			



Project No.	et No. <u>872002.</u> 2				Client:	PHELPS DODGE COPPER QUEEN BRANCH			
√ell ID:	COOPER, Teresa			Date:	2-14-08				
ADWR No.		623564			Weather:	windy, pt cloudy			
Location: 💆	2171 5.	Naco H	wy	ppowerbusto Dibilità alla edita di cara del sustanti del per ferman	Collected By:	KW *	AP	3	
	San José)			WELL DATA				
Well Depth (f	ft bis):	32	5		Static Water Le	vel (ft bmp):	un abbe	to measure	
Casing Diam	eter (in):	6"			Date/Time:	2-14-08			
Well Use:	d	omesti	7		Point of Measu	*	- countries		
3 Casing Vol	umes:				GPS:	UTM 34716	087 12R	0602138	
					Elevation:	4759			
				FIELD	SAMPLING D	ATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
9:.53	¹ Amongonomo	*September of the september of the septe	7,63	14.1	371	clear	none	eomposite spl few brown flake Sediments	
			Container		PLE INFORMAT	ION Analysis			
Sam	ple ID	Time	Туре	Volume	Containers	Method	Preservative	Notes	
COPE	<u> </u>	10:00	plastic	8/14/50	3	300,0	y/N/N	composite	
Additional Co		1)0 access Sample 3 people	to take	WL or rage to	Sample ik. Pressi icial vent	from well we tank of	head, m/d/ v w	12):11 take composion 5 minutes.	
	Konth Control	drive		Of the aire	commercial blue				



Project No.	87200	52.S			Client:	PHELPS DO	DDGE COPPE	R QUEEN BRANCH		
ell ID: Dadson				Date:	2/20/08 Over cast, Windy					
ADWR No. 55-644927									Weather:	
Location: 235 Party Lane Bisber Az 85628					Collected By:	Arneson / Thompson				
1	Bishee A=	50828 3) }:							
					WELL DATA					
Well Depth (ft bis):	200'	<u> </u>		Static Water Le	vel (ft bmp):	78' bls Me	sund on 66-2001		
Casing Diam	eter (in):	6"			Date/Time:	2/20		A		
Well Use:	Dom	<u> </u>	<u>Supply</u>		Point of Measu	rement:	Top of Cass	w.e.		
3 Casing Vo	umes:	<u>537 a</u>	- Control of the Cont	******************************	GPS:	***************************************		<u>m 3469065</u>		
	1 () () () () () () () () () (1		Elevation:	460	A AMSL			
		7		FIELL	SAMPLING D	ATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	На	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
1136	3	3	7,48	14.1	858	Clear	New	1135 opened howish		
11420	3	15	7.56	17.6	860					
1144	3	27	7.60	181	858		. Desired			
1147	3	35	7.GI	173	857	N/C				
William Company and the company of t										
e Transfer Mariana e de como como e referença de como e de c										
erite at the state at the state of the state										
9770-07-07-048-0-05-05-05-00-07-08-07-07-07-07-07-07-07-07-07-07-07-07-07-										
With the same of t								Control of the second s		
				CARAE	PLE INFORMAT	I ON				
			Container	JAIVIT	No. of	Analysis				
Sam	pie ID	Time	Туре	Volume	Containers	Method	Preservative	Notes		
<u>D005</u>	<u> </u>	1/50	Plastic	165/250	3	3000	HNOE NORE			
Antirium management and management	2 Million Marchael Sales Barbara Contract (1884) (1864)									
Additional C	omments:	Could	not c	o borno c	1 2 Mx	rabs was	Loky	For access hale		
		in	Will Co	<u> </u>	Purged We	I UMIN P	h/Ec and	Lemp Davametre St		
Water System	Schematic:									
				formación en como y						
		WE	LL	7 04	Zam Wellan					
		1	ousé	L-constraint and the last of t	Comment (N Comment					
				derental and delegated to the	set z elektris vezz és üvojokus benedekele nesén jakolójásasásá a szágynalásabben a listerát.	th the associated property of the control of the co				
				AT	CACHED H ARAGE	ens €				
					HIM G &					
					1					
		N			- Harris Control of the Control of t					
					trobilization de la constitución					
			\$150016400maana	S*************************************						
	Luman		A 12. Annua na		Purdy lar		Desport and are control of the composition of the least to the control and device the section of the control and the control a	5 4		
					· UI OJ EN	3. E.				



Anna and the second sec								
roject No.	8720	01.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
√ell ID:	Doug	LASS '	791		Date:	2-13-0	78	
ADWR No.		592791			Weather:			oudes.
Location:	Marine Commission of the Commi				Collected By:	APE	, pt. cl KW	3
D-24.2	4-12 bet	> NW	corner of 40	pack pance	le .		1370	
					WELL DATA			
Well Depth (1	it bis):		200		Static Water Le	vel (ft bmp):	22.11	
Casing Diam	eter (in):	5"			1	2-13-08		
Well Use:	unus	**************************************	two do	noction	Point of Measur		TOC	
3 Casing Vol			7,0310 001		1	UTM 3470		
	,					12R 060		
				FIELD	SAMPLING D		102	
		Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)		Color	Odor	Comments
		**************************************	militi in					
		~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~						
TOTAL OF BEHAVIOR OF THE STATE								
			***************************************					
		***************************************						
)								
				SAME	PLE INFORMAT		T	
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
Province and a second s			Type	-	Containers	Metriou		
			L.					
Additional Co		Well ho				neasured;		
		No puny	0, no p	ower.	Imdevelo	ped land	. Future of	lomestic well
	and the second districts of the second secon							
Water System S	Schematic:							
						D. 3	4-24-121	BCB
			Parameter and a second		The state of the s			
			Ow	ell				
					The state of the s			
				14 a 66	¢ Salaran			
				40 acre	)			
					Benefitzen			
					to cathair			
			<u></u>	The state of the s	Manus e excentina para para para para para para para pa			
Į		UK						
<u> </u>	pl 39-	2075						



Project No.	8720	01.0			Client:	PHELPS DO	OGE COPPER	R QUEEN BRANCH
	DOUGLA		2		Date:	2-13-08	<b>)</b>	
ADWR No.	55-59	72792			Weather:	windy,	partly e	loudy
Location:					Collected By:	AP + KL		
D-24-24	-11dab	NW E	orner of 35	.97 pape	VELL DATA			
			7			vel (ft bmp):	×2776	
Well Depth (f	-	<u>2 co</u> 5 "					0(,1%)	
Casing Diam		***			Point of Measur	2-13-08	T.O.C	
well use: 3 Casing Vol	<u>not in</u>	<u>use</u>				ATM 346983		0603606
s casing voi	umes.				Elevation:	4659	DI ICK	0807808
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
<del></del>								
44-00-00-00-00-00-00-00-00-00-00-00-00-0								
à								
		·						
				SAME	PLE INFORMAT	T	1	I
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
nen erenen eren eren eren eren eren ere								
Additional C	omments:							stic use.
		Measure	d W.L.	only;	no sample	. No p	ump, no	power.
Water System	Schematic:	maer	uopea	and				
ivator Gyotom								
						D-24-	24-11 dab	
			Contraction of the Contraction o	and the special for the control of the special state of the special stat				
			0 10	eld	No. of the second			
-				35.97				
				aire	5			
			K)					
			1		J			
			San	Marine and the second	and the second s	,		
				x RR				
				1/10				
Parcel	101 - 39	1-004	- nai#					



Project No.	878	2001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Well ID:	_EA	-ST	and the second s		Date:	02/08/	2008	
ADWR No.	590	7796 JUNC	····	en o de la companya	Weather:	CLEAR		
Location:	BISBE	JUNC	TION		Collected By:	AP/MI	9	
		,			WELL DATA			
Well Depth (f	t bis):	1256	Ft)		Static Water Le		50.20	
Casing Diam	eter (in):	<u>_@"</u>		**************************************	Date/Time:	02108	12008	
Well Use:		<del></del>			Point of Measu		TOC	
3 Casing Vol	umes:	110 x3:	<u> </u>	5-22		346871.	3 12R 0	667076
					Elevation: SAMPLING D	A.T.A		
		Total		FILLL	Specific	AIA	T	
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Conductance (µScm)	Color	Odor	Comments
1839	15	15	7.07	17.4	562	CLEAR	$\sim$	
0841	N	45	7.27	19.1	423	N	M	
0845	"	105	7.42	19.6	416	N		
0848	N	150	7.46	19.8	420	N	n	
0856	11	180	7.45	19.9	423	C4	<i>n</i> /	
}								
		16		SAME	PLE INFORMAT	TION		
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
EAST		0900	PLASTIC	125/250	3	300.0	7/1/10	
Additional Co	mmente:		1					
Auditional Co	mments.							· · · · · · · · · · · · · · · · · · ·
			VIII TOLUM		of an annual control of the control		Allow Properties Assessed to public Marketine and the	The second secon
Water System S	Schematic:	en To	WARD	ARIZ	DNA AST			N 4
		1	. ,		./			7
	\	. ,		MUNA	7			•
	,	1	V	AID				
	(A)		Ja.					
<u> </u>	<u> </u>	+ -		Managagana a.			ı	
	<del>Q</del>	t /-	Production and Control of the Contro					
	B	1 /						
The state of the s		<i>'</i>						
			•					
			Фринандация всегодничностиция (Монторово	AND THE PROPERTY OF THE PROPER	etectronico de la companio de la co	and the second and th		takeed till de, gergen produkter som den bygger kennesse kan som de stade fra til de stade kommen kommen som e Till de stade fra som en stade fra som en som e
To the second se								
)			State of the state	M-The stream control of the first of the fir	din di mentangkan din kilan sejakan kentan mengan pengan pengan pengan pengan pengan pengan pengan pengan pengan	eennemaanistationeennemaanistationistationistationistationistationistationistationistationistationistationista	1.00	NELL
							1' W	[HOUSE]
Nema								1 HOUSE/



-effect								
Project No.	872	001.0			Client:	PHELPS DOD	GE COPPER	R QUEEN BRANCH
all ID:		LUND		,	Date:	02/12/0	8	
ADWR No.		5260			Weather:	Sunny	, warn	
Location:	2331 Co		RA		Collected By:	KW -	AP	
	San Jo					-		
					WELL DATA			
Well Depth (ft	t bls):	320		***	Static Water Lev	-	289.4	
Casing Diame	eter (in):	41/2			Date/Time:	02/12/08	13	: 03
Well Use:	day	mestic \	JUWSIA		Point of Measur		T.O.C.	
3 Casing Volu	ımes:	25 x	3 = 75	5	GPS:	UTM 347	11339 1	2R 0602548
	•		7.5 0		Elevation:	4735 ft	amsl	
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
13.22	10		6.83	21.9	1488	none	hone	few brown sedimen
13.24	ч		6.83	21.7	1470	14	И	few br + wh sedements
13. 27	a		6.85	21.6	1469	4.0	14 .	trace brown seds
13.31	4		6.88	21.6	1467	ů.	v	i A
	10	TAL	D	54	TARGE	- 90	GLS	
				SAMI	PLE INFORMAT	TON		
Samı	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
ENG	LUND	13:35	plastic	250	l	300.0	N	
Additional Co	omments:	House fo	r Sale, v	vell prob	pably not u	sed for aw	hile	
Water System	Schematic:							
N I	2							
	H WW	Grana	da	neknings entletenningsteinnen				
	NACO				20 Cole mar	7 7 3		
Approximately and a second	\(\si\)				2332 COJE	] 3		
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							AND THE PROPERTY OF THE PROPER			
Project No.	8720	01.0	Michigan by the constraint of		Client:	PHELPS DODGE COPPER QUEEN BRANCH				
ell ID:	_55-8	05641	1-6		Date:	3-11-08				
ADWR No.	EPPL	ELE			Weather:	Clear, bi	een v			
Location:					Collected By:	MA				
8	Mulber	ry Lan	e Bisbe	e. A2	_					
		,			WELL DATA					
Well Depth (f	t bis):	265			Static Water Le	vel (ft bmp):	29.52			
Casing Diam	eter (in):	8"		,	Date/Time:	3-11-08				
Well Use:	Domestic	drinking	Juter /1	Columbian		<del></del>	TOC	The second of the second secon		
3 Casing Vol		615=1	ce vol.	(Ayatisa	1			1 3469230		
		5441 = .	70500		Elevation:	4640		· UNI WOU		
7	101 - 0	9377 - 8	20011176	FIELD	SAMPLING D					
	Di-shawa	Total			Specific					
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Conductance (µScm)	Color	Odor	Comments		
1143	9	9	7.00	15,6	744	Wear	None			
1146	9	36	7.26	70.1	742					
11.51	9	81	7.45	21.2	752					
1203	9	189	7.42	21.6	757					
1212	9	270	7.41	21.3	759					
1243	9	675	7.53	21.4	722					
1255	16	979	7.88	21,4	644	Slight tan	None			
1256	wel	Pumpe			Recover	/				
1330			7.98	21.4	646					
	0.041 (1.0410010) (0.041010)									
		I	T	SAME	PLE INFORMAT		T			
Samı	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes		
EPPEL	E 641	1330	Plastic	250 m	/	300.0	None	Fiftered SO4		
	-							•		
Additional Co	omments:	Difficul	4 40 det	elmine C	asing dia.	but is b	etween 7"	and 911		
					9					
							0.00			
Water System S	Schematic:									
								IAZ		
							well well	Cartus		
							≪ .			
							9			
							No. of the last of	I and the second		
							Section of the sectio			
							and the second second			
	·	,						House		
	Mullo	erry Lan	E	and the second s	e e menos su en plan e su como su escribiro de su escribir de la seguinte de la como de	The best war to be about the control of the place of the control of the department of the control of the contro				
	1	. —								
, 3										
7	12									



ADWR No.	87200 EPPEL 55-80	05642			Client: Date: Weather:	PHELPS DODGE COPPER QUEEN BRANCH 3-//-08 C/ear			
Location:	Mulber	ry Lune	Bishee,	H2	Collected By:	m A			
					WELL DATA				
Well Depth (for Casing Diamo Well Use: 3 Casing Volu	eter (in):	40°			Elevation:	3-11-08/ rement: 12 R 0607 46	158 UTM		
				FIELD	SAMPLING D	ATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
Samp	ble ID	Time	Container Type	SAMF Volume	PLE INFORMAT  No. of  Containers	ION Analysis Method	Preservative	Notes	
			гурс		Containers	Wethou			
Additional Co	omments:	This is a submersu whone cou and I u	a hand-e ble pung nversution as unab	but in that in	with old is disconned this well is pasure dept	windmill retel and To s no longer th to water	etrofitted Ed Eppele in use, T	with a  Stated in a  The well is covered	
) ⁾									



Project No. 'ell ID: ADWR No. Location:		<u>LE643</u>	ne Ril	eo 142	Client: Date: Weather: Collected By:	PHELPS DO 3-11-08 Clear MA	DGE COPPER	R QUEEN BRANCH	
	O THUIDE	ily wal	TIC USD	er, MC	WELL DATA				
Wall Danth (	4 ble):	165				rol (ft hama)	30' (198		
Well Depth ( Casing Diam		unknown			Static Water Leventer Date/Time:		1		
I		Irrigusion			I	3-11-08	/ 12.00		
Well Use: 3 Casing Vol		/ 111 gus. 0 x			Point of Measurement:  GPS:				
				FIELD	Elevation: SAMPLING D		4593		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
			-	SAMF	LE INFORMAT		T		
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes	
	######################################								
Additional C	ZOJONI TOMOGRAFIJSKI SOM						wood floor, discompleted	ing of the ed and TEO home conversation.	
Water System	Scnematic:								



Project No.	872	001.0			Client: PHELPS DODGE COPPER QUEEN BRANCH				
Well ID:		FRAN	100		Date:	02/06/2			
ADWR No.	500				Weather:	CLEAR			
Location:	3245 S	. Franto	Loop		Collected By:	APIMA	1		
	-6:302	7			WELL DATA				
Well Depth (1	t bis):	$\sim$ $\sim$ $\sim$	00/		Static Water Le	vel (ft bmp):	WA		
Casing Diam	eter (in):		6"		Date/Time:	02/0	6/2008		
Well Use:		OMES	TIC		Point of Measu		4000		
3 Casing Voi	umes: 5	59 X 3 = 1	77:25	= 2 min	GPS: UTM Elevation:	346882	8 12 R	0602851	
				FIELD	SAMPLING D				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
1128	25		7.48	21.3	1306	Mag	N	incus revenue)	
1131	N		7.49	20.1	1300	CLEAR	p	Reproductive P	
434	N		7.47	19.6	1301	N	N	Paragraphics	
					,	·			
10	TAL	DISC	HARG	S -	200	6.			
<b>.</b>									
				SAME	LE INFORMAT	ION			
Sam	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes	
FRAN	co	1136	PLASTIC	250		300.0	N		
Additional Co	omments:	UETOL	ACKOF	DIREC	TOUTLET	ABIR FR	OM THE HO	USE#3 WAS	
								THIS PROPERTY	
Apiece	of Rope	is block	King ho	le for a	v/measur	eneus-co	uld not rem	nove	
Water System	Schematic:	The second se						NA	
					PU	EDY L	ANE		
)				RANCO	208	Ho	USE#3		
			Ĩ	UMP HOU	USE .		House	= #3	



					namera ann ann ann an ann ann ann ann ann an			
Project No.	872	001.0		-	Client:	PHELPS DO	DGE COPPER	R QUEEN BRANCH
ell ID:	FULT:				Date:	2/27/08	3	
ADWR No.		12447			Weather:			
Location: (	694 E 1				Collected By:	Sunny KW *	MA	
	Bisbee I	Junction				·		
					WELL DATA			
Well Depth (f	t bls):	30	0		Static Water Lev	vel (ft bmp):	unable to n	reasure-port hole
Casing Diame	eter (in):	8	edanne annie merske konstruktura en servici was was was was was an en servici was an	otovani svojeni svojen	Date/Time:	2/27/08		reasure - port hole too tight
Well Use:	do	mestic.		242-44-0	Point of Measur	ement:	TO.C.	
3 Casing Vol	umes:	460 gal =	casing		GPS: [3	2R 0607+6	O X UTM 3	346 <i>90</i> 68
	×3:	: 1379			Elevation:	469	14	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
15:13	10anm		6.73	18.7	1813	none	none	
15:18	10gpm	60	6.76	20.6	1824	η.	И	
15: 23		110	6.78	21.3	1837	۸	ef	
15:28		160	6.80	21.8	1822	V.	и	
15:33		210	6.81	21.7	1918	n	и	
15:38		260	7.03	21.2.	1809	11	L (	
15:42		310	6.76	21.2	1816	14	L1	
15:45		340	6.76	21.1	1827	R	л	
4.								
		,		SAME	PLE INFORMAT	TON	1	
Samı	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
FULT	Z	15:45	plastic	250	1	300.0	N	filtered
			'					
Additional Co	omments:	2nd GPS	reading 1:	Z R 060	7151.	2006 WL	of 124' use	d for casing volume
		calcula	tim.	House is	still conn	ected to N	WC. Well	d for casing volume shilled in 2006-
			anima			some hum		aire
Water System	Schematic:				<del>J</del>			
							-	
					[0]	<b>)</b>	1	
		٨			Bay		f	
		1			3   1	6	1	
		IN					* \$	
							i	
						house		
						Nonse	ال	
No.								
		•	C	Bove	1.181	69	4 1	
<i>.</i> /				13070				



		ente de la companya d							
Project No.		87200	01.0/87	2002.2	Client:	PHELPS DODGE COPPER QUEEN BRANCH			
ell ID:	AM ET	<del>,50</del> 2			Date:	2/11	108		
ADWR No.		50252			Weather:	breeze	y, sunn	(4	
Location: 8	976 Bork	ler PD	BISBE	E	Collected By:	KW #	AP		
		•							
				<del></del>	WELL DATA				
Well Depth (ft	t bls):		90 Ht		Static Water Le		28.3		
Casing Diame	eter (in):		<i>, 4</i>		Date/Time:	2/11/08		1.58	
Well Use:		DOM	STIC		Point of Measur	rement:	TOC		
3 Casing Volu	ımes:	238 X	3 50	714	GPS:		3534/5 121		
	714	- 15 =	47.6	min	Elevation:	4597	14600	2nd reading	
	•		Γ	FIELL	SAMPLING D	ATA	I		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments	
15:13	15		7.46	18.1	620	Clear	none	few rust flakes	
15:16	N		7.47	19.9	599		86	few rust few white	
15: 22			7.52	20.2	602	c,	٩	flakes	
15: 27	N N		7.49	20.4	606	n	(1	few white flakes	
15: 32	r		7.47	20.3	599	10	**	very few white flakes	
15:37	~		7.46	20.2	604	и	l n	clear	
				<u> </u>					
ļ	The	717	716	HIPE			, c		
	/ / /	THE STATE OF THE S	1130	PAPE S		1600	500		
				SAME	LE INFORMAT	ION			
Samp	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes	
GALLA	rNT	15:40	plastic	125/250/	500 3	300.0	Y/N/N	Comments of the Comments of th	
Additional Co	mments:	C real	est of c	wner.	alter par	ameters	Stable	, took sample	
			J			A COLUMN DE CAMBON DE CAMB			
Water System S	chematic:	O WE	L					and a second and distributed in a change of a second second second second second second second second second se	
			HOUSE						
	89	(				Bid	NU		
	0 '		and the second s		T = 02	200	0		
		AMPONING	L	· Dos	JerfD	(A).	- way		
					\ /	1 00	who I	3	
					18	1		166	
					二十上			4E120N	
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					1/		Out - P	101	
· )						and the second s	Bisbee Je	T. A. C.	
7	HIN					na ann a chaireann ann ann ann ann ann ann ann ann ann	34944		
	W /*								



							CONTROL DESIGNATION AND ADVANCES OF THE PROPERTY OF THE PROPER	
^b roject No.	8720	02.2			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
ell ID:		EK 557			Date:	2-21-	06	magnessen vid til til til till gill som en grund still se til som kritisk still stil
ADWR No.		58557			Weather:	Clear		
		Purby	Lane SGØ3		Collected By:	Arrison	/ Thomps	
PROPERTY AND PROPERTY OF THE PERSON		-11			WELL DATA			
Well Depth (f	t bis):	300	D /		Static Water Lev	/el (ft bmp):	191.05	
Casing Diam		G"			Date/Time:	2-21	**************************************	.1.2 (
	Domes		- 4		Point of Measur	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		Zasing .
3 Casing Vol		400	<del>'''\                                  </del>		1	128607		M 3468958
o dading von	uiiioo.		<del></del>		Elevation:			M1.24.0XJ.22
				FIELD	SAMPLING D	ATA	s'amst	
		Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)		Color	Odor	Comments
1255	10	10	34.5	20,9	822	Clear	Nonx	Pump an at 1254
1300	10	60	6.70	20,0)	636	Clear	None	
4								
1305		райндагандаган башкайдаган арага арагандаган арагандаган арагандаган арагандаган арагандаган арагандаган арага						Pump Stopped
						AD COURT OF THE PROPERTY OF TH		B N B
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		Tes Silver de la récitation de la récita						
- Western Communication and Co		N Wire mine in with a responsible and a second						
				SAME	LE INFORMAT	ION		
C			Container		No. of	<b>Analysi</b> s		
Samp	DIE ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
Carner	- 557	1310	Plastic	125/250	2		HNO,/me	Filtered
()		1310	Plastin	250	)		None	UNFiller
Additional Co	omments:	Pump		Devator-	at Bo	s' Mechan		THE RESIDENCE OF THE PROPERTY OF THE PARTY O
								9 Para andre en
	•						antigen (f. 18 - 20 million) - 44 million (f. 18 million)	entretter i PAMinistri (III) de agas, mistros palma electros financias financias de cale el Microsopie e "diministrativa" de agas en el manda el ma
Water System S	Schematic:					The control of the second second of the second seco		
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				En	*		ari para para di manana mangani pangan kanana manana manana manana manana manana pangan pangan pangan pangan p	and the second and th
				(CILEEN)		EWA	**************************************	
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				A STATE OF THE PARTY OF THE PAR				
								abilitation v. e.
						- Granceson	ggengaakkonski (Miliophanoonski koeksenys jojinki kirkoki salamatuu e uu e u u e u e u	Non-market and the second seco
							had me a pa	
					jogillocquonamentohonerere	hadiosiaaa	House	M+4
				Constant of the Constant of th	a) (84)	gggggggggggggggggggggggggggggggggggggg	Laboratori V	
			NGLL	e participa de la composição de la compo	St Zwe	· · · · · · · · · · · · · · · · · · ·	and the state of the	
			NGLL HOUSE	gan al des alles alles à code considerate considerate des alles alles à code de la code		To Read the second		



PRINCIPAL PROPERTY AND	armen anne ann Shahandan den den ann ann an	The second secon						
Project No.	Xtà	001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Well ID:	GARN	ER 6 3	5		Date:	09/041	2018	
ADWR No.	55-59	37635	Rus c		Weather:	COUD	Y-WIM	DY
Location:	1027 V		Dy (2)	G.	Collected By:	APIMA		
	Bishe	0/AZ		Constitution		714		
					WELL DATA			
Well Depth (f	ft bls):	680			Static Water Lev	vel (ft bmp):	193.	20
Casing Diam		12'	7		4	0210412		
Well Use:		estic			Point of Measur			TOC
3 Casing Vol			8590	70mm	GPS: UTM:		1900	
730 min		10-713	0000	COGPIN	Elevation:	4616	- 10 13	
1.30.11	<u>F-16</u>			FIELD	SAMPLING D			
		Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Conductance (µScm)	Color	Odor	Comments
11:45	20	100	7.71	18-1	473	CLEHR	N	spen 6:1 at 1/40
11:50	N	005	7.68	21.0	474	p	N	
11:55	N	300	7.70	21.3	478	100	n	
12:00	//	400	7.67	21.3	476	1	N	
12:05	η	500	7.61	22.7	479	Ô	11	
	7 37	7	- MA	<b>—</b>				
1	UML	1210	CHI	KGE	-	500	6.	
				SAME	PLE INFORMAT		I	T
Same	pie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
GARNE	R635	1210	PLASTIC	125/250	1/1	300.0	Y/N	
GARNE	R635	1210	PLASTIC	500	er 1	300.0	W	
Additional Co	*	AVA	GU	v-4	7			
Water System S	scnematic:	*						
λ								
IT								
	,						*	
	>		THE STREET AND THE STREET STREET, STREET STREET, STREE			and an extension of the control of t		
	A.	and the same of th			Die	275/		
	3				PUL	2DT		
	The last			The state of the s	medican en en en esta se en	equation did not the rest of colored and colored to person of the rest of the		Accounts and appropriate of the contract of th
							) [	House
	1 3					K		170030
	NACO HIWA					1 - 1 6		. \////
2						GREEN & TANKS	2	
٠,		•				TANKS	\(\frac{1}{1}\)	WELL
1						-	FENCE	
1								1



roject No.	277.00	2.2			Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
Well ID:	Caller	Cass:	546		Date:	2/21	/ OR	
ADWR No	1 19	251C			Weather:	Clear		
Location:	halloping C Woodland	was Pra	2000 in Land	, 4	Collected By:			I recon / Thomason
	word law	Flowlet C	. 5			- cowers - Pro- State (No. 2011) and the	/ / / / / / / / / / / / / / / / / / /	
					WELL DATA			
Well Depth (	•	<u> </u>						. Clastina at 153's
Casing Diam	-	132		en mirror garagements are a final train	Date/Time:	7.21-		
Well Use:		Tracello			Point of Measur		100 06 CA	500 K
3 Casing Vo	iumes:	104	A TA (Thomas		GPS: Elevation:	128 0060	DAS OTH	
				FIELD	SAMPLING D	ATA	THE CHAIR	
		Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Conductance (µScm)	Color	. Odor	Comments
ter et allanda policio severel Coperio de 1999		**************************************		<u> </u>				
							Large Contraction of the Contrac	
***************************************		M. Marie Parameter - A Processor - No. of Parameter - Processor - No. of Parameter - Param						
							and the same of th	
);		· · · · · · · · · · · · · · · · · · ·						
)						a a		
				SAM	PLEINFORMA	FION		
Sam	npie iD	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
Britain Her Britain Ar Dick The								
Additional C	Comments:	Wall 1	s easin	ဂူဂဗ် သ	A C p	410 1 10 mm	Done ha	been discon
	*	+ = ==	Why:	4 .				В distribution of the state
Water System	Schematic		1					
						· ·		e de la companya de l
					M	ARN ARN		
					0	3112-15A	Elhs	
						Landania del Constitució de la	ENTRANCI	<del></del>
						Pool		
								and the state of t
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						WZ N	1 £ 2-1-	مُد
		Avis	some S	tract		OZ W	I the harden	-A cò
	en valence de la compansa de la comp	Aris	sore S	4004		WZ 1/A	1 Ka Ludiana	مُمْ
		Axia	sore S	tract		W.Z. W	162	<u>rô</u>
		Aris	some S	tract		8 PZ 1/A	I the harmon	مُثَمَّ الْمُثَاثِينَ الْمُثَلِّينَ الْمُثَاثِينَ الْمُثَاثِينَ الْمُثَاثِينَ الْمُثَاتِينَ الْمُثَاثِينَ الْمُثَاثِينَ الْمُثَاثِ الْمُثَاثِينَ الْمُثَاتِينَ الْمُثَاثِينَ الْمُثَالِينَا الْمُثَاثِينَ الْمُثَاثِينَا الْمُثَالِينَا الْمُثَالِينَا الْمُثَاثِينَ الْمُثَالِينَا الْمُثَالِينَا الْمُثَالِينَالِينَا الْمُثَالِينَا الْمُلِينَا الْمُثَالِينَا الْمُثَالِينَا الْمُنْعِلِينَا الْمُثَالِين
		Aris	some S	tract		₩Z _W	) & Linn	



roject No.	The war The The	0022			Client:	PHELPS DOD	GE COPPE	R QUEEN BRANCH
well ID:		6600°	5E 54°	1	Date:	2-21-E	) <b></b>	
ADWR No.	55-467	3544		ענונו	Weather:	Closur 1	NI AV	
Location: 3	poe elle	, No. 671			Collected By:	Not Called		issan Ita amoran
	)-lawer 13	1, Blobe.	42 856	O3				
					WELL DATA			
Well Depth (f	t bisi:	ලිවට		and the second	Static Water Lev			pastral - Alo Sounda Au
Casing Diame	eter (in):	50			Date/Time:			
Well Use:		alay .			Point of Measur			
3 Casing Volu	umes:	Wot S	Sarglid		-	12806063		4676 23
					Elevation:		4/ 1mol	
					SAMPLING D	A.I.A.		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	Hq	Temp (°C)	1	Color	Odor	Comments
***								
								The state of the s
	-							
		AND THE RESERVE OF THE PERSON						
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<b>\</b>								
/ ): <del></del>								
				SAM	PLE INFORMAT	rion:		
Sam	pie ID	: Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
					-			
		7		7	1			
Additional C	omments:							oce continue son
			13 Degre	di vitare - NAMA A R VITARE VITARE	in the Control of		The state of the	as bound on the
Water System	Scnematic:	uma.	LA HASA	Lagret mout	The second of th	53)(46)	Same and a Same of the same and	
The state of the s								
NAMES OF THE PARTY				_	54K1			
			G	6005	( )			50.
Regg/reliant					18.	Indian		
				(A)	Will			755
						· · · · · · · · · · · · · · · · · · ·		
						MAT	Lindans	
The second of th			Lawrence Control	2001 -			uat ·	7.2
and a grand and a				• •	<b>4</b> 6	GOOSE SH	6	0.0
			AVIZO	na S	Lock	*A.		
	-	erry Equation (Effects on election), and evolution follows	A I I I	organ ppggan optavorent navarrentent standan	Toppe 1		ANCY COMPRESSED THE PARTY COMPANY OF THE PARTY COMP	Action of the Control
1								
The state of the s								
	<b></b>	um e diginale di prima de milita y la um esta del distribui	Arizon	<u>na S</u>	Lak			



Project No.		070	000 (	)	Client:	DUEL DO DOL	DCE CODDE	R QUEEN BRANCH
vell ID:	annentranscription de la company de la compa	<u> </u>	002.2	<u> </u>	Date:	03/04/09	**************************************	N QUEEN BRANCH
ADWR No.	EC - E		2		Weather:			**************************************
T .			L *		Collected By:	MA + K	() ()	
Location:	) -25 - L	4-34 bt	> D		Collected by.	IVIA 7 K	W	
					WELL DATA			
Well Depth (ft	bls):	825	442544440000		Static Water Le	vel (ft bmp):		500' bmp
Casing Diame	eter (in):	4"			Date/Time:	03/04/08	11:03	7500
Well Use:		ponitorin	q		Point of Measu		T.O.	
3 Casing Volս	ımes:	93 gal	3 = 2	79	GPS:			3473747
		0			Elevation:		146	
	T	T		FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
11:20	8	8	6.71	20.1	457	clear	none	few fine black seds
			8.20					
11:27	8	64	7.72	24.4	201	n	ar 4	the time tog
11:32	и	96	7.60	25.2	199	u	N	
11:39	il	152	7.36	25.7	368	\$1	11	very fau fine flecks (black)
11:45	u	200	7.38	25.9	400	t t	10	p n n n n
11:51	£ ~	248	7 43	25.7	413	slightly brown	Slight	g be no no M
11:55	Starting	to loose f	low dur	m to o	ot 3 gpm			
***************************************		520						
				SAMF	LE INFORMAT	ION		
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
GL-	3	11:55	dastic	125 250 250	3	300.0	y/N/N	
			,					
Additional Co	mments:	Our Sou	ndel is c	nly 50	0' - WL=	7500'	Screen's -	790-870 acc.
		to well a				WL = 68;		
	k				The one sec	-33 bca		
Water System S	chematic:							
								,



Location: いな Well Depth (f Casing Diame	55-6 25 W. Purdy t bls): eter (in): Domesr	250 6			Weather: Collected By: WELL DATA Static Water Lev Date/Time: Point of Measur	7-21-08/11:45 rement: TOC 12R 0602216 UTM 3468913 4588				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
Samı	ple ID	Time	Container Type	SAMF Volume	No. of Containers	Analysis Method	Preservative	Notes		
Additional Co	•	This w	ell is u	of being	g used			1) 1		
A C O Huy	Purdy			Hora	)ne '1 5ef					



Project No. ell ID: ADWR No. Location: . Well Depth (f Casing Diame Well Use: 3 Casing Vol	t bls):  eter (in):  Domestic	R RAN 0695 rdy Lane 750	Bisbee, M		WELL DATA Static Water Le Date/Time: Point of Measur	2-71-08 $C = 100$ $MA = 100$ $C =$	T 183.9 1:35 TOC 2449 WT	R QUEEN BRANCH  RO  RO  RO  RO  RO  RO  RO  RO  RO  R
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
_			Container	SAMF	LE INFORMAT	TON Analysis		
Samı	ole ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
Additional Co	omments:	This w	ell is n	o+ in c	use			
Water System S  A  C  O  Huy	Schematic:	Lung				How se	Horse Tankling	1 ^N
						Bar.		



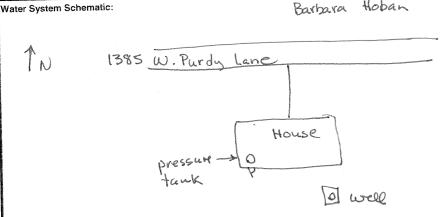
Project No.	8	72000			Client:	PHĘLPS DO	GE COPPER	QUEEN BRANCH
ell ID:	GRE	56 (F	ormer J	enny)	Date:	3/20/08		
ADWR No.	570	JG (F W. Mul	berry La	ne	Weather:	clear		
Location:	5-6308	552	,		Collected By:	mA		
	,0				WELL DATA			
Well Depth (f	t bls):	126'			Static Water Lev	vel (ft bmp):	Dry	
Casing Diam		811			Date/Time:	3/20/08/	440	
Well Use:	TNACT	NE DOW	LELIC		Point of Measur	ement:	TOC	
3 Casing Vol	umes:	WA			GPS:	12R 06068	70 346921	16
		3			Elevation:	464	8	
	1			FIELD	SAMPLING DA	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
						<u> </u>		And the second s
·								
				SAM	PLE INFORMAT	TION		
Com	unio ID	Times	Container	Volume	No. of	Analysis	Preservative	Notes
Sain	ple ID	Time	Type	Volume	Containers	Method		
			4					
Additional C	comments:	This wel	I has no	pump q	and is Dry			
Water System	Schematic:	A - MOCALITY NEWS THE PARTY OF						A A
water System	Schematic.	we	N					n/1\
		W. (X						,0 1
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	STEA (							
	<b>5</b> 1	House	, ]					
"	L	- vous			1	A	1	
		1			/	Nulberry	Lane	Simple According Section 1999
	and the second s			A CONTRACTOR OF THE PARTY OF TH				
	*				,	-8		
					,	actu		
2		Border	B.0			15		
	~	poruer	101			***************************************	one and the second seco	The Control of the Co



parameter examination			the same when the same same same same same same same sam					
Project No.		<u> 200000</u>		The National Assessment Company of the Company of t	Client:			R QUEEN BRANCH
Nell ID:	HEC				Date:		0-08	
ADWR No.		2078		mate in the transmission of the second	Weather:	CLE	プに	
Location:	240	Sp. Sy	nset 2	T.	Collected By:	MA		
				<u> </u>	WELL DATA			
Well Depth (	ft bis):	313			Static Water Le	vel (ft bmp):	0850000	1000 @ 2321 bloc
Casing Diam		5"	•		4	3/20/08	1800	
1	NACTIV	e do	MPSTI	<u></u>	Point of Measu		TOC	
3 Casing Vol	***************************************	N	A		GPS:	60205		471115
			Δ	•••••••••••••••••••••••••••••••••••••••	Elevation: 4			
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
				CANAC	PLE INFORMAT	FIGN		
			Container	JANIF		Υ		
Sam	ple ID	Time	Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
<u></u>	***************************************							
And the second state of the second								
Additional C	omments:	Well	TOU	OPER	ATIONA!	FUR YE	VDC NXC	unaw 6 to
	V	DUNG	$x_{\overline{b}}: r_{\overline{b}}$	LAROL	D HECL	<u> </u>		
			Northwest Assistant County County County County					
Water System	Schematic:					redui-pa		
toary							404-5	<b>e</b>
15AYK								
'SAYR	L	/						
944		/.3						
Paragramatic state of the state		33			C	GR St.		Series II.
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					HOUSE		Ň	
The control of the co			11	je4,	<i>1</i>		Surra	
	/		V	1	<b>6</b> —		Š	
							7	
					5 car	. Horg	÷	
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	Groundwale	: Samping						
Project No.	8720	01.0			Client:		GE COPPER	QUEEN BRANCH
ell ID:	HOB				Date:	2/27/08		
ADWR No.	8052	lgo	8052	90	Weather:	sunny, b	reezy	
•		-			Collected By:	KW + M	Α	
Locations	585 W.	Purdy 1	ane.					
					WELL DATA		163.0	
Well Depth (ft	bls):		316		Static Water Lev	1 1	THE RESERVE OF THE PERSON OF T	
Casing Diame	ter (in):	(	3		_	2/27/08	11:09	
Well Use:	- (	lomestic			Point of Measure		T.O.C.	6/0170/
3 Casing Volu	mes:	225gal x	3=67	5 gal_	GPS:	WIM 3468		12R 0601706
45 mi	^	J			Elevation:	4588		
				FIELL	SAMPLING DA	ATA	T	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
11:26	15	45	7.03	19.7	1317	Clear	none	
11:31	i	120	7,00	21.4	1304	11	t l	
11:36		79.5	6.99	21.7	1266	lt.	(1	
11:41		220	7.03	21.5	1283	И	L(	agentica par del sente una que en esta como de como en esta por por superior de esta de esta en esta en esta d
11:46		345	6.98	21.9	1335	11	N	
11.51		420	7,00	21,9	1376		4.	
11:56		495	6.92	22.2	1377	4.0		
12:01		570	6.94	22.1	1369		V)	
12:06		645	6.93	22.2		U-	<i>5</i> 1	
12:11		720	6.93	22,1	PLE INFORMA	TION		A CONTRACT OF THE PARTY OF THE
Sam	pie ID	Time	Container Type	1	No. of Containers	Analysis Method	Preservative	Notes
HOB	AN	12115	plastic	250	l	300.0	N	filtered
Additional C	comments:							The state of the s
Water System	Schematic:			Bar	bara Hobai			region of the control
ITN	139	SS W. Pu	rdy Lan	Silver	KEENNEETIVÄSIKSEETIVOONIN NINNEETIVÄSSEETIVOONIN NEETIVOOVITTOOVITTOONIN SOOSIA 4-VANJESKASSEETI	on considered and considered and the		





Inroject No.	873	<u> </u>						QUEEN BRANCH
: D) الد ا		JARD			Date:	3-4-0		
ADWR No.		Record			Weather:	Sunny MH/	t cool	
Location: 35	269 5 A	Luca Man	,		Collected By:	- VNVT/	<u> </u>	
	<u> </u>	Jaco 1700			WELL DATA			
Well Depth (ft	bis):	est Zuc	o' per c	wals	Static Water Lev	rei (ft bmp):	150.10	
Casing Diame	· · · · · · · · · · · · · · · · · · ·	7,00	, , , , , , , , , , , , , , , , , , ,		Date/Time:		1-08	
Well Use:		restic			Point of Measur		TOC	
3 Casing Volu		73.3 ×	3 = 22	Ð	GPS:	601291 N	1 3468	769E
Jo Castrig 7 ore					Elevation:		459	5
				FIELD	SAMPLING DA	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
17:52	10	16	6.96	20.0	1258	Cleur	No	
17:54	1.1	30	7.03	7.05	1199	1.	**	
17:58	( *	76	7.04	20.6	1767		10	N. C.
16:01	11	100	7,06	20.5	1288	1.	1-	
18:04	1.	130	7,06	50.4	1580	1.	11	
<u> </u>								
				SAMI	L PLE INFORMAT	ION		
	oie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
How	ARD	14:10	Plastic	250	1	300.0	N	
110								
Additional Ca	omments:	Receive	ing box	tled u	mtel for	drinkin	y .Well	is in regular
Water System	Schematic:							NT
	THE REAL PROPERTY OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL			Pur	dy Lune			nico a companya de la companya de mandamente de la companya de la
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		1		2				
		AND THE PERSON NAMED IN COLUMN	326	69				
solic Available and								
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				6	louse			
		3	+					
· •		7.						
1		Vaco Huy						
		3	1					
i								



ell ID:	016	2001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
OII ID:	JALY				Date:	2/12/0	8	
ADWR No.	55 - 20	09737			Weather:	sunny		
Location: 3	3273 Na	aco Hwe	<del>j</del>		Collected By:	KW - Al	2	
					WELL DATA			
Well Depth (1	it bis):	24	15		Static Water Lev	vel (ft bmp):	DO W.L. d	ne to obstruction (
Casing Diam	eter (in):	8			Date/Time:	2/12/08	10:50	45'
Well Use: ເ	inused unc	teu land;	to be d.u	supply	Point of Measur	ement:	T.6.C	
3 Casing Vol	,			., 4	GPS:	UTM 3469	8699 1:	LR 0601449
					Elevation:	4527		
				FIELD	SAMPLING D	ATA	T	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
		·						
4								
				SAMI	PLE INFORMAT	T	T	
							1	1 1
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
Sam	pie ID	Time	l .	Volume	i .		Preservative	Notes
			Туре		Containers	Method		
Sam Additional C		Well is	Type	develo	Containers  and land	Method  for Sale	by JAL	yn Associates.
		Well is	Type  ON un	develo	and land	Method  for Sale		yn Associates.
	omments:	Well is	Type	develo	Containers  and land	Method  for Sale	by JAL	yn Associates.



	070							
Project No.	876	001.0		- 0	Client:			R QUEEN BRANCH
Well ID:	M 6	10919	Y KEE	FER	Date:	02106/3	200X	ayan arang arang ang ang ang ang ang ang ang ang ang
ADWR No.	20	9744			Weather:	CLEAR		
Location:	Kr.	An			Collected By:	AP/M	<i>H</i>	
	Noc	0,116		retre and probable to a pas	WELL DATA			
	**************************************		7		WELL DATA		150 =	
Well Depth (f		<u>25</u>			Static Water Le		134.67	
Casing Diame	eter (in):	<del></del>	NA	·	š.	02/06/0		
Well Use:		Homes;			Point of Measur		<u> 700</u>	
3 Casing Vol	umes:	PURGET	BILITY	**************************************			R 0599	188
		STATE	BILITY		Elevation:	456	}	
	<del> </del>			FIELD	SAMPLING D	ATA	<del></del>	T
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
0846	14	14	6.75	12.5	396	Clear	None	openbil at 845
0450	(/	70	7,79	17.2	354	N	M	And the state of t
0452	(/		7.53	1901	372	N	N	
0855	N		7.71	16.9	367	N	pt	
0858	N		7.70	190	378	A	œ	
			•					
		00					ar	
FA	TA-	44	+ DI	SCHI	1RG		XX 6.	
10	115	SAE	C 1000		1/ 30			
						(	236	
				SAMI	PLE INFORMAT		T	
Samp		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
KEEF	<u>er</u>	0900	Mustic	550	(	300.0	None	
Additional Co	mments:							
		This is	s the on	ly well	on this p	wperty		*
Water System S	Schematic:							NA
D-complete			<b>O</b> ttopplers/envi	Delandrick Confession of States of States of the States of States	and development and the second se			4
Commercial				ZEPET	DA			'
of a subsequent of the subsequ					•			
			Juggeotenine	CONTROL AND PROPERTY OF THE PR	Challennes per a historie de simulación es a persona con describencia de la consta de en cultura de la colonida de la consta de en consta de en consta de en consta de encolonida de la consta de encolonida de encolo	electronisticanium acamateira a assuração que aproprio por esta de la como contrativamente.	ALGO DOCTOTO DO PROPERSO DE LOS PARAMENTOS DE LA COMPANSIONA DEL COMPANSIONA DEL COMPANSIONA DE LA COMPANSIONA DEL COMPANSIONA DEL COMPANSIONA DE LA COMPANSIONA DEL COMPANSIO	
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				And the second second		_	WELL \	5
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000 CT - 11 CT				H	IUSE			QUETEL
Control of the Contro				110	<del></del>			
*						l	and the same of th	T P P P P P P P P P P P P P P P P P P P
BEGINE .				Annual Polymonton (Party	er gantige promisency accounts the develop the Medicip program principles of a a proper ground security relative	medit#	NAME OF THE PARTY	
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DESCRIPTION OF THE PARTY OF THE							'	,
To the same of the								



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Project No.		<u> </u>	and the contraction of the contr		Client:		Company of the Compan	R QUEEN BRANCH
∦ell ID: I		ONNELL	265	<u> Vrýma</u>		2/23/8	98	
ADWR No.	<u> </u>				Weather:	Cloudy		
Location:	1463 Pyr	idy Lane Az 856	⊃?		Collected By:	Ayruson	1 thomps	>\alpha
					WELL DATA			
Well Depth	(ft bis):	216			Static Water Le	vel (ft bmp):	156.15	
Casing Dian	neter (in):	G''			Date/Time:	2-20-	08/13:1	\$
Well Use:	Done	SE' (110	F Cranny	in use)	Point of Measur	ement:		Casing
3 Casing Vo	lumes:	264 c	/		GPS:	12R . 060	-	M 3468844
		6			Elevation:		004 AMEL	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1330	10	10	7.21	16.2	1424	Clear	Lond	ON 06 1329
1333	10	40	3. F	19,7	1437	1		
1337	10	20	7.19	21,1	1435			
1343	19	140	7.3.1	21,1	1435	4		
	***							
		**************************************						
				SAME	LE INFORMAT	ION		
Sam	iple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
MCCONN	CIC ZOS	1350	Plastic	250		300.0	Done	Elferd
Additional C	omments:							
							The state of the s	and the second control of the party of the second section of the second section and the second section of the section of the second section of the sec
	ONNACTOR STATE OF ST							
Water System	Schematic:							$\Lambda$
	-							A di
	P	undy lav	N 0					L-anith-blue
	3	n announcement from the construction of		METERA NORTH ANNOUNCE STREET AND ANNOUNCE STREET, AND ANNOUNCE STREET, AND ANNOUNCE STREET, AND ANNOUNCE STREET,	***************************************			Market and the second s
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	3							
	Naco Fig.		THE STATE OF THE S					4 1.2 2 4 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0
			Disconnection of the Control of the					Brodensteller
	\$							
		**	Sales Sa					
		Special Control of Con	HOUSE	⊗-	S - MEN			



Groundwater Sampling Form

	and the second second second second							
Project No.	57	2000	<u> </u>		Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
Well ID:			86 K	Jussel	Date:	3/20/08		
ADWR No.		590386		7	Weather:	clear	-	
Location:	園り	URDIL	ME/B	ubee	Collected By:	mA		
	The same of the sa		· (`	10 ( ·	WELL DATA			Married Co. S. Marrie
Well Depth (f	***	MA	DATA 3	*	The second secon			
Casing Diam			12.1.1.1	XI'	Static Water Le	_ 1 1	-NA	
Well Use:	eter (III):	1000 to 000	ESTIC -		Date/Time:		435	
3 Casing Vol		1)0100	<u>V-</u>	Teneral State of the State of t	Point of Measur		1/// 2.1/	dais
S Casing von	umes:	<u>N</u>	<u> </u>	· · · · · · · · · · · · · · · · · · ·	GPS: Elevation:	12R 0601		58917
				FIELD	SAMPLING D	460 ATA	1	
	Discharge	Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	РH	Temp (°C)	Conductance (µScm)	Color	Odor	Comments
			**************************************					
			_	SAMP	LE INFORMAT		1	
Samo	ie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
			14 D A.					
Additional Co	mments:	Thes we	M is dis		^ <del></del>			
	X	NON	DWR D	USICE S	R INSTA	CUMON !	SEBOUL	
Water System S	chematic:							
Traisi Gyoldiii G	1							- COCCH
	1 0	l a						3.42 C
	Pu	rdy Lan	-e					· ·
			Name of Street o					
Nance H								District Control of the Control of t
, ~6	·					7		e _O n-o-sugger
4		•					ISL	ed
X	h				1 12	Louse		and the second
					1 1	ouse		C-C-P-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-M-
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Project No.	87	2001.0			Client:	PHELPS DO	DGE COPPER	PER QUEEN BRANCH			
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	Bisbee	(SJ	area)	!				
					WELL DATA	19 <b>58</b>		
Well Depth (ft	bls):	351			Static Water Lev	vel (ft bmp):	288.30	
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Groundwater Sampling Form

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Groundwater Sampling Form

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Water System Schematic:



Project No.	8720	32.2			Client:	PHELPS DOI	DGE COPPE	R QUEEN BRANCH
ell ID:	PALM	ER			Date:	2-14-08		
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					WELL DATA			
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Casing Diam	eter (in):	<u> </u>		***************************************		2-14-08	13:20	
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J Gaoing		18-3			Elevation:	4694	ICIL -	802701
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
9:01		(gallons)	673	70.5	1226	Clear	None	Open bib at 9:00
9:04	1gpm	16	6.77	70.6	1235	10	1/01/2	Pump is on
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			,	SAMP	LE INFORMAT		1	·
Samp		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
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Project No.	829.	01.0			Client:	DHEI DE DO	DGE COPPE	R QUEEN BRANCH
ell ID:		RRA			Date:	02/11/d		V WULEN DRANCH
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
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01020	M. A		7.09	24.1	1063	N	r	
01070	m /		7.10	22.1	1063	~	1	
01:12 00	N		7.12	21.6	1064	N	N	
01:17 PM	1		7.11	ムトナ	1062	N	~	
01:23 pm	r		7.08	21.8	1067	11	10	
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Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
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Additional Co	mments:							US TO THS
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Samp	ole ID	Time	Type	Volume	Containers	Method	Preservative	Notes
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		Name of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control o						
Additional Co	декемминальны <u>к на кам</u> инальнальна его							
Water System S	criematic:							
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		f er		W su	> FBNC			De



#### Groundwater Sampling Form

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Project No.	872	001.0			Client:	PHELPS DC	DGE COPPE	R QUEEN BRANCH
ell ID:	<u>RA</u>	У			Date:	15 Feb	08	
ADWR No.	8	03772			Weather:	RAIN		
Location: (		MULB		N.	Collected By:	KW #	AP	
					WELL DATA			
Well Depth (ft	bls):	100			Static Water Lev	vel (ft bmp):	40.8	5
Casing Diame	eter (in):	8 '			Date/Time:	15 Feb C	<u>ාප</u>	9:48
Well Use:	_don	restic			Point of Measur	ement:	TOC	
3 Casing Volս	ımes:	154 x :	3 = 46	2	GPS:	47M 34692		
					Elevation:	465		-
				FIELD	SAMPLING D	<b>ATA</b>		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
10:00	10	0	7.28	14.3	1587	clear	none	v. few flakes of n
10:04	.1	40	7.30	18.7	1609	b?	N	и
10:10	**	100	7.31	17.9	1586	8 C	2 (	Clean
10:14	6.1	140	7.33	19.1	1558	n	n	ч
10:19	41	190	7.33	18.8	1556	* *	3.4	2.8
10:24	e p	240	7.30	19.1	1540	n	N	few rusty flakes
				SAMF	LE INFORMAT	ION		
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
RAY		10:30	plastic	250		300.0	NO	
Additional Co	omments:							
Water System S	Schematic:	n in Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and Activities and A	MENONAL PROPERTY AND AND AND AND AND AND AND AND AND AND		-Zatury	1		entition of the section of the secti
						648	ell + tank	to.



Project No.	872	001.0			Client:	PHELPS DOD	GE COPPER	R QUEEN BRANCH
ell ID:	ROD		2		Date:	2-14-08		
ADWR No.					Weather:	very win	dy, su	nny
Location:	3773	S. Rodr	iguez 1	Ave	Collected By:	AP + K	(N)	
					WELL DATA			
Well Depth (	ft bls):	appoox.	200		Static Water Lev	el (ft bmp):	dry	
		un Kr	Mulh			2-14-08		
Well Use:	eter (in):	456	1000	One property of the second second second second second second second second second second second second second	Point of Measur		TOC	enanda alka 146 99 30) yana kunanda dika makana kunanda kunanda kunanda kunanda dika da da da da da da da da d
3 Casing Vol	umes:				GPS: U	TM 34674	147 128	0599965
	•				Elevation:	459	3	
				FIELD	SAMPLING DA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
Sam	aple ID	Time	Container	SAMI	PLE INFORMAT No. of	Analysis	Preservative	Notes
		71110	Type		Containers	Method		
Additional C	comments:	Well no l	onger in	use.	Dry; feels	about 200 ed 250	yrs ago	ADWR has no
Water System	Schematic:			Sp Sproof	c.\r			



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Project No.		201.0			Client:			R QUEEN BRANCH
ell ID:		<u>GERS</u>	803		Date:	2-7-08	?	
ADWR No.		803			Weather:	Clear		
Location:	Mule Da	eer Rd			Collected By:	AP/M	A	
		4			WELL DATA			
Weil Depth (f	t bis):	300			Static Water Lev	vei (ft bmp):	129.83	5
Casing Diam	eter (in):	6"			Date/Time:	2.7	-08	
Well Use:		bmestic			Point of Measur		TUC	
3 Casing Vol		EXOLS	>= 750		GPS:	3468416	SIZR	600980
	•				Elevation:		4566	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1358	10		7.34	17.4	451	Clear	No	
1400	11		7.41	17.1	448	11	1,	
1403	1.		7.52	17.9	443	`'/	,,	
1408	11	-	7.58	19.0	443	11	11	
1413	14	**************************************	7,53	19.5	449	1.	11	
1418	11		7.52	19.8	455	1,	11	
								*.
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			CASA		is where	- 10	0941	
<u> </u>			0,01		3-10		0	
				SAME	PLE INFORMAT			
Samo		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
KOGEK	25 803	14:20	Plastic	250m	1	300.0	N	
		namen management and the second						
Additional Co	mments:	Could	not pu	ge for	Sull 75	min as	yle yard	is Flooding
				<i>-</i>			•	
Name and part of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of								
Water System S	Herse	Dunuse Fee		st.			\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	N 1
Andrews							1	A.
			Islan	4) _	Mu	le Deer 16		n
	,	/						
)	(	vell Sam	ded					
	D	vell Samp Twell House	, ,					



Project No.	8720	00			Client:	FMI Sierrita	Operations	
Phase No.	7.2				Date:	3-20-0	8	MANAGEMENT AND AND AND AND AND AND AND AND AND AND
Well ID:	ROGE	RS 80	3		Weather:	Clear		
ADWR No.	55-64	11803			Collected By:	MA		
		*						
				WEL	L DATA		en un service de la company	
Well Depth (ft bl	s):	6"			Time:	1 7:30	)	
Casing Diameter								
Static Water Lev	el (ft bmp):	129.85'	(2-7-08)		GPS:	UTM 346	8416 12RC	0600980
1 Casing Volume	e (gals):	14.6			Elevation:	45	566	
3 Casing Volume	es (gals):	44.0						
	Ι			FIELD SAN	IPLING DATA	<b>1</b>		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
0736	5	5	7.08	13.6	600	None	Nore	Prenbibe 735
0738	5	45	7.31	16.6	590			
0740	5	7.5	7.39	18.4	601			
0742	5	105	7.44	18.5	601			
0744	3	135	7.45	18.6	607	\	1	
							W433-1-031-72	
							#: HUROSEPH-Wilespinite/Periode/Periode/	
		ļ		***************************************				
							<b>0.1012</b>	
				SAMPLE IN	NFORMATION			
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
Rogers	803	0745	Plastic	125/ 250ml	2	EPA 300.0	NO3/Non	e Filtered
ROGET	75803	0745	Plastic	てらり <del>500</del> ml	1	EPA 300.0	None	Unfiltered
Additional Comm	nents:			10		f e		
	K	ESAMO	LE FOR	2 Fu	UL SUM			
		7			**************************************			77.701.001.001.001.001.001

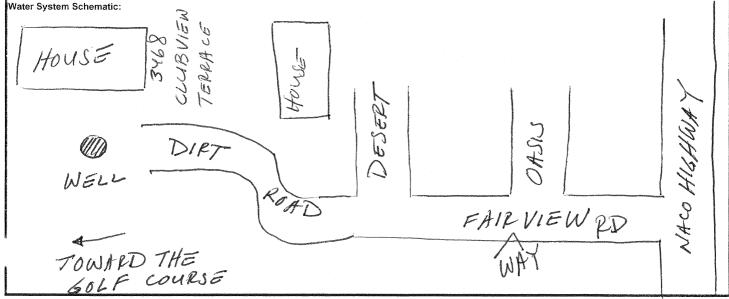


Project No.	P7 1				Client:	PHELPS DOI	DGE COPPER C	UEEN BRANCH		
ell ID:	ROGE	RS E	NATION OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE					CHER DIVISOR		
DWR No	55-3	16019			Weather:	02/04/2	OO O			
ocation:	Dominary	ez /D.	.ecc C4	ζ	Collected By:	WINDY- CLEAR. ALI/MARKA				
ocation. g	Domingu Nuco	AS	102 21	•	Collected By.	ALI/MI	BLKO			
	18-100/	- 1, -			WELL DATA					
Vell Depth (ft	t bls):	585			Static Water Lev	rel (ft bmp):	NM LOBST	PUCTIONS		
Casing Diame		8"								
Vell Use:	Domesti	<u> </u>			IPoint of Measur	ement:	8 / 9:00	7730		
Casing Volu		365x3=1	096	-	GPS: 🏸	11TM . 20	67634 12; ft) 12	0600464		
	2 73 mil	Durge			Elevation:	46076	St 1 12	<u> </u>		
				FIELD	SAMPLING D	ATA	14/			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
0915	15		7.30	20.2	434	CLEHR	~	de la minima de la como de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita de la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comita del la comi		
0918	N		2.35	19.9	432	11	1			
0925	N		7.33	20.4	436	7	N			
0930	N		7.40	20.9	436	N	~			
0935	1		7.40	21.0	435	N	~			
		gióna.								
$-\mathcal{T}$	BTAI	$=Dt_{i}$	SCH	4126	E	33	86			
7		10	-				_ /			
445				SAMP	LE INFORMAT	ION				
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes		
ROGER	RSE	0950	Austic	750	-	300.0	None			
dditional Co	omments:	Pump .	turned o	net 9	117					
		No of	er wel	ls on	broperty.					
	ON AND AND THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVIC				. ,					
/ater System S	Schematic:									
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Project No. X+L Well ID: RU1				lau.	DUEL DO DO	10F 000FF	OUTTAL DE ANOLI		
Well in:	-2001.0			Client:			QUEEN BRANCH		
IADIND No.	<u> </u>			Date:	02/05/2	008			
ADWR No. 53 Location: S. Barne	<del></del>			Weather:	-CLEAK				
Location: S. Barne	.TT Kd c	San Jose		Collected By:	M/H				
				WELL DATA					
Well Depth (ft bis):	3/2			Static Water Le	vel (ft bmp):	293.29			
Casing Diameter (in):	6			Date/Time:	0310516				
	restic	ECONCESSA SERVICE CONTRACTOR AND AND AND AND AND AND AND AND AND AND		Point of Measur		TOC	t i Mariana a santa ang kanasa ang ang ang ang ang ang ang ang ang an		
3 Casing Volumes:	FA .	27.9x3 = °	846	1 .	3471419		0602852		
@ 15 you =	, ,	ungf	illennenderseum nie flesseinneum noch	Elevation:	4749				
4			FIELD	SAMPLING D	ATA				
Time Discharge Rate (gpm)	Discharge	рН	Temp (°C)	Specific Conductance	Color	Odor	Comments		
	(gallons)	5 M	11 a	(µScm)	61640				
0830 15		7.58	18.8	4.53	CLEAR	~			
0350		1.30	19.10	996					
0855 N		7.22	13.2	UUS					
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1009	N	45	7.49	21.2	510		11	
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1015	N	135	7.52	21.7	507	N		
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1028	/	330	7.52	21.5	506	1	1	
				SAMF	LE INFORMAT	ION		
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Project No.	872	001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
lell ID:	SW	AN			Date:	2-13-0	) <del>(</del> 3	
ADWR No.	No	Record			Weather:	SUMNY	i windy	
ocation:	2601	SUBN ee, Az	Rd		Collected By:	API	KW /	
	13150	<u>ee, 112</u>			WELL DATA			
Vell Depth (ft	his):	98			Static Water Lev	(el (ft bms):	26.50	
Casing Diame		4	······································		Date/Time:	5-13.		7:45
Vell Use:		mestic		**************************************	Point of Measur		700	<i>c.</i> 73
Casing Volu			3 = 14/		•		70649 12	R 607378
Casing Voic	mies.	1//	/ steer		Elevation:	46	94	1 60/3/6
				FIELD	SAMPLING DA		17	
		Total			Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	Conductance (µScm)	Color	Odor	Comments
15:52	10		7.24	19.5	455	Clear	No	Few orn sed Flakes
13:01	17		7.29	50.5	458	1.	1,	very few orn sed Flak
13:04	1,		7.26	30.6	458	1.	1.	clear, no sediment
13:07	1 /		7.26	70.2	459	1 •	1.	11
13:11	1,		7.28	20.7	467	1.	٠,	11
				SAMP	LE INFORMAT	ION		
Samp	ie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
SWA	N	13:15	Plastic	isfued soc	3	300.0	y/N/N	
Additional Co	mments:	well di	epth est	· bused	on owne	r. 4 ho	uses usi	ng this well,
Vater System S	chematic:		Log Cabin	] 338	/			



Project No.	872	202.2		***************************************	Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH	
Vell ID:	TM-2	_			Date:	03-04-08			
ADWR No.	TM-2	522573			Weather:	Sunny,	breezy	1	
Location:	0-24-24	- 4aac		and the second second	Collected By:	MA + KL	U		
					WELL DATA				
Well Depth (1	ft bls):	640	)		Static Water Le	vel (ft bmp):	obstructed	1@ 339.70	
Casing Diam	eter (in):	4	•		Date/Time:	03/04/08			
		nitoring	3		Point of Measu		T.O.C		
3 Casing Vol	umes:	4				TM 3472019	× 12R 06	04155	
				FIFI	Elevation: SAMPLING D	47 <i>99</i>			
		Total			Specific	,,,,,, 			
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)		Color	Odor	Comments	
13:51	dry		november a Maderial American constructions and a						
	0	***************************************		<u> </u>					
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***************************************									
				04145					
			Container		No. of	Analysis			
Sam	ple ID	Time	Type	Volume	Containers	Method	Preservative	Notes	
						·			
Additional C	omments:	Dry-	no sam	i ple					
		J		r					
Water System	Schematic:								
	1		So Tai	ling hup					
		-	t apropagation of sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic description of the sentralistic						
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#### Groundwater Sampling Form

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Project No.	872	002.2			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Vell ID:	TM- 2	2.A			Date:	03-04-0	8	
ADWR No.	55 -	522 574	1		Weather:	Sunny		
Location:		4-4ac			Collected By:	KW + N	1A	
					WELL DATA			40.00
Well Depth (ft	bls):	925			Static Water Le	vel (ft bmp):	346	.62
Casing Diame		4			Date/Time:	03-04-08		
Well Use:	Mon	itoring			Point of Measu	rement:	T.O.C.	
3 Casing Volս	ımes:	370 gn	1x3= 11	34	GPS:	UTM 34720	19 × 12R	0604155
	113 min	^			Elevation:		4799	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
13:54	10	S	10.04	21.6	263	light brn	none	
14:00		60	9.08	21.9	295	,,	11	
14:03	n	90	8.67	22.6	302	almost clear	none	few rust Aecks
14:08	went	ry/40						
		)						
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)								
— <del>—</del> —				SAMP	LE INFORMAT	ION	L	
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
TM	-2A	14:25	plastic	125250 50	3	306.0	y/N/N	
				,			, , ,	
Additional Co	mments:							
						o		
Water System S	chematic:							
•					-	tauns	MM	
						11.		

MOZA



Well Depth (f Casing Diam Well Use: 3 Casing Vol	ft bls): eter (in): Moniky	3 12575 100 4"			Client: Date: Weather: Collected By: WELL DATA Static Water Lev Date/Time: Point of Measur GPS: Elevation:	3/12/08 Clear MA vel (ft bmp):	127.14 Toc 365 UTM	34737/0		
				FIELD	SAMPLING DATA					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
				SAME	PLE INFORMAT	ION				
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes		
Additional C		Pump u	rould not	- Stay e	ngaged - p	Pump Cont	ndler open	rs -resets		
Water System	Schematic:									



Project No.	8720	2072			Client:	PHELPS DO	GE COPPER	QUEEN BRANCH		
/ell ID:		25 MIL	LER		Date:	2-26-08				
ADWR No.	52	2694			Weather:	Clear/cold		a annual mouse annual annual annual annual ann ann ann ann annual annual annual annual annual ann ann ann an a		
Location:					Collected By:	MA/KU				
					WELL DATA					
Well Depth (f	it bis):	160			Static Water Lev	vel (ft bmp):	Dry Butte	omed at 154.30		
Casing Diam	•	4"				2-26-08				
Well Use:	••••				Point of Measur	ement:	TOC			
3 Casing Vol	umes:				GPS:	12 R 603900	0 346719	0		
o odomy vo.	,				Elevation:	4615				
				FIELD	SAMPLING D					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
			and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s							
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4				0444	PLE INFORMAT	FION				
			Cantainer	SAMI	No. of	Analysis				
Sam	ple ID	Time	Container Type	Volume	Containers	Method	Preservative	Notes		
Additional C	Comments:	Sound	er Prob	e hit d	ottom a	154.30° b	toc			
Water System	Schematic:									
100 mm										
Maksalan										
j										



Groundwater Sampling Form

⁻roject No.	8720	02.2			Client:	PHELPS DODGE COPPER QUEEN BRANCH				
√Vell ID:		MILL			Date:	02 - 26 - 0				
ADWR No.		695			Weather:		Sunny, breezy			
Location: D					Collected By:	KW + N	1A 0	3		
J.	21 11	17 acc								
					WELL DATA					
Well Depth (ft	bls):	200	)		Static Water Le		158.78			
Casing Diame	eter (in):	4		***************************************	Date/Time:	2/26/08	9:00	######################################		
Well Use:	<u> Moni</u>	itoring			Point of Measur	rement:	TOG			
3 Casing Volu		41 x3 =			GPS:		377 1erc	0606061		
	7 n	in pung	<u></u>		Elevation:	4687				
				FIELD	SAMPLING D	ATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
8:30	12	0	7.54	17.9	467	light brn	Strong	rotten smellin		
8:33		36	7.50	18.9	466	almost cir	decreased	nearly clear		
8:37		96	7.45	19.5	457	clear	none	2		
8:42	144	156	7.44	19.6	457	Clear	none			
Market Constant and Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant				<u> </u>	***************************************		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s			
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				<u> </u>						
				SAME	 PLE INFORMAT	ION.				
			Container		No. of	Analysis	<u> </u>			
Samp	le ID	Time	Type	Volume	Containers	Method	Preservative	Notes		
TM-6		8:45	plastic	15/20/25C	3	300.0	Y/N/N			
- Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Cont	Marie Control of the			///	-					
Additional Co	mments:	early or	lor - Sulf	inface for	Hen eac	oder Ci	- ved 4	o ovičekla		
	•	50.4000	collecte	d. 2122	after pott	iso adeptav	COOMETE	p quickly		
	,	MANAGE		7-7-	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	The contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract of the contract o	Chh	a frame		
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91 Hills



Project No.	872	002.2			Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
Well ID:	TM-				Date:	03-06		
ADWR No.	***************************************	5 - 522	576		Weather:			COO
Location:	D. 24-24				Collected By:	MA +	breezy Kn)	
	- 631 6	necevi s	^\		WELL DATA			
Weil Depth (fi	bis):	350		Visit (1884) Series (1884) Series (1884) Series (1884)	Static Water Le	vel (ft bmp):	ob	structed @ 58.15
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(ba	sed on 19	89 W.L	\		Elevation:		759	
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
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			Container	JAMIE	No. of	Analysis		
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Project No.	872	001.0			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
fell ID:	Tm-	08 50	NAN		Date:	2-13-0	४	
ADWR No.	55-5	22817			Weather:			ecoming cloudy
Location:	2594 (	wind mi	- 1	h Rd	Collected By:	KW/A	ρ ′ ′	
	TOLL O	f Seven	Rel ]		WELL DATA			
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Well Depth (ft		<u> </u>			Static Water Lev	el (ft bmp): 2/13/	unable to	
Casing Diame Well Use:	<b>)</b>	nestic	<del></del>		Date/Time: Point of Measure		TUC	:36
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o Casing You	11103.	(C) X 3 *	- 26 /		Elevation:	317080	4701	607/50
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	На	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
13:55	10		7.63	₹5.2	511	Cleur	No	Sampled From Tank
		Militaria						
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1.					Andread Protection			
				SAME	PLE INFORMATI	ON		
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
TM-08	SWAN	14:05	Plustic	125/250/50	₀ 3	300.0	Y/N/N	
	ranen un en arreitaren arreita eta esta esta esta esta esta esta est							
Additional Col	mments:			et own	er, Sample	was to	Ken forom	1,000 gul tank
		-DVI) CVI 8	ous lett	ea on e	C-7/1-0 Y			PLANTAGE THOSE OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A CONTROL OF A
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Project No. Fell ID: ADWR No. Location: Well Depth (f Casing Diam Well Use:	55~ 5.	PIONKE 22815 160' 6" to 20'	4" From		Client: Date: Weather: Collected By: WELL DATA Static Water Lev Date/Time: Point of Measur	3-/1-08 Clear MA vel (ft bmp): 3-/1-08/	Dry to	R QUEEN BRANCH
3 Casing Vol					GPS: Elevation:	12 R 060	0830 U	TM 3468934
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
				·				
				SAMF	LE INFORMAT	ION		
Sam	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
Additional Co	omments:	wen	Not in	use				
Water System S	2 a h a m ati a r		oolanee kalanny liiko lako kalan kalan makanjan ka sant samasahi					
vaice System (	Schematic.							
<i>)</i>								



Project No.	8720	102,2			Client:	PHELPS DOI	DGE COPPER	QUEEN BRANCH
/ell ID:	TM-1.				Date:	2-26-08		
ADWR No.		697			Weather:	Clear		
Location:				<u> </u>	Collected By:	MA/KU	<u>ノ</u>	
					WELL DATA		D 6	15900
Well Depth (	ft bls):	175			Static Water Le		Dry (Best	tomed ut 159.80)
Casing Dian		4"			Date/Time:	2-26-08	Tar	
Well Use:	Monit	oring			Point of Measu		TOC.	///
3 Casing Vo	lumes:				GPS:	12R 6013	-	14/
				FIELF	Elevation: SAMPLING D	46/1	)	
		Total		FIELL	Specific	AIA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)		Color	Odor	Comments
								THE RESIDENCE OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF T
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4				CARE	PLE INFORMA	TION		
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Sar	nple ID	Time	Container Type	Volume	No. of Containers	Method	Preservative	Notes
Additional	Comments:	Sounder	Probe	hit the	bottom at	159.80 61	vc	
, , , , , , , , , , , , , , , , , , , ,								
		Way - 114 Miles - 100 Miles - 100 Miles						
Water Systen	n Schematic:							



Project No.	877 TM-1	0027	)		Client:		DGE COPPER	QUEEN BRANCH
ADWR No.	55-5	22698			Date: Weather:	3-11-08 Clea1		
l ocation:		74010		M to distribute Address to rechange and process of property.	Collected By:	MA		
N.	aco, AZ							
	<i>'</i>				WELL DATA			
Well Depth (	ft bls):	<u>200</u>			Static Water Le	٠/	Dry to	180'
Casing Diam		6''to 20'	<u>4" to</u>	200'	Date/Time:	<u> 3-11-08/16</u>	00	
Well Use:	monitore	'ng			Point of Measu			
3 Casing Vol	lumes:				GPS:	12 K 060	1269 UTW	1 3469822
				FIELE	Elevation: SAMPLING D	4626		
		Total		FIELL	Specific	AIA		
Time	Discharge Rate (gpm)	Discharge (gallons)	рН	Temp (°C)	1	Color	Odor	Comments
		***************************************						
				SAME	LE INFORMAT	ION.		
0			Container		No. of	Analysis		
Sam	ple ID	Time	Type	Volume	Containers	Method	Preservative	Notes
	na di mangangan kangan kan							
Additional C	omments:	Not Sur	model -	Sound	er hit both	tom @ 180	0' btoc -6	)ry
				WO-1544				
		Alexandra de la companya de la comp		MANAGAMAN ANG ANG ANG ANG ANG ANG ANG ANG ANG A				
Water System	Schematic:							
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Project No.	X72/	20.10			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
'ell ID:	TM.	-14		oodsaarkeen 120min 142 milet van 2000 in 180min 1900 in 180min 1900 in 180min 1900 in 180min 1900 in 180min 190	Date:	02/08/0		
ADWR No.		22816	)		Weather:	CLEAR		
Location:		0,AZ			Collected By:	AP/M/		
					WELL DATA		a	P
Well Depth (f	t bls):	215			Static Water Le	vel (ft bmp):	211	.79 211.79
Casing Diam	eter (in):	6"	1		Date/Time:	02/08/	2008	
Well Use:	E	3611ES	7th N	OWSW	Point of Measur	rement:	TOC	
3 Casing Vol	umes:	well is n	ear dry		GPS: UTM	3470110	12R 05	99627
			,				12R 05	
				FIELD	SAMPLING D	ATA	<del></del>	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1116	<23pm	0	7,62	23,5	321	Clear	None	•
1117	< Z JPA	~1	2.64	22.4	319			
<u> </u>	Slgen	14	7.68	21.4	3/6			
113[	SIgAN	16	7.65	22.0	317			
1123	Slapm	^7	7.64	21.6	3/7			
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1				SAMF	LE INFORMAT	ION		
Samı	ple ID .	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
TM-14	/	1125	Plastic	125/250/50	. 3	300.0	HNO2/None	Filtered Junfiltered
Dupozo	909		Plastic	25/25/500	3	300.0	HNO. None	F. Hered Junfiltered
Additional Co	omments:	1125 L		low has	s almost s	tupped,		and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t
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#### Groundwater Sampling Form

		872002	2		Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
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ADWR No.		522196	1		Weather:	7	breezy	
Location:	D. 24.2	4.6 bcc			Collected By:	MA + Ku		
	on Road	1- 0 000			Collected by.	IMA LIVA		
7-1110	J. (				WELL DATA			
Well Depth (ft	t bis):	32	5		Static Water Lev	/el (ft bmp):	294.90	
Casing Diame	-	4"	*			2/27/08	9:2	D
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3 Casing Volu		30 ×3 = 9	177	(1)	GPS: เมื่อ	1 347143	6 12R 0	599618
	3:61 = 3		<del>~~~~</del>		Elevation:			
		3-3-1-3			SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
9:56	7	0	7.71	18.9	345	clear	none	
9:58		17	7.89	21.2	348	l l	٤(	
10:01		35	7.81	21.7	344	10	Li	
10:04		63	7.73	21.8	344	N	И	
10:06	70	77	7.66	21.9	344	41	10	and the second second second second second second second second second second second second second second second
				SAME	LE INFORMAT	ION		
			Container		No. of	Analysis		
Samp	ple ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
TM-15	MILLER	10:07	Plastic	15/20/20	3	300.0	Y/N/N	
							T',	
Additional Co	omments:	Sound	er hunc	uo @	147'			
	•		<u> </u>	)				
	^ - l +!		Pouc	a line				
Water System S	Schematic:		minument ( )	O				
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Project No.	872	002.2			Client:	PHELPS DOD	GE COPPER	QUEEN BRANCH
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TM-				Date:	03-05-0	<u>8                                    </u>	
ADWR No.			)		Weather:	undy, p	artly close	ly
Location: D.	24-24	10 dba			Collected By:	KW+M-	arry close	
					WELL DATA		01.20	
Well Depth (ft	bls):	115	AN AN AN AN AN AN AN AN AN AN AN AN AN A		Static Water Lev		81.00	
Casing Diame	eter (in):	4			Date/Time: (			0
Well Use:	Mon	itoring			Point of Measur	ement:	1.0.C	0. 10017
3 Casing Volu	ımes:	22.2	3 = 66.	6		R 06055	87 wm	3469847
					Elevation:		1685	
				FIELD	SAMPLING DA	AIA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
13:13	15	0	7.14	21.2	1334	none	none	Clear
13:15	17	30	7.14	20.8	1328	N	ч	V °
13:17	N	60	7.15	20.8	1342	4	h	
13:19	h	90	7.17	20.6	1351	~	и	
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				SAM	PLE INFORMAT	TION		
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
TM-I	16	13:20	plastic	12525025	0 3	300.0	4/N/N	
Additional C	omments:		A PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF					
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Water System	Schematic:							
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Project No.	8720	2022			Client:	PHELPS DO	DGE COPPER	R QUEEN BRANCH
/ell ID:	TM-	17			Date:	3-12-0		
ADWR No.	522	700			Weather:	Clear		
Location:					Collected By:	MA		
					WELL DATA			
Well Depth	ft bis):	3 <i>0</i> 0,			Static Water Lev	vel (ft bmp):	Dry	
Casing Dian		4"		and the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of th	Date/Time:	3-12-0	8	
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3 Casing Vo		)			GPS:	2R 6040	76	3468451
					Elevation:	46	622	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
		###						
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				SAME	LE INFORMAT	ION		
Sam	nple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
A delition and C			7	1217 5	7) 5,45			
Additional C	omments:	11/7	to 1	88.5	O ptoc			
Water System	Schematic:							
OTT.								
COLOR FIRE SAN: 1-144								
E-statement of the statement of the stat								
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Project No.	87,	2002.	2_		Client:	PHELPS DO	GE COPPER	QUEEN BRANCH
Vell ID:	TM-19	9 52258			Date:	03-06	-08	
ADWR No.	55-	52258	31		Weather:			
Location:		24-8			Collected By:	Clear, MA + K	w O	
					I WELL DATA			
Well Depth (f	t bis):		210		Static Water Lev	vel (ft bmp):	dry	- Jobstructed@
Casing Diam	eter (in):	monitor	4"		Date/Time:	3/6/08	11:	55
Well Use:		monitor	ina		Point of Measur	rement:	T.O.C	<u> </u>
3 Casing Vol	umes:				GPS:	3469185	x 0602	2464
							4615	
	100000000000000000000000000000000000000			FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
dry								
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Samı	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
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Additional Co	omments:	NO SA	MPLE	00	structea	turned	pump or	, no water
Water System S	Schematic:						-	
· }								



Groundwater Sampling Form

Project No.	87200	2.2			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
Vell ID:	TM-1				Date:	3/6/08		
ADWR No.	55-5	22580			Weather:	clear - w	rindy	
Location:					Collected By:	MA		
		The state of the state of	A State		WELL DATA	$a\in \mathcal{B}^{1}(\mathbb{R}^{n})\cap \mathcal{B}^{1}(\mathbb{R}^{n})$		Action Committee Committee Committee
Well Depth (ft	bls):	210	700		Static Water Lev		199.85	
Casing Diame	eter (in):	4"			Date/Time:	3/6/08 1	<i>[:/ </i>	
Well Use:	Moris	foring			Point of Measur	ement:	TOC	
3 Casing Volu		1201 = 63	Ja/ X3 =	19.5	GPS:	3469185	x 06024	-64 €TM-19
			<u> </u>		Elevation:		1615	
				FIELD	SAMPLING DA	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1126	20	0	8.17	17.5	458	(/cur	None	
1127	17	20	7.64	19.8	522			
1129	11	60	7.99	21.0	460			
1132	1/	120	8.04	21.5	462			
1135	11	180	8,06	21,2	459	Stight		Slightly Rusty in color
1138	17	240	8.02	2,55	471	Rusty		
`} <u></u>		··········		***************************************	**************************************			
				SAME	LE INFORMAT			
			Container	SAME	No. of	Analysis		
Samp	le ID	Time	Type	Volume	Containers	Method	Preservative	Notes
TM-19	'A	11:40		128/22/224	3	300.0	HANDO/None None	,
			, , , , , ,	,, -, ., .,			-97.	
Additional Co	mments:	This well didn't	lwill like	ely be pa	empod dry as	pump is 1	ceted at 45	gpm But it

Water System Schematic:

19A = 522580 700 19 522581 210



Project No.	872	002.2			Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH
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				FIELD	SAMPLING DA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
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				SAMP	LE INFORMAT	ION		
Samp	ole ID	Time	Container Type	SAMP	LE INFORMAT  No. of  Containers	ION Analysis Method	Preservative	Notes
Samp	ole ID	Time	ı		No. of	Analysis	Preservative	Notes
Samp			Туре	Volume	No. of Containers	Analysis Method		
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Additional Co	omments:		Туре	Volume	No. of Containers	Analysis Method		Notes  odor Came up
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Project No.		87200	12.2		Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
Vell ID:		TM-4:	٨		Date:	03-05-9	8	
ADWR No.	55	-562 5	554		Weather:	Windy (	partly clos	<u>idy</u>
Location:	123-24-11	OCBC			Collected By:	MA + K	w '	J
j	ust North o	n Pundy L	anes					
, W.		10000000			WELL DATA	A CONTRACTOR OF THE		CHALL STATE STATE OF THE STATE
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Casing Diame		5	)				3 124:18	(14:18)
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3 Casing Vol	umes:	40 gas	$\times 3 = 12$	20	GPS: t		698 x 34	69105
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2,500	T		T	FIELL	SAMPLING D	ATA	I	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
14:25	4	0	7.96	20.1	1316	clear	none	
14:29	Ŋ	16	7.16	20.5	1393	slightly brown	nish "	
14:33	1,5	32	7.10	20.7	1357	clear	Ч	
14:30	u	52	7.10	20.8	1342			
	runnin	gout of	water					
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1. J. J.						:		
`}								
				SAME	LE INFORMAT	ION		
			Container	OAM	No. of	Analysis		
Samp	ole ID	Time	Type	Volume	Containers	Method	Preservative	Notes
TM-	42	14:40	plastic	125 25 250	3	300.0	9/0/0	
Additional Co	omments:	Frow de	Creasin	9 @	14:38			
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Water System S	Schematic:		-					
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Project No.	57	2002	- Z		Client:	PHELPS DOI	DGE COPPE	R QUEEN BRANCH
'ell ID:		W-43			Date:	THE RESIDENCE AND ADDRESS OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF THE PERSON OF T	>3.08	
ADWR No.	56	4724			Weather:	Sunn	1 , cola	λ ,
Location:	See	els			Collected By: .	MA	KW	
					WELL DATA			
Well Depth (f	t bls):	210			Static Water Lev	rel (ft bmp):	433:	71 149.05
Casing Diam	,	4"				03.03	EVERTACE AND ADDRESS OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PAR	
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3 Casing Vol	ımes:	1300	pallon.	2	GPS: 603	328 E =	347466	3 N
			~		Elevation:			
		7 ( )	I	FIELL	SAMPLING DA	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1203		6	6.09	19.5	2866	dave	Yes	
1206		12	6.22	20.2	2685			
1210	<b> </b>	49	6.23	19.9	7698			
1214	<del>                                     </del>	105	6.20	10.7	2718	<del></del>		
1222	<del>  / -  </del>	133	6.17	19.9	2762		<del></del>	
1226		161	6.18	19.8	2817			
1230		189	6.17	19.9	2788	1	5	
			Cantainas	SAME	PLE INFORMAT			
Samı		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
TM-7	3 1	1535	Plastic	12/20/16	3	300.0		
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### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

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Well ID:	TV.	I 736	>		Weather:	Clear	•	
ADWR No.	55-	8022	36		Collected By:	MA		
		<b>9</b>						
				WEL	L DATA	<u> </u>		
Well Depth (ft bls	s):	255			Time:	<u> </u>		
Casing Diameter	(in):	12"			Point of Measur	ement:	140 (19	99)
Static Water Leve	el (ft bmp):	Lastknon	n 140'b	tox (1499)	GPS:	UTM 3	467991	1600564
1 Casing Volume	(gals):	481			Elevation:	43	572	
3 Casing Volume	s (gals):	1445						
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
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		3.3.		SAMPLE IN	NFORMATION			
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TVI 23	6	0830	Plastic	125 ml	1	EPA 300.0	HNO3	Filtered
TUI 23	6	0830	Plastic	250 ml	1	EPA 300.0	None	Filtered
CS INT	6	0430	Plastic	500 ml	1	EPA 300.0	None	Unfiltered
Additional Comm	nents:	Golf Co	1-13e 3u	perinte.	lant Ste	ted that	yle pun	np has
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### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

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TVI	875	930	Plastie	250	1	300.0	None	Unfiltered
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Income management mentioners			-					
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					WELL DATA			
Vell Depth (ft	bls):	120			Static Water Lev		25.2	
Casing Diame	eter (in):	D.D. 5/2 to	0100' NO C	asing	Date/Time:	2-13-08		<u>~~~~</u>
Vell Use:	domestic		60	100-120'	Point of Measur	ement:	T.OC.	(19" strek up)
Casing Volu	ımes:	117 x3 =			GPS:	UTM 34686	591 IDR	0607555
			23 min		Elevation:	4669		
				FIELD	SAMPLING D	ATA	T	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
10:29	15		6.84	19.0	639	clear	none	
10:32	N		6.98	19.9	647		**	
10:35	ß		7.02	19.6	647	66	4 *	
10:38	· N		7-01	20.0	648		øŧ	
10:42	N		7.04	20.2	647	41	44	
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10:50	1		7.05	20.2	650			
		375						
<u> </u>				SAM	PLE INFORMAT	TION		
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
WALK	ER	10:55	plastic	125/250/	500 3	300.0	Y/N/N	
Additional Co	omments:	No casing	100-120	'; perf	80-100		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
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### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

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ADWR No.	5445	35			Weather:		dusty	
Location:	1463 Hu Nuco,		h Rel.		Collected By:	AP	tw	
			Sec Constitution		WELL DATA			
Well Depth (f	t bis):	300	)		Static Water Lev	vel (ft bmp):	No Acco	?sS
Casing Diam	eter (in):	NA			Date/Time:	2-14-0	8 14!	
Well Use:	do	mestic			Point of Measur		NA	
3 Casing Vol		NA			GPS:	347097	6 1ZR	601415
					Elevation:		4682	
				FIELD	SAMPLING DA	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
14:52	NA	NA	7.74	71.7	323	clear	No	Few rusty sediment
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ADWR No.	6419	102			Weather:	RAIN +	- wind	
Location: 3	316 5	. Naco	Hwy		Collected By:	KW \$	AP	
					WELL DATA			
Well Depth (ft	bls):	200			Static Water Lev	vel (ft bmp):	143.3	
Casing Diame	eter (in):	6"			Date/Time:	15 Feb 08	8:01	
Well Use:	dom	estic_			Point of Measur	ement:	TOC	
3 Casing Volu	***************************************		3 = 28	51	GPS:	KW 466	12 LER	346 <i>8667</i> 6601147
Ū	•		25		Elevation:	4602		
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
8.15	10		7.17	15.8	997	clear	none	few rusty flakes
8:17	٠,		7.78	16.4	1000	. ;	* 1	10 6 11
8:19	41		7.39	19.0	995	ч	ŧ,	clear
8:22	٩		7.52	19.6	910	£1	64	l ₁
8:24	eş.		7.51	19.8	965	*(	6.4	И
8:28	11		7.51	20.2	1024	n	46	и
8:31	14		7.50	20.2	1048	r.i	11	'4
8:34	и		7.50	20.0	1069	16	t į	ts.
8:37	4 <		7.48	70.0	1072	14	1)	ч
7		2200	H					
		1	T	SAME	LE INFORMAT		T	T
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
WEIS	SKOPF	8:40	plastic	3/18/50	3	300.0	y/W/W	
Additional Co	omments:					· · · · · · · · · · · · · · · · · · ·		METEROPHIC CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROP
Water System S	Schematic:			e e e e e e e e e e e e e e e e e e e			$\mathcal{N}$ .	1
				CONTRACTOR AND AND AND AND AND AND AND AND AND AND				
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### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

Project No.	8720	01-0			Client:			R QUEEN BRANCH
all ID:	ZAND	SER			Date:	02/041 RAIN	2008	
ÓWR No.	205				Weather:	RAIN	14- chou	OY
Location:		,			Collected By:	AP/MA		
					WELL DATA			
Well Depth (ft	: bis):	280'			Static Water Le	vel (ft bmp):	10	44.85
Casing Diame	eter (in):	6	•		Date/Time:	02/04	12008	
Well Use:	~	DOMES	TIC		Point of Measur			TOC.
3 Casing Volu			595 Q	15 gun	GPS: UTM: Elevation:	346800.		0599677
				FIELD	SAMPLING D			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
a:30	20	40	207	17-1	395	CLEHR	N	
0235	N	140	7.13	19	391	11	N	
0240	d	LYO	7.14	19.8	395	-	1	
0250	ø	440	7.21	20.2	392	N	n	
0355	P	540	7.24	19.7	392	1	N	of FREE colors which the threat colors which colors the first the Addition was also also accompanies to a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color and a color an
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				SAME	PLE INFORMAT	CION		
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
ZAND	EL	1500	PLASTIC	250	/	300.0	N	
Additional Co	omments:							
Water System S	Schematic:			1				
4	Ž		WILSON		Z E ?			
			J13			METERE		HOUSE
					FEN AR	ICED =	<del>\</del>	Word



Project No. Phase No. Well ID: ADWR 55 No. Well Depth (ft bl:	2.2 AND 6137	ERSOX	imo 23	WEL 36	Client: Date: Weather: Collected By: L DATA Time: Point of Measur	5-5-0 Clear MH	Sopper Queen  8  Toc	Branch
Static Water Lev 1 Casing Volume 3 Casing Volume	vel (ft bmp): e (gals):	145 235,5	5	mia	1	See File See File		
					PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
1025	10	05	6.74	23.2	1247	cleur	None	openbibar 1023
1031	80,0	80	6.98	21,6	1213	11	l e	
1038	10	150	7.00	21,5	1232	11	"	
1048	11	750	6.86	21.6	1538	t I	l p	
1058	11	350	6.85	21.8	1231	( (	1,	
1108	71	450	6.92	21.7	1242	10	11	
1118	11	550	7.02	51.8	1229	e,	10	
1128	11	650	7.03	21.8	1233	C.	1 (	
1132	,te	700	7.03	21,8	1231	<b>3</b> .x	.,	
				SAMPLE IN	NFORMATION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
ANDERS	ON	11:35	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered



Project No.	87:	2000	0		Client:	FMI Copper	Queen Bran	ch
Phase No.	2	. 2			Date:	5-12-	08	
Well ID:	BAI	VKS	986		Weather:	Clear	/wine	./~
ADWR No.	61	1798	6	10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10 to 10	Collected By:	MA	1 116	7
	425-				Johnson By.			
		280000 Teesto, 550 Sec. NS. Zev. 19						
	1.565 (1.55) 1.565 (1.55)			WELI	DATA		e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
Weil Depth (ft bls):		438	5.8		Time:		5	
Casing Diameter (i	n):	6	\\		Point of Measur	ement:	NA	
Static Water Level	(ft bmp):	See Co.	mment	below	GPS:	See F.	le	
1 Casing Volume (		32	. /		Elevation:	See F.	Je	
3 Casing Volumes	•	964	1				And the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
/332	10	20	7,26	25.6	1070	Clear	None	Openbil of 13:30
1340	10010	100	7.41	22,3	1056	00	N	
1400	10	300	7.33	22, 2	1017	4	4	
1415	11	450	7.34	22,1	1025	n	17	
1446	11	750	7.30	22.2	1028	//	1,	
1500	VI	900	7.40	22.1	1021	, ,		
		, - 0			, /			
	4	Toxal	19.	1	1			
			0130	harge	1,000	99/		
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Sample	ID .	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
BANKS	986	15:10	Plastic	250ml	1	EPA 300.0	None	Filtered
Dup 05	1208	15:10	Plastie	250ml	l	300.0	None	Filtered
Additional Comme	ents:	I will	use wl	Messe	m From	-647987	) of 216	5.30 For
Purye U	ol. Eo	10	13-05	1208	und EQB	-05/20	08. FI	3= unfiltered
	C 1	ed						



Project No. Phase No. Well ID: ADWR No.	13F.	72000 2.2 7187 7987	98		Client:  Date:  Weather:  Collected By:  DATA	5-12-0 Clear MA	/w.nd	
Well Depth (ft bis Casing Diameter		2/6.	300	14	Time: Point of Measur	/3:/5 ement:	TUC	
Static Water Leve		2/6.	30		GPS:	See F	:/e	
1 Casing Volume		NA	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Elevation:	See F	ile	
3 Casing Volume		NA						
			**************************************	IEI D SAN	PHNE BATA			
	Discharge	Total		\$1654.024\\$1816.02101 <b>\$</b>	Specific		e e saleta (filozofia)	
Time	Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comment
				,				
								, and the second second second second second second second second second second second second second second se
				AMPLE	IFORMATION :			· · · · · · · · · · · · · · · · · · ·
e e e e e e e e e e e e e e e e e e e	Provide Strange of the Spiriters		Container	THE COURSE OF STREET	No. of	Analysis	o er ere myelve kilinger er	on et Maria, Gergania (1851), de dese
Sampl	e ID	Time	Type	Volume	Containers	Method	Preservative	Comment
			Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comn	nents:	Wate	r leve	1 mea	su/emen	t only	<u> </u>	
						/	/	



### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

Project No.	-6/	10000	DTAN.	010	Client:		DGE COPPER	R QUEEN BRANCH
'ell ID:	~~ <u>~~</u> ~~	08501	RTON O	010	Date:	5-12-08 clear /2	. • 1	
ADWR No. Location:		00501		CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF	Weather: Collected By:	mA	" nely	э эт эт эт эт эт эт эт эт эт эт эт эт эт
Location:					Collected By:	- POIA		
					WELL DATA			
Well Depth (ft	bls):	300	`		Static Water Le	vel (ft bmp):	227.SO I	radiak
Casing Diame	eter (in):	1 6"			8	5-12-09		,0,5
Well Use:	Domeskic	Iri: gar.	(Sp		Point of Measur			
3 Casing Volս					GPS:	2R 606	200 39	169049
					Elevation:	468	<u> </u>	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
-								
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Samp	ole ID	Time	Container Type				Preservative	Notes
Samp	ole ID	Time			No. of	Analysis	Preservative	Notes
			Туре	Volume	No. of Containers	Analysis Method		
			Туре	Volume	No. of Containers	Analysis Method		
			Туре	Volume	No. of Containers	Analysis Method		Notes  9 at 225' byoc
Additional Co	omments:		Туре	Volume	No. of Containers	Analysis Method		
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Samp Additional Co	omments:		Туре	Volume	No. of Containers	Analysis Method		
Additional Co	omments:		Туре	Volume	No. of Containers	Analysis Method		
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Additional Co	omments:	This w Sounder	Pump X well	Volume  OF OP  Covered	No. of Containers  ercetional in rust	Analysis Method		

### HYDRO GEO CHEM, INC.

Groundwater Sampling Form

Project No.	an management of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the section of the		and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th					
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ell ID:		tON 91	9		Date:	5-12-08		
ADWR No.	55-6	44919			Weather:	c/ear/w	indy	
Location:					Collected By:	MA		
					WELL DATA			
Well Depth (f	ft bls):	130		-	Static Water Le	vel (ft bmp):	113.71	
Casing Diam		6"			î	5-12-08		· · · · · · · · · · · · · · · · · · ·
Well Use:	Domes				Point of Measur			HANCO CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTR
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Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
				SAME	PLE INFORMAT			
Sam	ple ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
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Water System	ochemanc:					12		



Project No.	87	2000	20		Client:	FMI Copper Queen Branch			
Phase No.		2.2			Date:	5-23.	-08		
Well ID:	T	3F-0.	1		Weather:	Cloudy	/rain/u	vindy	
ADWR No.		53978	33	en en en en en en en en en en en en en e	Collected By:	MA	(		
		247		WELL	L DATA				
		1.1	00,	WEL		7.11.5			
Well Depth (ft bis			00'		Time:	7:45	7 00	/ 1	
Casing Diameter	(in):		F		Point of Measur	ement:	1000 0P )	ound my trube	
Static Water Leve	el (ft bmp):	34	y,80	)	GPS:	<u>See file</u> See file			
1 Casing Volume	(gals):	35,4		wanwara	Elevation:	See Fil	9		
3 Casing Volume	s (gals):	101							
Section 1997	1928 C. W. W.		i je je f	IELD SAN	PLING DATA				
	Discharge	Total	pН	Temp	Specific				
Time	Rate (gpm)	Discharge (gallons)	(SU)	(°C)	Conductance (µS/cm)	Color	Odor	Comment	
7:51	8	8	6.30	20.3	2773	Clear		Pumpon 7:50	
7153	8	24	6.29	20.5	2752	-11	None	Black Sedlment	
7'.54	Pumpe	1 dry 32				1:	J1	17	
8:10	6	44	6.41	18.3	2698	Clear	None	Few sediments	
0.10	-0	'/-	<u> </u>	7010	20/0	0,727		-6.7	
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Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
BF-C	BF-01		Plastic	250ml	1	EPA 300.0	None	Filtered	
	BF-01 8:/0 Pla								
Additional Comm	nents:								



Project No.	37	2000	0		Client:	FMI Copper Queen Branch				
Phase No.		2.2			Date:	5-13-	-	NAMES OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE P		
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ADWR No.		57792	27		Collected By:	MA				
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			. 4	W/EI	L DATA					
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1 Casing Volume	(gals):	_60.	5		Elevation:	See File	6			
3 Casing Volume	s (gals):	181	1.5	16min					9-10-40 A	
				- IELD∗SAN	IPLING DATA					
	Discharge	Total			Specific					
Time	Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comm	nent	
13:29	12 24 653		23.6	1496	Clear	None	openbid	13:27		
13:35	11 72		6.56	22.9	1488	10	1 (			
13/38	11	132	6.58	22.8	1486	11	11			
13'45	11	216	6.58	22.7	1489	n	11			
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		101				s.				
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Sample	Sample ID Ti		Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comm	nent	
BIM	BIMA 13:48			250ml	1	EPA 300.0	None	Filter	ed	
									<u>ajous arena de de de la constantion de</u>	
Additional Comm	nents:									



Project No.	87	2000	20		Client:	FREEPORT C	opper Queen	Branch
Phase No.	***************************************	2.2			Date:	5-15-0		
Well ID:	BLO	mmE	R		Weather:	Cleur /	ce. 'ndy	
ADWR 55 No.	633	472			Collected By:	MA		
	255					or contracting out the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of	ak maka 1970 kilomatoka at iki ku iloki kanak atik iki iloki at iloki at iloki at iloki at iloki at iloki at i	
				WEL	L DATA	111.		
Well Depth (ft bis	s):	<u> 350</u>			Time:	11:45	1/11	
Casing Diameter	(in):	6	in the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		Point of Measure	ement: See R	NA	***************************************
Static Water Lev	el (ft bmp):	NA	Structe	1 4277	GPS:	See s.	le	
1 Casing Volume	e (gals):	NA			Elevation:	See R.	Ye	
3 Casing Volume	es (gals):	NA						
		T	ı	FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
11:52	10	20	7.08	24.1	846	Cleur	None	open bib at 11:50
11:55	10	50	7.11	72.4	843	11	1,	
12:00	10	100	7.24	21.9	846	h	11	
12:10	/0	200	7,/6	72.2	850	И	14	
12:15	10	250	7.16	22.2	846	11	11	
12:20	10	300	7.16	22.2	845	11	) /	
	1	otal b	urge	13	B504a	<u> </u>		
	[	VIU.	00.70	, 0				
				SAMPLE IN	NFORMATION			
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
BLOMM	NER	12:25	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered
Additional Comn	nente:							
.aaiaonai Ooiiii		Processor and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon	***************************************					
	A	,						



						AND THE PROPERTY OF THE PARTY O	W. A. C. C. C. C. C. C. C. C. C. C. C. C. C.			
Project No.	87	2000			Client:	FMI	Copper	Dueen Branc		
Phase No.	7	2.2			Date:	4-22-0				
Well ID:	BI	URKE	<u> </u>		Weather:	Clear				
ADWR No.	SZ - S	12268	\$		Collected By:	MA				
			100	WELI	_DATA			The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
Well Depth (ft bis	):	780	) `		Time:	10:2	0			
Casing Diameter	(in):	6"_			Point of Measure	ement:	op of Cond	uctes cosing		
Static Water Leve	el (ft bmp):	606	5,55	•	GPS:	173031 1212 0602231				
1 Casing Volume	(gals):	25	4.8		Elevation:	483				
3 Casing Volume		765	eal "	96min	,	-				
			1	FIELD SAM	IPLING DATA					
Time	Discharge Rate	Total Discharge	рН	Temp	Specific Conductance	Color	Odor	Comment		
Time	(gpm)	(gallons)	(SU)	(°C)	(µS/cm)		Ouo.	Comment		
14:03	E	9	6.65	28.6	462	Clear	None			
14:05	8	Ť	6.97	273	445	11	1)			
14:10	8		7.05	26.8	445	11	11			
14:15	((		7.01	27.0	444	11	1/	······································		
14:55	'(		7.09	27.5	447	n	1)			
14:35	11		7.05	27. 3	444	4	11			
14:45	11		7.06	27.6	436	11	1,			
14:55	1(		7.04	27.5	430	11	t v			
15:10			7.09	27,4	428	11	1,			
15:25	11		7.09	27.3	422	tr ·	11			
15:35	1,	150	7.13	27.0	423	/ (	11			
	Tota	Disch	ege is	1772	ja					
				SAMPLE IN	FORMATION					
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
BURKE	F	15:40	Plastic	250ml	2	EPA 300.0	NO3	Filtered		
BURKE	-	15:40	Plastic	500 ml	1	EPA 300.0	None	Unfiltered		
Additional Comm	nents:									
A+ 87pm	1.6000		8 D ==				**************************************			
177 UJPM	W	A Purpe	1.) 1(80							



Project No.	872	0000	2	gan popularen anta anta anta anta anta anta anta an	Client:	FMI Copper Queen Branch				
Phase No.		-2		en en en en en en en en en en en en en e	Date:	5-13-6	08			
Well ID:	CAN	1PBEL	L		Weather:	Clear				
ADWR No.		5509			Collected By:	MA				
					·					
							93.			
7.0			47 - 12 - 14 14-15 - 12 - 12 - 12	WEL	DATA	e de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de la companya de l	en en en en en en en en en en en en en e			
Well Depth (ft bls	s):	200 5"	<u> </u>		Time:	<u> 4:35</u>				
Casing Diameter	(in):	_5``			Point of Measur	ement:	TOC			
Static Water Lev	el (ft bmp):	181.80			GPS:	See fil	e le			
1 Casing Volume	e (gals):	NA		Elevation:	See Fil	R				
3 Casing Volume	es (gals):	N	A							
					Hank Evet					
	Di			IELD SAN	PLING DATA					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment		
								**************************************		
				MOLE	IFORMATION :					
	***************************************			WMCFE II	1	Applysis	and the comment	orni delicore richi della (di proportioni)		
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
			Plastic	250ml	1	EPA 300.0	None	Filtered		
		A1 -	<b>1</b>	1.1.			<b>.</b>			
Additional Comn	nents:	<u> </u>	ample,	wei	11 is not	in opera	ation_			
			04+31/4111-2-1414-4-14-14-14-14-14-14-14-14-14-14-14							



Phase No.	Comment	33
Collected By:   M/h	Comment	3.5
Collected By:   M/h	Comment	33
WELL DATA	Comment	33
Well Depth (ft bis):	Comment	35
Well Depth (ft bis):	Comment	35
Casing Diameter (in):   6	Comment	35
Static Water Level (ft bmp):    NA   See File   GPS:   See File     1 Casing Volume (gals):   NA   Elevation:   See File     3 Casing Volumes (gals):   NA     Time   Discharge   Rate   Discharge (gallons)   (PC)   Conductance (µS/cm)     936   6   6   7.19   21.5   434   Cleur   None   0.945   11   60   7.15   22.0   423   11   11   11     945   11   90   7.16   22.1   420   11   11     1   1   1   1   1     1   1	Comment	35
1 Casing Volume (gals):    NA	Comment	35
1 Casing Volume (gals):    NA	Comment	35
3 Casing Volumes (gals):    NA	Comment	35
FIELD SAMPLING DATA  Time Rate Discharge (gpm) (gallons) (SU) (°C) Specific Conductance (μS/cm) (μS/cm) (γS/cm) Comment	35	
Time Discharge Rate (gpm) Discharge (gallons) Discharge (gpm) (SU) Temp (°C) Conductance (μS/cm) Discharge (gallons) Color (μS/cm) Discharge (gallons) Color (μS/cm) Discharge (gallons) Color (μS/cm) Discharge (gpm) Color (μS/cm) Discharge (gpm) Color (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Discharge (μS/cm) Disc	Comment	35
Time Rate (gpm) Discharge (gallons) (SU) (°C) Conductance (μS/cm) Color Odor (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/cm) (γC) (μS/c	Comment	<u>35</u>
936 6 7.19 21.5 434 clear None 0, 940 11 30 7.19 22.1 421 11 945 11 60 7.15 22.0 423 11 11 950 11 90 7.16 22.1 420 11		<u>35</u>
945 11 60 7.15 22.0 423 11 1· 950 11 90 7.16 22.1 420 11	open bib ox 933	
950 11 90 7.16 22.1 420 " "		
730 11 10 1110 221 420		
955 11 120 7.15 22.1 421 11 11		
	<u></u>	
		<b>E</b> mointainme
		-
SAMPLE INFORMATION		
Sample ID Time Container Volume No. of Analysis Preservative	Comment	
CHAMBERS 9:57 Plastic 250 ml 1 EPA 300.0	Filtered	



Project No.	37.	2000	20		Client:	FREEPORT (	Copper Queen	Branch
Phase No.	2.2 Date: FREEPORT Co							
Well ID:	COL	3 m	W-1		Weather:	Clear		
ADWR 55 No.	902	992			Collected By:	mA		
about our no.		// / \			Concolou By.	7:117		
				WEL	L DATA			
Well Depth (ft bls	):	420	)		Time:	8:12		
Casing Diameter	(in)·	6"			Point of Measur		TOC	
		233	5.17		GPS:			
Static Water Leve		721	4 /			See Fr	7.1a	
1 Casing Volume		47	<u>1,6</u>		Elevation:	See	~ /C	
3 Casing Volume	s (gals):	02	7	55min				
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
8:14	15	1.5	6.86	21.9	2153	Clear	None	Open bib at 8:13
8:18	1(	75	6.87	21.8	2106	1:	11	Spen Di O al P - 1,17
8:53	11	150	6.84	21.7	2135	٠,	٠,	
8:58	11	225	6.86	21.7	7129	1,		
4:33	11	300	6.86	21.9	2117	((	10	
४:3४	ι,	375	6-86	21,7	2112	(1	/(	
8:43	1,	450	6.78	21,9	2066	n	11	
4:53	<u>'-11</u>	600	6.83	21.9	2055	1,	17	
9:03	K	750	6.87	22.0	2063	, -	10	
9:08	1(	425	6.88	22.0	2050	11	11	
				SAMPLE IN	IFORMATION			
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
COB M	1W-1	9:10	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered
		3						
Additional Comm	ents:	í						
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Project No.	872	0000	)		Client:		Copper Queen	Branch
Phase No.	2	1.2			Date:	5-20-	08	
Well ID:	COB	me	<i>N</i> -2		Weather:		Lwind	. y
ADWR 55 No.	903	984			Collected By:	MA		
					_			
· is the live ones poems, a especie.	Tana di sa sa sa sa sa sa sa sa sa sa sa sa sa		ra efraco. Birrau o assesa					
			•	WEL	L DATA			
Well Depth (ft bis	s):	162			Time:	10:27		
Casing Diameter	(in):	<u> </u>	. 1		Point of Measur	ement:	Top of So	unding tube
Static Water Leve	el (ft bmp):	123.00			GPS:	See File		<u> </u>
1 Casing Volume	(gals):	75	.5		Elevation:	See Fil		
3 Casing Volume	s (gals):	77	7 901	lomin				
				TELD OAL		violeta arroma er till sitte		
	D:	T-4-1		TELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:34	8	වි	7.02	244	495	Clear	None	Pumpon or 10:33
10:37	11	40	7.18	22.0	479	1.	11	
10:40	11	56	7,28 7,32	21.3	489	11	ι,	
10.93	1 1	700	1,52	21, 2	7 10		10	
					q			
	4.	IT-1	1	1. 11. (7	-/	6 9a/		
		otal	1130	My				
		10,						
							·	
	Massansa para sa sa sa sa sa sa sa sa sa sa sa sa sa							
				SAMPLE IN	FORMATION			
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
COB W	COB MW-2		Plastic	250 ml	1	EPA 300.0	Kone Hose	Filtered
Additional Comm	nents:	The meas	ucing poi	ny 15	3.15 above	the surv	eyor's mark	on Coocleye
pad arou	ind outs	do of	conductor	casing	·			



Project No.	012	<u>0000</u>			Client:	FREEPORT C	opper Queen	Branch
hase No.		2-2			Date:	5-20-	08	
Vell ID:	COB	mu	J-3		Weather:	Clear		
NDWR 55 No.	906	823			Collected By:	MA		
	_					•		
			adva vada kod					
				WEL	_ DATA			State and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the stat
ell Depth (ft bis	s):	300	)		Time:	11:18		
asing Diameter	(in):	<u> 4"</u>			Point of Measure			
tatic Water Leve	el (ft bmp):	125.	00_		GPS:	See file See fil		West and the second second second second second second second second second second second second second second
Casing Volume	(gais):				Elevation:	See Fil	e	TO AND TO THE REAL PROPERTY OF A CONTROL OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF TH
Casing Volume	s (gals):	34:	3 /	17min		To The control of the late of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the co	Handa hala biya asan sa sina sa sa ka sa ka sa ka sa sa paga ka sa sa sa	
				IELD SAN	IPLING DATA			
Time Discharge Rate (gpm)		Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
11:55	20	100	7,38	21.7	479	Cleur	None	Pumpon 11:20
11:30		200	7.52	23.5	469			
11:35		300	7.51	72.3	470			
11:40		409	7.54 7.56	22.3	477		_	
11:45		500	7.36	66.5	773	•		
			, n.		50	)() sol	<u> ii</u>	
		Ofa	Dis	Chai	90 00	July 3		
		,						
				SAMPLE	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
COB n	1W-3	11:46	Plastic	250 ml	1	EPA 300.0	None 1103	Filtered
	ments:							



Project No.	872	000	<u> </u>		Client:	FREEPORT C	opper Queen	Branch
Phase No.	2	. 2			Date:	5-20.	08	
Well ID:	COB	WL	9		Weather:	Clear	/ Windy	
ADWR 55 No.	593.	1/6			Collected By:	MA	en en en en en en en en en en en en en e	
nder borne en an en en en en en en en en en en en en en								
		150		WEL	L DATA			
Well Depth (ft bis	s):	<u> </u>			Time:	9:27		
Casing Diameter	(in):				Point of Measur	ement:	Top of	Sounding tube
Static Water Leve	el (ft bmp):	<u>57,</u>	50		GPS:	See Cile	>	J
1 Casing Volume	(gais):	60	)		Elevation:	see [i]	10	
3 Casing Volume		18	4	18 min				
			Ţ	IELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
9:33	10	10	6.90	23.6	1049	Clear	None	Pray on 9:3?
9:35	11	30	6.97	22.1	1043	1 <	7/	
9:39	1.	70	7.04	21.5	1049	1(	1)	
9:42	11	100	7.09	51.3	1047	11	.11	
9:45	3	110	7.14	21.5	1048	le	12	9:47 Slow 64
9:50	6	134	7.29	21.8	1053	te	Lr .	
9:53	6	152	7.30	21.9	1055			Steady an 690
9:56	4	164	7-30	21,9	1053			Flow is slow
	1	115	,		1-7			
	lota	al Vis	harge	15	180 g	a /		
			<u> </u>					
				SAMPLEI	NFORMATION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
COB	WL	10:00	Plastic	250 ml	1	EPA 300.0	NO3	Filtered
Additional Com	ments:	The me	easuring around	point cond	is 1.6 a	above the	e survey OB rep	, mark stated that



Project No.	812	1000	0		Client: FMI Copper Queen Branch				
Phase No.	***************************************	2.2			Date:	5-14-	08		
Well ID:	10	OPE	R		Weather:	Clear	No. 10 10 10 10 10 10 10 10 10 10 10 10 10		
ADWR No.	60	356	<i>t</i>		Collected By:	ma			
				WELL	_ DATA				
		375	_	***		13:40			
Well Depth (ft bls		<u> </u>			Time:				
Casing Diameter		4.			Point of Measur	surement: $VA$			
Static Water Leve	el (ft bmp):	NA	Vo Hece	255	GPS:	See Fil	<u> </u>		
1 Casing Volume	(gals):	1/1			Elevation:	Jee K./	<i>e</i>		
3 Casing Volume	s (gals):	NA							
				TELD SAM	IPLING DATA				
Time	(gpm) 4'01 6		pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
14:01		(gallons)	7.94	24.3	415	Clear	None	on at 14:00	
14:05	66	30	8.01	55' 5	421	l (	1 (		
14:10	V	60	8,14	21,9	419	16	1r		
14:30	u	120	8.08	22.3	421	11	ι,		
14:40	11	140	8.11	55, 7	428				
14:50	/1	300	8.08		420				
, , , , , ,	,		0.00	<u></u>	. , ,			420000000000000000000000000000000000000	
			2506	2.(0)	. 2/	Ogal			
		otal 6	DASCV	4198	75 06	$OJ^{q}$			
		ı		SAMPLE IN	IFORMATION				
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
COOPER		15.00	Plastic	250ml	1	EPA 300.0	None	Filtered	
				·					
dditional Comm	ents:								
W-10-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1									



Project No.	4720	000	-		Client:	FREEPORT Copper Queen Branch			
Phase No.	2.				Date:	5-5-0	8		
Well ID:	1001	PER	_		Weather:	clear			
ADWR 55 No.	6370	069			Collected By:	MA			
						resident control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of t			
							A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		
				WEL	L DATA				
Well Depth (ft bis	s):	550	, `		Time:	12:79			
Casing Diameter (in): Point of Measurement:									
Static Water Leve		155	,34		GPS:				
1 Casing Volume		95			Elevation:	See fil-	e		
3 Casing Volume		28.5	30.	nin Purg	1				
3 Casing Volume	s (gais).	-00		nn rung					
			I	FIELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
1240	10	70	664	24.5	2132	Clear	None	open bill at 1238	
1245	10	70	6.76	72.4	2156	10	t c		
1250	10	120	6.77	22,1	7130	11	11		
1300	10	220	6.75	22.1	2/30	1 c	( :		
1305	10	270	6.78	55.7	2139	10	11		
13TM									
				SAMPLEIN	NFORMATION				
			Container		No. of	Analysis			
Sample ID		Time	Type	Volume	Containers	Method	Preservative	Comment	
COOPER	· C	13:10	Plastic	250 ml	1	EPA 300.0	NO3	Filtered	
parameter (III to the Annie Marie Ma							A CONTRACTOR OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF TH		
Additional Comm	nents,								
Additional Collin	ionio.					**************************************	1		
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		ATT 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTOR 15 CONTRACTO		net to the second second second second second second second second second second second second second second se				
Project No.	87	2000	0		Client:	FMI Copper	Queen Bran	ch
Phase No.		2.2			Date:	5-12-0	08/	
Well ID:	DOI	).SON	,	-	Weather:	Clear	/win	dy
ADWR No.	644	1917			Collected By:	MA	/	7
ADVINIO.		15			_, .		<u></u>	
SERVICE INCOME SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVICE OF THE SERVIC								
44		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	in The Control	WEL	LDATA		ACTUAL CONTRACTOR	A de Como de Carlos.
Weil Depth (ft bis	s):	my 200	18	0'	Time:	15:2	0	
Casing Diameter	· (in):	MA &"	4"		Point of Measure	ement:	70C	
Static Water Level (ft bmp):  8/.38  GP								
1 Casing Volume (gals):					Elevation:	See F.7	1/e	
		19	3	18min	Lievation.	J(E)		
3 Casing Volume	es (gais):			10mg				
	7.77	4/4		FIELD SAN	IPLING DATA		and the second	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
1526	11	11	7,00	22.5	1069	Clear	None	Openbil ax 1525
1530	11	55	7.12	21.5	1061	11	11	
1533	1,	88	7.14	21.1	1078	10	U	
1537	10	132	7.15	21.3	1086	11	31	
1540	11	165	7.19	1.15	1105	11	l,	
1543	n	198	7.11	21.]	1118	1/1	И	
		4	1 /	- 1		70		
		104		73 CU	arge 1	20		
						1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
	2			SAMPLEI	NFORMATION :			Karaman and Agent and Arm
Sampi	ie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
Donson	N	15:45	Plastic	250ml	1	EPA 300.0	None	Filtered
		/ / /						
		14011 /5	3 ~ uh =	1 == 1	- 1'0	ne te	1919	10.1 40.2
Additional Comm	nents:	Var el	eport and	Lacure :	ed almost co	with s	an con	(Neekond
1111 0030	n spared t	THE GUL	vell nas	oven use	ed almost co	nstempy 11	Tre past	wenerm.



Project No. Phase No. Well ID: ADWR No. Well Depth (ft bis	592	7200 2.2 61.455 791		WEL	Date: Weather: Collected By: DATA Time:	DATA  Jeather:  14:35			
Casing Diameter		5			Point of Measure		70C		
Static Water Leve	el (ft bmp):	24.6	0	anga anga anga anga anga anga anga anga	GPS:	See Fil	<u> </u>		
1 Casing Volume (gals): ////					Elevation:	see 141	IE		
3 Casing Volume	es (gals):	NA							
en effer des	1989 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		i i i i i	IELD SAN	IPLING DATA		Life and Mark		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
				NAME OF THE PARTY	JEORN'S TION				
			e respectable to the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t	SAMPLEIN	No. of	A notice:	in according total agriculture.		
Sampi	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
			Plastic	250ml	1	EPA 300.0	None	Filtered	
Additional Comr	nents:	Waser	Level	only					
				- and the second second second second second second second second second second second second second second se					



Project No. Phase No. Well ID: ADWR No.	87 	2000 2.2 6LASS 2792	parameter		Client: FMI Copper Queen Branch  Date: 5-13-08  Weather: Clear / Windy  Collected By: MA			
Fig. 1. 188	a sa sa sa sa sa sa sa sa sa sa sa sa sa		i area di di sa	WEL	LDATA			The Page 1
Well Depth (ft bls	s):	200			Time:	14:40		
Casing Diameter	Casing Diameter (in):			alma natori maja natura veterini (13.11.000)	Point of Measure		TOC	
Static Water Level (ft bmp):			21		GPS:	See !	-110	
1 Casing Volume	Casing Volume (gals):				Elevation:	See S	1e	
3 Casing Volume	es (gals):	NH						
		16 17 25 25 25 25 25 25 25 25 25 25 25 25 25	i i de la companya di santa di santa di santa di santa di santa di santa di santa di santa di santa di santa d	IELD SAN	PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
				. ·				
								Statistical and the second second of the second second second second second second second second second second
				***************************************				
				New Medical Management of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Contro				
				-				
Managari eti dei kennezeran Managari eta katak belega (1801).								
				SAMPLE IN	FORMATION'	erick og skipper i det er Grænde flygger for skip	en en en en en en en en en en en en en e	error (1997) er yn fyddiodd yn ei ar fell yn ar y chaffer y caell y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y chaff y ch
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
			Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comn	nents:	Water	Level	only				
***************************************	and a second the Head of the Santana and an exercise							



Project No.	8720	0000			Client:		opper Queen	Branch
Phase No.	2.2	)			Date:	5-14-0	8	
Well ID:	EAS	57		udante/moveous persona and analysis and a	Weather:	Clear		
ADWR 55 No.	599	796			Collected By:	MA		
		manda and National Additional Andrews			on the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the second and the			
				WELI	L DATA			
Well Depth (ft bis	s):	125	>		Time:	10:10		
Casing Diameter	(in):	6'			Point of Measur	surement: Toc		
Static Water Leve	el (ft bmp):	52.6	15		GPS:	See file	9	
1 Casing Volume	(gals):	106.	5		Elevation:	See File	0	
3 Casing Volume	es (gals):	320		77min				
	T	ı		FIELD SAN	IPLING DATA	ı		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:14	13	24	7.18	2۲. ک	555	Clear	None	Openbibat 10:12
10:17	12	60	7.29	21,3	544	( <	<i>(</i> <	
10:22	1)	120	7.33	21, 1	571	11	t (	
10:27	11	180	7.31	21.0	586 592	( (	- 10	
10:32	4	300	7.31	20.9	595	l ₁	11	
10.27		300	1101	20.7	7.5			
	T	1-D=	1 6 0	<u> </u>	(1) 900	/		
	Sta	1/13	charge	13 C	per ja			
				<u></u>				
				SAMPLE IN	FORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
EAST		10:42	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered
Additional Comn	nents:						acus was a second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the secon	
				***************************************		W		



Project No.	872	2000	0		Client:	FMI Copper	Queen Bran	ch	
Phase No.		2.2		uga unggana kanda kanda da ka	Date:	5-29-	08		
Well ID:	EN	GLUI	VD		Weather:	Clear			
ADWR No.	56	5260	)		Collected By:	MA			
				WELL	L DATA	in the state of the state of the state of			
Well Depth (ft bis		320	)		Time:	13:43			
		<u> </u>	5		Point of Measurement:				
Casing Diameter		78	9. S	₹	GPS:	See Ri			
Static Water Leve		7/	0.0.	<i></i>	·	See C'	10		
1 Casing Volume		<del>- 50</del>	1 -		Elevation:	JEE KI	18		***************************************
3 Casing Volume	s (gais):	, 0	70	ンから					
				IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comm	ent
1357	8	ଟ	664	24.9	1433	Clear	None	gent &	13:56
1400	8	40	6.90	25.4	1430	1,	11		
1403	왕	56	6.99	71.8	1440	11	21		
1406	0	80	7.01	0.55	1459		( )		Marie Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the Constitution of the
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		,							
			en and a second	SAMPLEIN	IFORMATION"			e na al company	Z., i
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comm	ent
ENGLUND	)	14:10	Plastic	250ml	1	EPA 300.0	None	Filter	ed
I	DUP052908 14:		Plastic	250m1	1	EPA300.0	Wone	Filter	ed
Additional Comm	nents:	Coller	FB	05290	) & and	- 95/mm	52908		
	FB is unfiltered					,3 E'lue	red		



Project No.	972	2000	0		Client:	FMI Copper	Queen Brand	ch
Phase No.		2.2		· · · · · · · · · · · · · · · · · · ·	Date:	5-12-08	3	
Well ID:	EPPI	ELE	641		Weather:	Clear /	winder	
ADWR No.		5641			Collected By:	MA	<del></del>	
ADTITUTE.								
				WELI	DATA	e de la seguina de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition della composit	e a erakilikar Filmorijeda	
Well Depth (ft bis	i):	265			Time:	9:40		
Casing Diameter	asing Diameter (in):				Point of Measure	ement:	TOL	
Static Water Leve	tic Water Level (ft bmp): 30.64				GPS:	See File		
1 Casing Volume	(1)				Elevation:	See File	>	
	1-20/			183min				
	T		1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	TELD SAN	PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:00	10	50	7.18	<b>Z3.3</b>	690	Clear	None	open bibat 9:55
10:10	ic	150	7.18	21.6	675	и	ч	
10:30	1(	350	7.21	21.4	678	И.	11	
11:00	11 we	650	1.21	21. 7	667	1(	١/	
11:20		11 Pum	oed Dr	7	Marilan maria de la Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de La Maria de L			
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		Jal l	1130	narge	000	gal		
		10						
					1		Q Q	
	es es está syric ou está se está signatura	THE PARTY TO BE	ering a cons	SAMPLEIN	NFORMATION			erren (12 er 20 er 14 er 17 er Proposigion designos (17 er 18 er
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
EPPELE 641		12:00	Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comn	nents:							
							A CONTRACTOR OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY O	



Project No.		<u>0000</u>	······································		Client:	FREEPORT C	opper Queen	Branch
Phase No.		2.2			Date:	5-5-0	g	
Well ID:	FRA	NCO			Weather:	clear		
ADWR 55 No.	Soc	0101			Collected By:	mA		
				WELI	LDATA			
Well Depth (ft bis	s):	200	, `		Time:	_13:3c	>	
Casing Diameter (in): Point of Measu				Point of Measur		NA		
Static Water Leve	el (ft bmp):	NA			GPS:	See F.	le	
1 Casing Volume	e (gals):	NA			Elevation:	See fi See fi	le	
3 Casing Volume	•	NA						
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
1330	10	10	6.79	25.0	1563	(lear	None	open bib or 1329
1335	6010	60	6. 48	23.0	1550	10	/(	
1340	WHO 10	10/10	6.89	23.0	1555	14	11	
1345	160 10		6.93	53.0		. 11	Ц	
1350	10	210	6.93	23.1	153 7	10	((	
		440.00						
				SAMPLE IN	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
FRANCO		13:50	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered
Additional Comr	ments:	Mrs. F	lanco is	Conce	encel about	too much	h waser o	nher yard.



Project No.	<u> </u>	2000	0		Client:		opper Queen			
Phase No.		<u> 2.2                                   </u>			Date:	5-14-	08			
Well ID:	F	ULT	Z		Weather:	clear	08 windy			
ADWR 55 No.	71	2447			Collected By:	MA	/			
						managara da mada and a managara da managara da managara da managara da managara da managara da managara da man				
				WEL	_ DATA					
Well Depth (ft bis	s):	30	9		Time:	/0:	55			
Casing Diameter	(in):	6	\		Point of Measur	TOC				
Static Water Leve		No Ac			GPS:	See	Tile			
		NA			Elevation:	see File				
1 Casing Volume		1/1			Elevation:	Jee File				
3 Casing Volume	s (gals):	/V n					HITTERNIO STATE CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRA			
			F	IELD SAN	IPLING DATA					
Time	Discharge Total pH Temp (SU) (°C)		Specific Conductance (µS/cm)	Color	Odor	Comment				
11:00	9	9	6.66	19.6	1859	(lear	None	Open 68 04 10:59		
11:05	l I	54	6.82	20.8	1891	U	11			
11:10	t/	99	6.85	21.2	1899	1/	11			
11.15	14	144	6.86	21.3	1893	l l	11			
11:20	1.1	189	6. 87	21,4	1895	11	1/			
11:30	11	234	6.90 6.89	21,3	1892					
11:40	11	369	6.88	21.3	1881					
11.10		707	6.00	61,0	7 007					
	, .									
				SAMPLE II	NFORMATION					
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
FULTZ 11:45 Plastic 250 ml			250 ml	1	EPA 300.0	None NO3	Filtered			
Additional Comn	nents:	11:36 y	eard is	Floodin	19					



Project No.	_ 3072	0000			Client:	FREEPORT C	opper Queen E	Branch	
Phase No.	2. 7	2		anananananananananananananananananan	Date:	5-5-0	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
Well ID:	55	8557	7		Weather:	clear	windy		
ADWR 55 No.	<u>GA</u>	RNER	557		Collected By:	MA	· · ·		
				v./=:	DATA .				
				W.34	_ DATA	16.5			
Well Depth (ft bis	s):	300			Time:	15:30			
Casing Diameter	(in):	6			Point of Measur		TOC		
Static Water Lev	el (ft bmp):	<u> 191. Z</u>	8		GPS:	See file			
1 Casing Volume	gals):	160			Elevation:	See file			
3 Casing Volume	es (gals):	480							
			F	IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
		·							
	<u> </u>								
	ļ							and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	
			***************************************						
	A RECOGNISSION AS OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE								
			\$	SAMPLE IN	FORMATION				
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
			Plastic	250 ml	1	EPA 300.0	NO3	Filtered	
Additional Comr	nents:	Could	not ol	stain o	sample	as the F	ump Stol	pped	
runnine	after	2 min.	of open	ration			•		
	٠ .								



Project No.	972	0000			Client:	FREEPORT Copper Queen Branch			
Phase No.	2.3	2		CONTENT OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE	Date:	5-5-0	8,		
Well ID:	G-A	RNER	635		Weather:	Clear	windy	-	
ADWR 55 No.	58	37635	g/03**		Collected By:	MA			
				WELI	_ DATA				
Well Depth (ft bl	e):	680	, ,	Age Edging Lam Shall b	Time:	14:25	* ***********************************	Than Dir Lines A Marian Pake Dir Lease d'Unais	
Casing Diameter	•	12"		occussion of the second second second second second second second second second second second second second se	Point of Measur	gilliania, act. A			
Static Water Lev		195	7.90	***************************************	GPS:	•	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		
1 Casing Volume		784	14	***************************************	Elevation:	See file See file	>		
3 Casing Volume		853	33 7	.5hrgu		302/11			
			F	IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
1431	19	19	7.30	26.5	470	clear	None	Open 618 at 14:30	
1441	20	220	7.38	24.8	467	11	11		
1451	20	420	7.35	24.8	467	1/	11		
1501	70	620	7.41	24.6	466	l l	11		
1515	05	700	7.26	24.9	468	((	(1		
	Total	1 0:30	Large	- 1	000	eal.			
	107.		. 0	9		1			
				SAMPLE IN	NEORMATION				
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
GARNE	R 635	1520	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered	
Additional Com	ments:	Dawn le	alker st	euted th	nt 4 le we	Il hus bee	n used alc	t over the	
15:15 j	ldays in	Flooding	trees.						



Phase No	$\mathcal{L}$	7				-	opper Queen	Dianon
 Vell ID:	α.	7			Date:	5-27-00	3	
	G 60	POSE 3	547		Weather:	Clear	windy	
ADWR 55 No.	6283				Collected By:	MA	7	
				WELI	_ DATA			
Well Depth (ft bis):	anne en en en en en en en en en en en en	800			Time:	9:47	7	
Casing Diameter (i	n):	6			Point of Measur	ement:	TOC	
Static Water Level	(ft bmp):	220.	91		GPS:	Ree File	۵ .	
1 Casing Volume (	•	850		***************************************	Elevation:	See File	۵ .	
3 Casing Volumes		255	/				<del></del>	
, casing volumes	(yais).	200						
			F	IELD SAM	PLING DATA			
Time	Discharge Rate	Total Discharge	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:38	(gpm) 2.5-30	(gallons)	6,87	24.0	829	Rusty	Rotten	Pump on at 10:30
10:43	25	325	6.90	72,9	822	Veryslightan	None	
10:50	11	500	7.10	55.2	440	Clear	11	
11:00	47	750	7.06	22.7	846	16	71	
11:15	11	1125	7.11	52.8	857	10	11	
11:30	11	1500	7.06	22.7	855	1,	2)	
11:45	4.1	1875	7.01	25.7	854	1:	11	
12:00	1 1	2250	7.08	22.8	854	26	4,	
12:15	71	2625	7.08	25.7	856			
		T-24	Dixl	- CO-P	2 300	Doal		
		1010	JI X. V	arge	3 00	01		
				SAMPLEII	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers,	Analysis Method	Preservative	Comment
6 GOQSE 547		12:30	Plastic	28.5 ml	1	EPA 300.0	NO3	Filtered
	547	12:30	Plasti	750/500	2	EPA360.0	Nove	Filtered pensilye
								•
Additional Comm	ents:							



Phase No.  Well ID:  ADWR 55 No.  Well Depth (ft bls):  Casing Diameter (i	G1 53	2.2	The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s		Date:	5-22-	~ <del>-</del>	
ADWR 55 No.			G1 -03					
Well Depth (ft bls):		539782			Weather:	Cloudy	Lwindy	
Well Depth (ft bls):	231702				Collected By:	MA	7	
, , ,								
, , ,								a collectività de la collectività di sultimi de del del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del collectività del c
, , ,				WELL	DATA			
Casing Diameter (i	•	೪೩	5		Time:	141.	30	
,	in):	4	11		Point of Measur		TOL	
Static Water Level	c Water Level (ft bmp): 660.15				GPS:	See Fi See F		
1 Casing Volume (	100				Elevation:	See F	:le	
3 Casing Volumes	202							
, casing volumes	(yais).							
			F	IELD SAM	PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
14:36	8	र्	7,33	20.4	469	clear	None	Pumpon 14:35
14:40	1 (	40	7.07	22.7	658	( (	И	
14:45	17	80	7.31	25. J	546	10	le	·
14:50	Vl	120	7.16	75.3	585	1(	16	
14:55		160	7.14	25.8	593	te	10	
15:00	Flow is	down to	0 3gp.			5.		
15'.01	3	187	7.12	25.9	549	Black	None	
15:05	2	195	7.11	25.8		Black	· ·	
15:10	3-5	210	7.11	26.1	594	Durk Grey	11	
15:15	3	552	6.97	25.9	668	clear	**	
15:33	Restort		7.06	75.3	647	Cleur	( (	
			(1988) - 234 (um 1822)					
				SAMPLE IN	FORMATION			_
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
GL-03 15		15:35	Plastic	250 ml	1	EPA 300.0	None 1 <del>103</del>	Filtered
Additional Comm	onte:							
Additional Comm	ieiită.							



Project No.	3	72000	00		Client:	FREEPORT C	opper Queen B	ranch		
Phase No.		2.2			Date:	5-5-0				
Well ID:	GOA	R Rai	nch		Weather:	clear/	windy			
ADWR 55 No.	610	695			Collected By:	MA	,			
				WELI	L DATA					
Well Depth (ft bi	ls):	250			Time:	16:10	)			
Casing Diamete	r (in):	7"			Point of Measure	ement:	TOL			
Static Water Lev		188	. 1 1		GPS:	See file				
1 Casing Volume (gals):		NA			Elevation:	See file See file				
3 Casing Volumes (gals):										
				IEI D SAN	IPLING DATA					
	Discharge	Total			Specific					
Time Rate (gpm)		Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comment		
				**************************************						
			AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESIDENCE AND THE RESI							
				SAMPLE II	NFORMATION					
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
			Plastic	250 ml	1	EPA 300.0	NO3	Filtered		
							. 1			
Additional Com	ments:	Wate	r level	Meno	urement	only				



Project No.	872	0000	)		Client:	FREEPORT C	Copper Queen	Branch		
Phase No.		2.2		***************************************	Date:	5-7-0	8			
Well ID:	HOB	AN			Weather:	Clear	/wind	¥		
ADWR 55 No.	80	5290			Collected By:	UNA				
•	the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s									
				WEI	L DATA					
		316			Time:	10:20				
Well Depth (ft bis)		3/6					977.Wa.			
Casing Diameter	(in):	10	20		Point of Measur		TOC			
Static Water Leve	Static Water Level (ft bmp): 163.2		78_		GPS:	~ ^ 1/				
1 Casing Volume (gals):		4		Elevation:	See Filt	>				
Casing Volumes (gals): 673 45				15min				enthalis elikaka bilako elegeja ya kipojan amodonilentik elikakiki kibaki elemasi kecasi kecasi kecasi kecasi		
			F	FIELD SAN	IPLING DATA					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment		
10:26	15	15	6.75	22.6	1497	Clevr	None	open bib ax 10:25		
10:30	11	75	6.86	22.1	1478	11	10			
10:35	. 11	150	6.91	221	1416	l (	l r			
10:40	-1/	552	6.89	22.1	1439	11	11			
10:45	11	300	6.90	52.3	1545	10	(			
10:55	- 11	450	6.88	25.2	1515	1,	11			
11:00	11	525	6.89	25.2	1517	и	11			
11:05	1 (	600	6.87	22.4	1509	11	er			
11:10	11	675	6.88	22,3	1532	/ (	. (			
						N -				
				SAMPLE IN	NFORMATION					
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
HOBAN 11		11:15	Plastic	250 ml	1	EPA 300.0	NABRE	Filtered		
Additional Comm	ents:	-								
			· · · · · · · · · · · · · · · · · · ·	-						
	······································	XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX		······································						



Project No.	8720000				Client:	FREEPORT C	opper Queen	Odor Comment  None openbib or 9:47  11  11	
Phase No.		2.2			Date:	5-8-0	7		
Well ID:	HOL	NARD	)		Weather:	Clear /	windy		
ADWR 55 No.	UnKu	own			Collected By:	MA			
				WEL	L DATA				
Well Depth (ft bis		200			Time:	9:25		alitari unu a sarras rebusa atrapata ita a a atr	
		e \1	····	····	Point of Measur				
Casing Diameter		150	70			See F.			
	Static Water Level (ft bmp):			······································	GPS:	-	1/2	20.000	
1 Casing Volume (gals):		73	.4		Elevation:	See fi	18		
3 Casing Volume	es (gals):	220	)						
			F	IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
9:48	8	G	6.75	22.9	1472	Clear	None	openbib at 9:47	
9:52	il	40	6.36	21.5	1349	(,	/1		
9:57	11	80	6.91	21.5	1446	11			
10,02	11	120	6.91	21.2	1472	l.			
10:07	/1	160	6.93	21.0	1490	10			
10.12	1	200	6.73	41.0	/ / / /	ν.			
								9	
								w w	
				SAMPLE IN	NFORMATION				
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
HOWARD 1		10:15	Plastic	250 ml	1	EPA 300.0	Nege	Filtered	
Additional Comn	nents:								



Project No.	87.	2000 C	)		Client:	FREEPORT C	opper Queen	Branch
Phase No.	2	.ス			Date:	5-6-08	}	
Well ID:	KEI	EFER			Weather:	Clear		-
ADWR 55 No.	209				Collected By:	my		
				WELI	L L DATA			
Well Depth (ft bis	s):	250			Time:	8:10		
Casing Diameter		NA	16"	See Note	Point of Measur		TOC	
		135.	<del></del>		1	Seefile		100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm 100 mm
Static Water Level (ft bmp): 1 Casing Volume (gals): 168					Elevation:	Seefile		
		505	นว	•	Elevation:	<u>Jeerile</u>	/	
3 Casing Volume	es (gals):	303	12	min				
			ı	FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
8:25	12	12	7.00	19.5	480	A Carrie	None	open bil at 8:24
8:30	11	72	7.13	20.1	477	Clear	17	
8:35	12	132	7.12	19,9	473	1,	11	
8:40	11	192	7.17	70.0	499	1 e	¢ (	
8:45	ı l	252	7.15	70.3	486	"	11	
8:50	11	312	7,16	70.1	515	1 (	11	
9:00	11	432	7.15	20.4	508	1 4	11	
9:05	11	492	7.19	30.3	512	11	11	
	1	(11)			Annual Control	1		
		tal ()	schar	e -	552 ga	#		
				SAMPLE II	NFORMATION			
Sampl	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
KEEFE	ER	9:10	Plastic	250 ml	1	EPA 300.0	None NO3	Filtered
Additional Comm	nents:	Mr. Kee	efer sui culculu	d casi	ing dia. is	s Either	6" or y"	- I will



Project No.	77	20000	12.2		Client:	PHELPS DOL	DGE COPPE	R QUEEN BRANCH
all ID:	K	EMP	f		Date:	5-20-09		IT GOLLIV BITAITON
1	55- 64	5912			Weather:	Clear		
l annting.					Callantad D.	MA	.fr -g	
159	51 E.B	order Rd.	Bisbee, AZ				,	
					WELL DATA			
Well Depth (ft	t bls):	<u>/50</u> 6"	, '		Static Water Lev		NA	
Casing Diame			·		Date/Time:	5-22-08	16:40	
Well Use:	Domesti				Point of Measur		TOC	
3 Casing Volu	ımes:	NA			GPS: /	21 60°		3468858
Account to the second					Elevation:	462	2	500 Comment Color
		Total		FIELL	SAMPLING DA	AIA		
Time	Discharge Rate (gpm)	Discharge (gallons)	pН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
1650	10	<u> 20</u>	7.27	21.7	435	Cleur	None	Openhoses, 8 at 1648
16,55	И	70	7.23	21.3	430	10	11	
1700	01	150	7.26	8.05	430			
1705	2		7.24	21.2	435			Flowskare way down
				,				
				SAMF	PLEJINFORMAT	ION		
Samp	ole ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes
KEN	γP	17:10	Plustic	250		300.0	None	504 only
Additional Co	omments:	Ideplo	yed bot	th sound	ers to 180	o' and nei	ther indice	ited water.
		Owners :	started w	lisaro	und 80°. Ings = 309	I will bai	se purge	volume on that.
		(casi n	97103	3 cas	ngs = 309	<u> </u>		
Water System S	schematic:						Though	(X)
				/	,			
Po	wed,	Diry						
	wed Borde	rRd	And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s					
:								



Project No.	872	0000			Client:	FREEPORT C	opper Queen	Branch
Phase No.	2.2				Date:	5-6-08		
Well ID:	mcco	NNE	1756	55	Weather:	clear/	windy	
ADWR 55 No.	5392				Collected By:	MA		
				MEL	DATA			
				WEL	_DATA			
Well Depth (ft bis)	: _	2/6			Time:	11:32	water .	
Casing Diameter (	(in): _	6"	4 -		Point of Measur		70c	
Static Water Leve	l (ft bmp):	156.	<u>40</u>		GPS:	See File See Fil	<u> </u>	
1 Casing Volume	(gals):	87.	5		Elevation:	See Fil	e	
3 Casing Volumes (gals): 263 33min								
				HELD SAN	IPLING DATA			
	Discharge	Total			Specific			
Time	Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comment
11:45	3	જ	6.61	23.8	1672	Cleur	None	open bib as 11:42
11:48	17	48	6.71	21.8	1674	((	11	
11:53	11	४८	6.76	21.6	1686	11	1 (	
11,58	1 (	128	6.77	21.3	1696	61	11	
15,03	11	168	6.77	21.4	1677	11	11	
12:08	10	र०४	6.75	21.5	1658	1.0	(1	
12,13	11	248	6.77	21.5	1665	ł ę	11	
17:18	1/	८४४	6.77	21.6	1668			
	ALCONO DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR DE LA COLOR					era, nevan dilapai Korbai Verini		
			Augustu il sentre megre ej mi	SAMPLE II	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
MCCONNELLZ65 12:20		Plastic	250 ml	1	EPA 300.0	lbne NO3	Filtered	
Additional Comm	ents:							
	·		-					And the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s
	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			***************************************				



Project No.	8720000				Client:	FREEPORT C	opper Queen	Branch
Phase No.	api	2.2			Date:	5-15-	08	
Well ID:	ME	TZLER			Weather:	Clear		
ADWR 55 No.	35-	71491			Collected By:	MA		
ABVIK 00 No.		. 0 //		<del></del>				
				WEL	L DATA			
Well Depth (ft bis	s):	35	)		Time:	10:19	>	
Casing Diameter	(in):	6			Point of Measur	ement:	TUC	
Static Water Leve	el (ft bmp):	286	.53		GPS:	See f	·Ye	
	Casing Volume (gals): 94.7				Elevation:	See	Cile	
3 Casing Volumes (gals):								
o casing volume	is (gais).							
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:22	10	20	7.00	23-7	1032	Clear	None	openbil at 10:20
10:26	l1	60	7.10	27.6	1035		11	
10:31	(1	110	7.16	22.4	1043	17	1/	
10:36	11	160	7.15	22.7	1045	• • • • • • • • • • • • • • • • • • • •	11	
10:41	51	210	<u> 7.14</u>	22.7	1047	le	10	
10:46	17	260	7.12	25.8	10.51	11	11	
			<b>/</b> 门、	1	760	901	<u> </u>	
		Otal	1/15	harge	1 000	0"	· ·	
					- N.			
				SAMPLE II	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
METZLER 10:50 Plastic		250 ml	1	EPA 300.0	None NO3	Filtered		
Additional Comr	,	Thisu	ell has	been	runwing	us the b	usins an	ound trees



Project No.	97	72000	20		Client:	FREEPORT C	opper Queen	Branch	
Phase No.		2.2			Date:	5-8-	08		
Well ID:	mo	PORE		A Principle of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co	Weather:	Clear		onneren mangage, and agent men and the additionary of \$15 king Additions and all health \$18.	
ADWR 55 No.		8847			Collected By:	MA			
						anno anno anno anno anno anno anno anno			
				WEL	L DATA				
Vell Depth (ft bis	s):	220	2		Time:	7:50		· · · · · · · · · · · · · · · · · · ·	
Casing Diameter	(in):	6"			Point of Measur	ement:	NA		
Static Water Leve	el (ft bmp):	No Ac	ress		GPS:	See File See File			
I Casing Volume	e (gals):	NA			Elevation:	See F.	le		
B Casing Volume	es (gals):	NA			Postal Contraction (Contraction		3		
				******************************					
			I	FIELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
7:56	9	9	7.00	19.8	429	(lew	None	open bib of 8:5	
4:00	11	45	7.10	20.9	428	11	10		
8:10	11	135	7.12	72.0	427	te	71		
8:20	11	225	7.03	22.2	428	· 10	11		
<u>(; 30</u>	11	315	7.04	22, 3	430	11	/(		
8:40	11	405	7,09	22.4	432	10	11		
	1	tal D	ischar	re Y	50 ga				
				SAMPLE IN	FORMATION				
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
MOORE		8:45	Plastic	250 ml	1	EPA 300.0	None -NO3	Filtered	
Additional Comn	nents:							***************************************	
	,								



Project No.	<b>₹</b>	7200	00		Client:	FMI Copper	Queen Brand	ch
Phase No.	2	.2			Date:	5-13	-0,8	
Weil ID:	No	TEM	AIV		Weather:	Clear	Wirdy	
ADWR No.	21	2483	,		Collected By:	mA	,	
	7		e verez el perez el	* WFI	L DATA	k garage		
		1470	*			17:03		**************************************
Weil Depth (ft bis		<u> </u>	<u> </u>		Time:			
	sing Diameter (in):				Point of Measur	rement:	TOC	
Static Water Level (ft bmp): 339. 7			-//-		GPS:	See fi	19	
1 Casing Volume	(gals):	13	1.8		Elevation:	See Fil	<u> </u>	
3 Casing Volume	s (gals):	5	<u> 19</u>	34min				
**************************************		E. F.	,	IELD SAN	IPLING DATA-		in the second second second second second second second second second second second second second second second	
<b>T</b> :	Discharge	Total	pH	Temp	Specific Conductance	Color	Odor	Comment
Time	Rate (gpm)	Discharge (gallons)	(SU)	(°C)	(µS/cm)	Color	Odor	Comment
15:12	12	24	6.65	22.7	1451	Cleul	None	open 6% at 12:16
12:15	li	60	6.68	23.6	1453	£,	11	
12:50	M	150	6.68	23.7	1459	Very lite Brown		
12:25	11	180	6.70	23.6	1458	faint ral/tur	11	
12:110	()	240	6.70	23.7	1441	11 //	None	
12:40		360	6.67	(3,	144.5	11 (1	-1 (	
								A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA
				1/2				
	1	4) Pu	48	920	) 9a/			
		201 1 201	0					
					I I I I I I I I I I I I I I I I I I I			
		- 14 		SAMPLEIN	IFORMATION!			
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
NOTEM	AN	12:45	Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comm	nents:			dinastra de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition de la composition della				
		***************************************	·	<u></u>				
			Margarata de la companya de la companya de la companya de la companya de la companya de la companya de la comp					



Project No. Phase No. Well ID: ADWR No.	0.	2000 2.2 5B0R 3436			Client: Date: Weather: Collected By:	FMI Copper Queen Branch  5-13-08  Clear/Windy  MA			
Well Depth (ft bis Casing Diameter Static Water Leve 1 Casing Volume	(in): el (ft bmp):	256 was 68. 278	8 6" 65	WEL	Time: Point of Measur GPS: Elevation:	15:3  ement:  See Fill  See F	TOC		
3 Casing Volume	s (gals):	835		56min					
Time  15:46  15:51  16:01  16:11  16:35	Discharge Rate (gpm)  //5  //  //  //  //  //  //  //  //	Total Discharge (gallons) 30 90 165 315 465 660 825	pH (SU) 7.11 7.28 7.28 7.24 7.21 7.19 7.22	Temp (°C)  22.9  22.4  22.4  22.3  22.3	575 576	Color  Clear  1(  11  11  11  11  11  11  11  11  1	Odor  None  (1  11  11  11	Comment  Copenbibar 15'140	
					UFORMATION :				
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
OSBOR	Ments:	16:40	Plastic	250ml	1	EPA 300.0	None	Filtered	
Additional confin	Citto.								



Project No.	8720000				Client:	FMI Copper	Queen Brand	ch
Phase No.	d	7.2		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	Date:			
Well ID:	PAL	MER	819		Weather:	5-13-0 Clear / MA	windy	
ADWR No.		819			Collected By:	MA	,	
					(d-w-/			
		_		WEL	L DATA	2		
Well Depth (ft bis	s):	220			Time:	15:10	)	
Casing Diameter	(in):	6"			Point of Measur	ement:	NA le	
Static Water Level (ft bmp):		No Acc	<u>ess</u>		GPS:	See si	<u>le</u>	
1 Casing Volume	(gals):	NA			Elevation:	See Fil	le	
3 Casing Volume	s (gals):	NA						
**************************************	The State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the S			11=1 B CAN	IDUNG DATA	and the second		
	Discharge	Total		(IELDISAN	PLING DATA			
Time	Discharge Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
15:12	1	1	7.92	22.9	508	Clear	None	
			e e					: 
				***************************************				
		·						
			COSTOCONO DE LOS COMOS DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE					
			************************************					
Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Company of the Compan		的基础。	er militarinin kan	SAMPLE IN	NFORMATION'	A Company of		A CHARLES
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
PALMEI	2 819	15:15	Plastic	250ml	1	EPA 300.0	None	Filtered
		C (					<u></u>	
Additional Comm		Jamp)t	ceas:	tellen	From Sta	raye tan	k per or	uners
reduest								
				West off the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Control of the American Specific Co				



Project No.	87	20000	)		Client:	FREEPORT C	opper Queen	Branch
Phase No.		2,2	Towns of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control		Date:	5-15-		
	PAI		-			Claudi	_	
Well ID:					Weather:	Cloudy		
ADWR 55 No.		6415	-Award Bylgoy Arrows - All Marie Barrelly o	and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second o	Collected By:	11114		
				WEL	L DATA			
Well Depth (ft bi	s):	<u> 35</u> ,	5	ny ny kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaominina dia kaomin	Time:	13:30	)	
Casing Diameter	· (in):	6''			Point of Measur	ement:	TOC	
Static Water Lev		279	1.78		GPS:	See file	9	
1 Casing Volume		90,	7		Elevation:	See File		
3 Casing Volume		242	<i>f</i>					
			F	IELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
1333	10	10	6.98	23,3	1201	Clear	None	openois ex 1332
1337	10	50	7.04	55.3	1199	11	11	
1342	10	100	7.09	55.1	1192	)1	//	
1347	10	150	7.10	71.9	1196	11	h	
1352	10	200	7.12	21.8	1196	l?	11	
1357	10	750	7.10	8,15	1200	Į¢	l1	
			117	1 90	7500	ra l		
		lofe	e 1.5	charge	200	' '		
			***************************************					
				SAMPLE II	NFORMATION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
PARRI	4	14:00	Plastic	250 ml	1	EPA 300.0	None	Filtered
Additional Com	ments:							
		<u> </u>			2			



Project No.	87	2000	0		Client:	FREEPORT C	Copper Queen	Branch	
Phase No.		22			Date:	<u>5-7-0</u>	8		
Well ID:	PI	ONKE	ggistin Gr		Weather:	clear	Lwirdy		
ADWR 55 No.	61-	3395		***************************************	Collected By:	mn-	/		
ADWK 33 No.	•				Concoled By:				
				WEL	L DATA				
Well Depth (ft bis	<b>)</b> :	3.30	<b>)</b>	n dystra fajta (140 km) (4	Time: 1300				
Casing Diameter		8	.,	######################################	Point of Measurement:				
		NA			1				
Static Water Leve					GPS: Seekile		See Rile See Rile		
1 Casing Volume		NA			Elevation:	<u> 300 m. 10</u>			
3 Casing Volume	s (gals):	NA				NEW PARKETON CONTROL OF THE SECRETARIES			
			F	IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
13:14	18	18	6-94	21.9	1126	Clear	None	apenbil as 13:13	
13:20	11	126	7.04	21.7	1143	1,	11		
13:30	11	306	7.05	21.3	1092	l r	11		
13:40	11	486	6.95	21.7	1199	١,	le		
13:50	11	666	7.03	21.5	1094	1,	11		
14:00	11	446	7.13	21.4	1092	1/	11		
14:10	11	1026	7.14	51.6	1110	(c	10		
14:20	<i>U U U U U U U U U U</i>	1206	7.08	21. 4	1100	11	11		
				SAMPLE II	NFORMATION				
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
PIONK	PIONKE I		Plastic	250 ml	1	EPA 300.0	Nene	Filtered	
Additional Comm	nents:								



Project No.	-87	<u> 2000</u>	0	***************************************	Client:	FREEPORT C		Branch
Phase No.		2.2			Date:	5-19-08	?	
Vell ID:	PC	OL			Weather:	Clew		
ADWR 55 No.	50	9518			Collected By:	MA		
				WEL	L DATA			
Vell Depth (ft bis	s):	3/3	)	MASSACTION OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE	Time:	9:40		
asing Diameter	(in):	6``			Point of Measur		TOC_	
Static Water Leve	el (ft bmp):	204	1.72		GPS:	See Sil	6	
Casing Volume		159	A Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission of the Commission		Elevation:	See Sil	<u></u>	
Casing Volume		47	7 40	mih	1		<u> </u>	
Juding Volume	- (galo).		<u>k</u>					
			j	FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
954	12	12	7.04	22.7	580	Tan	None	openbibax 95
9:57	12	48	7.18	22./	575	clear	11	3,
10:03	12	120	7.34	21.7	579	11	11	
10:08	12	180	7.38	21.9	579	h	//	
10:13	12	240	7.38	55.7	580	11	rı	
10:18	12	300	7,40	22.2	579	11	((	
10:23	12	360	7.40	22.4	584	(1	11	
85:01	13	420	7.43	22,3	584	10	/1	
10:33	12	480	7.40	222	585			
				SAMDLE	NFORMATION			
		_	Container		No. of	Analysis		
Sample	e ID	Time	Туре	Volume	Containers	Method	Preservative	Comment
POC	) L	10:35	Plastic	250 ml	1	EPA 300.0	Non e NO3	Filtered

		-	



Phase No.  Well ID:  ADWR 55 No.	RA	2000 2.2 MIRE			Date:	5-6-0	8		
			= 7						
ADWR 55 No					Weather:	Clear			
		16425			Collected By:	MA			
	V-12-40-1-20-1-20-1-2-2-3-4-2-3-4-2-3-4-2-3-4-2-3-4-2-3-4-2-3-4-2-3-4-2-3-4-2-3								
				WELL	DATA				
Well Depth (ft bis):		300			Time:	13:0	בי		
Casing Diameter (in	):	6"			Point of Measurement:				
Static Water Level (f	ft bmp):	NA			GPS:	See Fil	le		
1 Casing Volume (ga	•	NA			Elevation:	See Fi	le		
3 Casing Volumes (	•	NA			'				
o duding volumes (s	9410).								
			F	IELD SAM	PLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
13:11	10	10	7.12	24.7	422	Clear	None	openbib ur 13:1	
13:15	1.	50	7.11	23.4	403	(1	И		
13'.20	11	100	7.13	73.4	407	11	11		
13:25	11	150	7,18	23.0	407	"	11		
13:30	11	200	7.18	22.7	405	le	le		
13:35	11	250	7.18	22.7	405				
13:40	11	300	7,19	22.7	405			4	
					The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s				
<u> </u>									
			s	SAMPLE IN	IFORMATION				
Sample II	D	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
RAMIR	RAMIREZ 13:45		Plastic	250 ml	1	EPA 300.0	None NO3	Filtered	
				00000000000000000000000000000000000000					
Additional Commen	nts:								



Project No.	872	0000			Client:	FMI Copper	Queen Bran	ch
Phase No.		2			Date:	5-13-1	08.	
Well ID:	RA	Y			Weather:	Clear	/wii	ndv
ADWR No.	80	3772	2		Collected By:	MA		7
		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	erentek eta arrandera eta perpi (o. eta garregari) an tro	antikasi on 46 Abrilani on 26 Berlandi - Santa Arabin (1844) e e e e e e		eananimment de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communicación de la communic		
							*	
Her Control				WEL	LDATA			
Weil Depth (ft bis	s):	100			Time:	9:15		
Casing Diameter	(in):	8"			Point of Measur		TOC	
Static Water Leve	el (ft bmp):	43.	82	-	GPS:	See fil	e	
1 Casing Volume	(gals):	14	6.7		Elevation:	See fill See F	ile	
3 Casing Volume	s (gals):	44	10 5	5min				
			least to a second					
255				FIELD SAN	PLING DATA		,	
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
9:25	Z	B	696	70.9	1584	Clear	None	openhib cor 9.24
9:30	Ĩι	48	6.99	20.9	1491	1.	1 *	
9:35	10	88	7.02	20.7	1497	11		
9:40	1 (	128	7.06	20.6	1396	( (	1(	
9.95	( (	208	7.06	20.7	1509	n	11	
9:50	1/	288	7.03	20.7	1548	0,	11	
10:10	11	368	7.04	20,8	1526			
10:20	11	448	7.05	70.9	1515			
		i						
		Tu	A Di	1000	Pic 49	Saal		
		01		Chur8	7 7	7 0		
				SAMPLE IN	FORMATION			
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
RAY		10:25	Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comm	ents:							
			en en de la companya de la companya de la companya de la companya de la companya de la companya de la companya	en en en en en en en en en en en en en e		THE TAXABLE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PR		



Project No.		7200	00		Client:	FREEPORT	Copper Queen	Branch	
Phase No.	2	-2			Date:	5-8-0	8		
Well ID:	ROG	SERS	801	3	Weather:	Clear			
ADWR 55 No.	6418				Collected By:	MA			
				WEL	L DATA				
Well Depth (ft bl	s):	140			Time:	7:00			
Casing Diameter	r (in):	6			Point of Measurement: TOC				
Static Water Lev	rel (ft bmp):	Obsta	meted			Seefile			
1 Casing Volume		NA		M 50 W Draw Dr. W	Elevation:	See (il	e		
3 Casing Volum	es (gals):	NA							
			F	IELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
7:21	ઇ	લ	7.16	727	617	Clear	None	open bib at 7:70	
7:23	1 (	24	7.13	21.3	625	l ·	le		
7:28	6	64	7.13	21.1	620	1,	11		
7:33	£ t	104	7.14	515	622	1 (	11		
			. :				-		
				` .					
	-								
			<	SAMPLE IN	FORMATION				
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
ROGED	5 803	7:35	Plastic	250 ml	1	EPA 300.0	<i>None</i> <del>NO</del> 3	Filtered	
NOGE 1C.									



		~ ~ ~ .						
Project No.	<u> </u>	12000	<u> </u>		Client:	FREEPORT C	opper Queen	Branch
Phase No.		2.2			Date:	5-7-0	98	
Well ID:	$\overline{R}$	OGE	RS.	F	Weather:	clear		
ADWR 55 No.	7	16012			Collected By:	MA		anteriori pera consecutari de presidente como como con control de del del del del del del del del del
ADWK 35 NO.		-16010	WEATH BUT TO THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE TOTAL THE	V	Conected by.	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				WEL	L DATA			
Well Depth (ft bis	s):	28	5		Time:	16:05		yang makalang at makalang kalang
		110			Point of Measure	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	70c	
Casing Diameter		- D			1			
Static Water Lev	el (ft bmp):				GPS:	See fil	<u>e</u>	
1 Casing Volume	e (gals):			· · · · · · · · · · · · · · · · · · ·	Elevation:	see ti	<u>/e</u>	
3 Casing Volume	es (gals):	VA	<del>Organisas parasta parasta a Madella</del>					
								- PAGERIA SE mani Wasan ya milani na ili K
				-IELD SAN	IPLING DATA		r	1
Time	Discharge Rate	Total Discharge	рН	Temp	Specific Conductance	Color	Odor	Comment
	(gpm)	(gallons)	(SU)	(°C)	(μS/cm)			
16:11	12	12	7.12	73.9	428	Clear	None	Openbibar 16:10
16:15	n	60	7.15	55.6	412	l (	11	
16:20	11	150	7.19	22,4	917	10	(1	
16:55	11	180	7.19	22.3	4/3	1.	11	
16:30	10	340	7,20	22.2	715	16	11	
16:35	11	300	7.20	22, 2	917	( .	11	
16:40	17	360	7.18	22.2	416	10	<del> </del>	
16:45	11	420	7.18	22.2	415	l (	1 (	
		7 1	)	COLE !	1120	<del>                                     </del>		
		lotal L	); some	1901	480gc	(1	† †	
100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Section 100 Se					- Anninkasakuru- anni	1		
			3	SAMPLE II	NFORMATION	er en general de la company de la company de la company de la company de la company de la company de la company		
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
ROGE	RS F	16:50	Plastic	250 ml	1	EPA 300.0	None Nos	Filtered
					<u> </u>			
			^		1			
Additional Com	ments:	Yard	13 Near	rly floo	oded at 16	5.43		and with the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control of the control



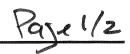
Project No.	3	7200	00		Client:	FREEPORT C	Copper Queen B	ranch
Phase No.		2.7	2		Date:	5-15-	08	
Well ID:	$\overline{R}$	UIZ	)		Weather:	clear	/wind,	
ADWR 55 No.	5	31770			Collected By:	mA	, /	
				2010-10-10-10-10-10-10-10-10-10-10-10-10-		<u></u> f		
			44-14-14-14-14-14-14-14-14-14-14-14-14-1					
				WEL	L DATA			
Well Depth (ft bis	s):	31:			Time:	11:1	8	
Casing Diameter	r (in):	6	• •		Point of Measur	ement:	TOC	
Static Water Lev	rel (ft bmp):	293			GPS:	See f See f	· (e	
1 Casing Volume		27.	2		Elevation:	See F	ile.	
3 Casing Volume		572		AND COLOR ASSESSMENT AND AND AND AND AND AND AND AND AND AND				
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
11:27	NA	NA	7.23	25.9	965	Clear	None	
***************************************								
								NO a water constitution of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the
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				SAMPLE IN	NFORMATION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
RUIZ	7	11:30	Plastic	250 ml	1	EPA 300.0	None	Filtered
		11,00	1 105110	200 1111	I	LI A 300.0	1100	I III GIGU
Additional Com	ments:	This	Sumo 6	could i	hat Cun:	- Dossid	ly dry-	Scenio
,a.t.onar oomi	۸	<del></del>	urp 9	- 0 4101	vuj juil	PUJJ00	17 00. 7	<u> </u>



Project No.	87	2000	)O		Client:	FREEPORT C	opper Queen	Branch	
Phase No.		2.2			Date:	5-19-	०४		
Well ID:	Sc	1086	PRT Z	2	Weather:	clear			
ADWR 55 No.	2	1086	5		Collected By:	MA			
				VMEL I	_ DATA				
		2.5		W-L	- 4444 				
Well Depth (ft bis	):		5	Time: 11:50					
Casing Diameter	(in):	6			Point of Measure		TOC		
Static Water Leve	el (ft bmp):	123.	49		GPS:	See Si	<u>le</u>		
1 Casing Volume	(gals):	266			Elevation:	See F.	7e		
3 Casing Volume	s (gals):	80	# <b>S</b>	3 min					
					<u> </u>	n kada ada kwapana na ka	. STATE STATES OF A BUT A FRANCE OF A	optigueta e antara arretti de estreti de estreti (1900-190)	
			F	FIELD SAM	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
1156	15	15	7.08	25.6	631	clear	None	open bib at 11.5	
17:00	11	75	7.29	22.9	620	. ( -	11		
15:10	a	225	7.24	22.4	637	ĸ	10		
12:20	<i>( 1</i>	37.5	7.39	52.7	632	1.	. (		
12:25	u	450	7.41	22.5	630	11	21		
12,30	f e	525	7.40	22.5	637	le	"		
12:35	n	600	7.40	22.4	635	k	-1 (		
12:45	11	750	7.38	55.4	629	11	b.(		
			***************************************						
					,	<u> </u>	<u> </u>		
			\$	SAMPLE IN	FORMATION				
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
SCHW	ARTZ	12:50	Plastic	250 ml	1	EPA 300.0	None NOS	Filtered	
			1						
Additional Comm	nents:	/							
		?				***************************************			



## HYDRO GEO CHEM, INC.



## Groundwater Sampling Form

outgodor.			, ,					
Project No.	g	7200	0		Client:	FMICE	B	;
Phase No.	o	2.2			Date:	4-23-0	8	
Well ID:	$\overline{SR}$	<u></u>			Weather:	Clear/u	rindu	
ADWR No.	55-	211345	)		Collected By:	MA	J	
						Water and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second se		
***************************************				WEL	L DATA			
Well Depth (ft bis	s):	96.	5		Time:	9:35		
Casing Diameter	(in):	6"			Point of Measur	ement:	Topofue	XII Casing
	Static Water Level (ft bmp): 54/./0				GPS:	XI Casing 0599718		
Static Water Level (ft bmp): 541. 10 btoc 1 Casing Volume (gals): 623					Elevation:	47	45	
3 Casing Volume		186	$\frac{2}{9}$	87min				
o casing volume	. (gais).	100	<i></i>	0100		>ve-		
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment Turk NTU
1226	1 D		7.33	25.0	379	SlightRed	None	
1230	10		7.60	24.6	39/	Pink	(1	140
1235	10		7.65	24.7	381	Pink	1/	
1240	11		7.65	25.1	381	light Pink	10	
1250	n		7.58	25.0	380	light Polite	11	237
1300	Pump	iff at 13	12 -Res	et puny		11 1/	11	
1335	10		7.48	25.6	386	te ff	10	325
1345	10		2.50	75.7	384	ic li	11	190
1400	10		7.60	76.0	387	light Pink	v	184

SAMPLE INFORMATION										
Sample ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment			
		Plastic	250ml	2	EPA 300.0	NO3	Filtered			
7		Plastic	500 ml	1	EPA 300.0	None	Unfiltered			

25.9

25.9

388

386

387

11

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Additional	Comments:
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1415

430

pump on at 1220

2.56





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Project No.	87	2000	)		Client:	+M1 -	-CQB	
Phase No.		2.2			Date:	4-23	3-08	
Well ID:	SRC				Weather:			
ADWR No.	211	345			Collected By:			
			· · · · · · · · · · · · · · · · · · ·					
						DENNIS CALLES CONTRACTOR CONTRACTOR		
				WELI	L DATA			and the second second second
Well Depth (ft bls	s):		;		Time:			
Casing Diameter	(in):				Point of Measur	ement:		(1881) 511 (1781) 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Static Water Leve	el (ft bmp):				GPS:			
1 Casing Volume	(gals):				Elevation:			
3 Casing Volume	s (gals):							
				TELD SAN	IPLING DATA			
Time	Discharge Rate	Total Discharge	pH (SU)	Temp (°C)	Specific Conductance	Color	Odor	Comment
1500	(gpm)	(gallons)	(30)		(μS/cm)	1:1 0:1:	<i>a1</i> .	Trong NTU
1520	<u> </u>		7.55	25.7	387 385	light Pink	None	192
1605	7		7.56	26.3	386	Very light pi	K G	11)
1630	7		7.61	25.9	382	16 6 4	10	₹3.7
1645	7		7.45	25.6	381	H H H	10	\$7.3
1700	7		7.45	75.6	3 <i>80</i> 380	11 11 11	71	4/.6
1715			1.5/	25.8	380	10 11 11	* (	96/
	Total	Pula	e is	1912	agl.			
	701	0			J"			
MARK TRANSPORT							7.	
				SAMPLE IN	FORMATION			
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
SRC-F		17:30	Plastic	250ml	2	EPA 300.0	NO3	Filtered
SRC		17:30		500 ml	1	EPA 300.0	None	Unfiltered
Additional Comm	nents:							
		,		***************************************				



## HYDRO GEO CHEM, INC.

Groundwater Sampling Form

Project No.	8720	000	2.2		Client:	PHELPS DO	DGE COPPE	R QUEEN BRANCH		
/ell ID:	_STA	RK-CA	MPBEL	L	Date:	5-13-09				
ADWR No.		3481			Weather:	Clear				
Location:					Collected By:	MA	-			
					WELL DATA					
Well Depth (1	ft bls):	262			Static Water Le	vel (ft bmp):	Dry			
Casing Diam		6 ma	4"		ŧ	5-13-08	8:25	A STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STA		
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3 Casing Vol		NA			GPS:	IR 606		69373		
					Elevation:	4734				
				FIELD	SAMPLING D	ATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments		
			- N							
								es 1994 Piller (al de la vez de una casa una malded del Provint de la la del se de a ser e una sem proposicion		
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				SAME	LE INFORMAT	ION				
Sam	ple iD	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Notes		
					2					
Additional C	omments:	lagged	battom	of well	44 262	s no equipo				
		This c	vell is	not in	use. It has	s no ear pr	nent			
Water System	Schematic:	1				Varietiese verbieses automoren varietii koleita				
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Project No.	87	20000			Client:	PHELPS DO	DGE COPPER	QUEEN BRANCH
∍II ID:	STE	PHENS			Date:	5-13-08		
ADWR No.	80	XS (00	)		Weather:	clear /c	windy	
Location:	3015 S Bisbee	. CAAUS	(ANE 5603		Collected By:	MA		
			A CONTRACTOR		WELL DATA			
Well Depth	(ft bis):				Static Water Le	vel (ft bmp):	44,94	· · · · · · · · · · · · · · · · · · ·
Casing Diar	neter (in):	4"			Date/Time:	5-13-08	10:45	
Well Use:	Donestic		-		Point of Measur	rement.	TOC	
3 Casing Vo		NA			GPS:	12R 6069	82 346	9074
					Elevation:	4703	5	
				FIELD	SAMPLING D	ATA		
Time	Discharge Rate (gpm)	Total Discharge (gallons)	рН	Temp (°C)	Specific Conductance (µScm)	Color	Odor	Comments
				-				
A								
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·- · · <del>(***</del>								
				SAMI	PLE INFORMAT	TION		
_	. 15		Container		No. of	Analysis		
San	npie ID	Time	Туре	Volume	Containers	Method	Preservative	Notes
Additional (	Comments:	This 4	reflis n	not of	erational			
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		30						
Water System	Schematic:			and the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of the same of th	anticon and the second			
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		Doll	der Rd					



Project No.	87	2000	0		Client:	FREEPORT Copper Queen Branch				
Phase No.	2.2				Date:	5-15-0	8			
Well ID:	SUN	BELT	T			Cleul				
ADWR 55 No.	2019	-				MA				
				w=u	_ DATA					
				WE	- ערי 	8110				
Well Depth (ft bi	s):	380			Time:	8:10	700			
Casing Diameter	r (in):	<u>b_</u>			Point of Measure		TOC			
Static Water Level (ft bmp): 358,97 GPS					GPS:	See Fil	<u>e</u>			
1 Casing Volume	sing Volume (gals): Elevation: See					See F.	ile			
3 Casing Volum	es (gals):	NA								
				IEI D CAN	IDLING DATA					
	l Discha	Total		IELD SAN	Specific					
Time	Discharge Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comment		
				,						
	44.000.000						-			
						<u> </u>				
			S	SAMPLE IN	NFORMATION					
Samp	ie ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
			Plastic	250 ml	1	EPA 300.0	NO3	Filtered		
Additional Com	ments:	This	well ha	sheen	disassem	b)el.				
			, , , , ,	<u> </u>		·				



Project No.	9	37200	000		Client:	FREEPORT C	opper Queen	Branch
Phase No.		2.2			Date:	5-14-0	8	
Well ID:	17	Vo Reco	rd		Weather:	Clear		
ADWR 55 No.	5	SWAN	/	HILLIAND CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CO	Collected By:	mA	n paga naman na nguya pinin na sa dina sa sa di disebah sa sa 1999 na na dina sa sa sa sa pada	
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				WEL	L DATA			
Well Depth (ft bis	):	98	3		Time:	9:00	0	
Casing Diameter (in):						ement:	Toc	
Static Water Leve		30,	69		GPS:	See File	2	
1 Casing Volume		44		1944-ya 4 - 4 - 4 - 5 - 4 - 4 - 4 - 5 - 4 - 4 -	Elevation:	See File See File	P	***************************************
3 Casing Volume		132			Liovation.			
o casing volume	s (gais).							
			F	FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
9:09	4	8	7.18	21.7	500	(lear	None	open bib 9:08
9:13	11	40	7,20	51.5	484	( )	17	
9:16	(1	64	7,22	21.2	487	10	ι,	
9:20	1/	96	7.23	21.2	475	11	10	
9:24	-1(	128	7.24	21.2	479	11	17	
			,		110	,		
		Hul !	lische	rge t	5 16U	94		
	•							
				SAMPLE IN	NFORMATION			
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
SWK	¹ N	91,28	Plastic	250 ml	1	EPA 300.0	None	Filtered
Additional Comm	nents:			·		and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		
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Duningt Mr.	>-	72000			Client:	EMI Conner	Queen Brand	· h
Project No.	<u> </u>	77			Date:	5-23-0		Z11
Phase No.	7	M - O2	N			Cloudy/		
Well ID:		2000	<u> </u>		Weather:	1 loudy /	Windy / P	\$ · \]
ADWR No.	<u>51</u>	2011/4			Collected By:	MA		
			Name of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State					and the second security of the second second second second second second second second second second second se
en.			283.23.44	WELI	DATA		Park San San San San San San San San San San	
Weil Depth (ft bis)	):	92	5'		Time:	8:37	7	AMERICAN AND AND AND AND AND AND AND AND AND A
Casing Diameter (	(in):	L	<i>f</i> 1		Point of Measur		TOC	
Static Water Leve	l (ft bmp):	346	16		GPS:	See Fil	e	
1 Casing Volume	(gals):	3	78		Elevation:	See Fil	e	·
3 Casing Volumes	s (gals):	11	34	94min				
	17			IEI D CAN	PLING DATA			
	Discharge	Total	1,214131131	IELU SAN	Specific			
Time	Discharge Rate (gpm)	Discharge (gallons)	pH (SU)	Temp (°C)	Conductance (µS/cm)	Color	Odor	Comment
9:12	12	12	8.58	71.0	325	light san	None	Pumponed 9:11
9:14	11	36	8.53	20.3	304	h 11	n	
9:17	17	72	8.01	7.15	323	11 11	l i	
9:22	10	132	7.87	22.7	325	almost clear	20	
9:27	16	182	7.75	22.9	321	16 11	None	
9,29	Υ							
	4,7,7,7							
	***************************************							
							The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
	er gelen er er er er er er er er er er er er er	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1		SAMPLEIN	FORMATION!	der gering finder in de Seiner (gabern ein den ein		
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TM-02/	7	9:40	Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comm	ents:	- 120	eaker.	+11:00	ed on g	en. whi	le Flori	Steady
ar In.	en il	<del>\</del>	Cengas	ed by		cump ra	in for 1	min then
	,		<del>- J-7</del>	<u> </u>	San San San San San San San San San San			



roject No.	<u> </u>	2000	0		Client:	FREEPORT C	opper Queen	Branch		
hase No.		2.2			Date:	5-20-	08			
Vell ID:	Th	1 HOW	WS		Weather:	Clear /windy				
DWR 55 No.	522	575	_		Collected By:	MA				
				WELL	_ DATA				Resident and the second second second second second second second second second second second second second se	
Vell Depth (ft bis	):	923	5	edder Mensylva (1921)	Time:	13/0		AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER		
Casing Diameter	(in):	4'			Point of Measure		TOC			
Static Water Leve		127.	40			See Sile		- <del></del>		
Casing Volume		520		·	Elevation:	See Sile			ma en des un literationis	
Casing Volume		156			Lievation.	300 F./E				
	- (30.0)		0.000	a una deservición						
			F	IELD SAM	IPLING DATA					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Com	ment	
13:12	/2	12	7.06	26.2	763	Clear	None	Pumpon	13:	
13:16	( .	60	7.34	23.0	768	"	10			
13:21	1(	120	7.42	22.3	776	(+	(,			
13:26	1.	180	7.51	72,2	774					
13:31 m		1 1)	C . )	00 11						
1335	Pampe	Drya	sper of	009411e	ns					
			٠							
				SAMPLE	NFORMATION					
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Con	nment	
TM-0	DM 03	1410	Plastic	250 ml	1	EPA 300.0	Ken e	Fil	tered	
TM-4	DM 03	7410	Plastic	250 ml	1	EPA 300.0	7403		.erec	



roject No.	<u> </u>	72000	00	PANASAAN Pankimungunan kanasa	Client:	FREEPORT C	opper Queen l	Branch	
nase No.		2.2	Date: 5-20-08						
ell ID:	Tm-	06 M	TLLER	) \	Weather:	clear			
.DWR 55 No.	<u> </u>	12695			Collected By:	" MA			
				WELL	_DATA				
ell Depth (ft bis)	: _	20		***************************************	Time:	16:00		·	
asing Diameter (	ing Diameter (in): Point of Measurement:					70C			
Static Water Level (ft bmp):		15	<u>8.76</u>		GPS:	See )	. 14		
Casing Volume (	(gals):	2	6.8		Elevation:	<u>See</u>	file		
Casing Volumes	(gals):	5	31 7	7mn					
		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		IELD SAM	PLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
6:04	12	12	7.69	269	513	Slight darktu	Rotten eg eg	16:03 pm	
16:08	12	60	7.53	71.3	506	Clear	None		
16:10	12	84	7.50	70.6	50%	( •			
16:13	15	120	7.50	20.7	506	16			
				1	1.				
		Jota	21130	harg	e = 1	194			
						0 1			
				SAMPLE II	NFORMATION				
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
TM-06 MILLER		16:15	Plastic	250 ml	11	EPA 300.0	Non• <del>NO</del> 3-	Filtered	
111001					1		/~		



Project No.	472	0000			Client:	FREEPORT C	opper Queen	Branch		
Phase No.		2.2			Date:	5-22-0	>8			
Well ID:	Tm.	-07	m ja maaruus kuu kalkuu kuu kirrii ilmiiki kuuli kuuli kalkuuli kalkuu ka kalkuu ka ka ka ka ka ka ka ka ka ka		Weather:	clear /wirdx				
ADWR 55 No.	5225	576			Collected By:	ed By: MA				
		n dan Maria da estador aboua com des								
				WELI	DATA					
Well Depth (ft bis	•	350`			Time:	8:32				
Casing Diameter		<u> </u>			Point of Measur	**************************************	sbstructed	as 70°		
Static Water Leve		Olec	A1.		GPS:	See E	le			
		Obstruc NA	HON	M-15-17-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-00-11-	Elevation:	See Fil	<u> </u>			
1 Casing Volume 3 Casing Volume		NA			icievation:	0,0,11				
	- (9).									
			F	IELD SAN	IPLING DATA					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment		
8:46	10	10	6.96	20.1	385	Slight 4an	None	Pumponer \$145		
8:48	Pum	ped D	17							
-										
	ŀ									
				SAMPLEI	NFORMATION					
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment		
TM-0.	7	9:18	Plastic	250 ml	1	EPA 300.0	None <del>NO3</del>	Filtered		
Additional Com	ments:	and described the second second second								
Additional Com	mignita.									
The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s					**************************************					



Project No.	97	720000 Client: FREEPORT Copper Queen Branch								
Phase No.		2.2			Date:	5-14-08				
Well ID:	TM.	-08	SWA	·N	Weather:	clear				
ADWR 55 No.	5	2281	7		Collected By:	MB				
					,					
		An Aleska Mari da Marika eta Ira	i karajansi Baranta satuka				saak hilada aayyeyyaafa il c	tandena makilinik t	Augusta albanin	
		7 1		WELL	_ DATA	٠ هـ				
Well Depth (ft bis	s):	701			Time:	8:10				
Casing Diameter	(in):	<u> </u>	`		Point of Measur	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s	TOC			
Static Water Level (ft bmp): >500' GPS:					GPS:	See file	<u> </u>		PACTE PACTALON NATIONAL SERVICE SERVICE	
1 Casing Volume	(gals):	NA	-		Elevation:	See Gil	e			
3 Casing Volume	s (gals):	NA								
									valitya li kala tila et	
	l a:/	<b></b>	J	IELD SAM	PLING DATA					
Time	Pato   Dischargo   '		Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment			
8:17	8	₹	7.32	20.3	478	cleus	None	Pumpon	9:16	
8:20	n	32	7,59	22.0	480	17	41			
4:25	11	72	7.48	23.9	480	l,	11			
8:30	1	112	7.44	24.3	481	`,	n			
4:35	l)	152	7.44	24,4	480	\ \	h			
		otal d	isch	arge-	192	74				
				SAMPLE IN	IFORMATION					
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Cor	nment	
TM-08:	SWAN	8:40	Plastic	250 ml	1	EPA 300.0	None NOS	Fil	tered	
Additional Comn	nents:	Bees	are q	ll arou	nd				77220048761450145759344244.5V	



Project No. Phase No. Well ID: ADWR No.		В <u>ПОО</u> 2,2 N-15 ,2699			Client:  Date:  Weather:  Collected By:		Queen Bran	ch
Well Depth (ft bls		.32	25		Time:	10:3	5	
Casing Diameter		<u> </u>	<b>*</b>		Point of Measur		NA	
Static Water Leve		obstrue	tel		GPS:			
1 Casing Volume		A/A		vocano de la filmante non essenant del desenancio	Elevation:	See	6:1e	
3 Casing Volume		NA	•	/				
o casing rotatile	- (gaio).	, , ,						
The State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the State of the S	and the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of t		, . <u></u>	IELD SAN	PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
10:41	6	6	7.36	21,2	382	Clear	None	Pumpon of 1040
10:43	6	18	7.65	21.9	375	n	и	
10:45	6	30	7.67	21.9	370	10	17	
10:49	6	54	7.58	22.0	372	1.	17	
10:50	6	60	7.54	2<,	3//		••	
			-					
				SAMPLEIN	NFORMATION	Karanta da k		
Sample	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TM-15	MILLER	10:52	Plastic	250ml	1	EPA 300.0	None	Filtered
Additional Comm	nents:	I w:11 = 59 ga	use pre	wious	ul weasi	re for pu	rge vol.	which



Project No.	- 7	7200	00		Client:	FREEPORT C	opper Queen	Branch
Phase No.	in the second second second second second second second second second second second second second second second	2.2	W.T		Date:	5-22-	08,	
Well ID: WAN	<i>→</i> 5	2257	8		Weather:	Cloudy	1 win	14
ADWR 55 No.	<b>.</b>	TM-	16		Collected By:	mA	l	,
						- Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander Lander		**************************************
				WELL	DATA			
Well Depth (ft bis		115			Time:	12:0		
	,	4"					TUC	
asing Diameter (in):					Point of Measur	sment: See Fil		######################################
itatic Water Level (ft bmp):					GPS:	C- P.	10	
I Casing Volume			0		Elevation:	See tile		
3 Casing Volume	s (gals):	66		TOTAL TRANSPORTED IN THE				
			F	IELD SAM	PLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
12:13	15	15	7,00	21.2	1284	cleur	None	onat 12:12
12:15	11	45	7.08	<b>૨</b> ૦. ૪	1302	1 '	11	
12:18	11	90	7.09	70,6	1321	1.	1)	
15,50	n	120	7.05	20.5	1304	17	11	
							A	
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				SAMPLE II	NFORMATION			
Sampl	e ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TM-16		12:22	Plastic	250 ml	1	EPA 300.0	None NOS	Filtered
A Listing al Comp	o o o to i							
Additional Com	nems.							



Project No.	872	20000	)		Client:	Branch				
Phase No.	2.	S			Date:	5-22-08				
Weil ID:	TM	-19A			Weather:	Cloudy /windy				
ADWR 55 No.	252	2580	-		Collected By:	mn		7		
						,,,	t the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard of the standard			
				WELL	DATA					
Well Depth (ft bis	):	700	0		Time:	10:0	) 2			
Casing Diameter	1,%				Point of Measur		TOC			
Static Water Leve		MA1990	5 190	.,	GPS:	See Fi			The state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the state of the s	
		326		1		See F	<u>'_</u>			
1 Casing Volume		980	۸		Elevation:	JEE F	.16			
3 Casing Volume	s (gals):	100	, ,	Domia				·	er er en en en en en en en en en en en en en	
			F	IELD SAM	PLING DATA					
	Discharge	Total	Hq	Temp	Specific					
Time	Rate (gpm)	Discharge (gallons)	(SU)	(°C)	Conductance (µS/cm)	Color	Odor	Com	ment	
10:08	20	40	7.42	₹o. >	476	Dark Red	None	Premp an	10:06	
10:10	11	80	7.56	21,2	479	Clear	None			
10:15	11	180	7.71	22.0	464	Slight Dark	None			
10:20	10	280	7.40	73.3	501	light Red	None			
10:25	lc	380	7.37	23.6	504	1:ghagrey	None			
10:30	14	480	7.35	23.8	503	Clear	1/			
10:35	10	580	7.34	24.0	505	Clear	1,			
10:40	11	680	7.34	24.1	503	14	111			
10145	14	780	7.35	24.1	503	u	L)			
10:50	16	880	7.36	24.0	501	11	Ŋ			
10:55	11	980	7.36	24.0	501	1.	11			
myly										
				SAMPLE IN	NFORMATION					
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Com	iment	
TM-19	A	10:5%	Plastic	250 ml	1	EPÁ 300.0	None NO3e	Filt	ered	
		10.00								
	7									
Additional Com	ments:									
		4	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s							



Project No.	8720000				Client: Freeport Copper Queen Branch				
ask No.	2.2				Date:	5-22	-08	HOLD HOLD HAVE BEEN AND AND AND AND AND AND AND AND AND AN	
Vell ID:	TM	1-41			Weather:	Clear			
ADWR No.	\$5-5	62555			Collected By:	MA			
				WELI	_ DATA				
Vell Depth (ft b	ls):	210			Time:	9:30			
Casing Diamete		5"			Point of Measure	ement:	TOC		
		L 193.	<del>88</del>		GPS:	60483	8 347	1308	
Static Water Le	~/	NA	00		Elevation:	4770			
Casing Volum		NA			Elevation.	1770	Samme de de esta como esta casa de la PARTA MANTA PORTA ESTA SALVA A COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA COMPANSA EN ESTA EN ESTA COMPANSA EN ESTA EN ESTA COMPANSA EN ESTA EN ESTA COMPANS		
3 Casing Volum	ies (gals):	<i>V</i> 7							
			F	TELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
	·								
		1/0 3	xemple	0					
		100 3	ww.pi	ž į					
				Lacobatomonoca		·			
				SAMPLE II	NFORMATION				
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
			Plastic	250 ml	1	EPA 300.0	None	Filtered	
Additional Con	nments: *	Thol	Sound	ding +	ube is	194.00			
	ample o	wil to		_	Pump				
7-0 0	- <del> </del>	/ 00	100		- Jack State of				



Project No.	8	72000	0		Client:	FREEPORT C		Branch	
Phase No.		2.2			Date:	5-22-08			
Vell ID:	TN	1-42		19 del Paris Halli kanda Salanzanian mana managaran	Weather:	Cloudy	/ Windy	9	
ADWR 55 No.	56	2554			Collected By:	MA	,		
					•	41			
				WELI	_ DATA			n Statutus alkai kan kan kan kan kan kan kan kan kan kan	
Well Depth (ft bis	):	23			Time:	11:17	7		
Casing Diameter	(in):	H	MA 3	5 "	Point of Measure	ement:	Toc		
Static Water Leve	el (ft bmp):	210.	98		GPS:	See Fi	le le		
	sing Volume (gals): 25.5 May 40				Elevation:	See Fi	le le		
	asing Volumes (gals):								
				<u> </u>					
			F	IELD SAN	PLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
1/:23	6	6	6.92	21.2	1296	clear	None	on at 11:22	
11:26	11	24	6.96	21.6	1298	1:	· l		
11:30	6	48	7.02	21.4	1285	11	11		
11:33	6	84	7.04	21.4	1270	10	1/		
11:36	6	108	7.05	21.3	1269	1 *	11		
11:40	0	100	1.03	C/ /	1270				
HILL CONTRACTOR OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF									
		ovelke overeli leda. E		SAMPLE II	NFORMATION				
			Container		No. of	Analysis		0	
Sample ID		Time	Type	Volume	Containers	Method	Preservative	Comment	
TM-42		11:44	Plastic	250 ml	1	EPA 300.0	Nose NOSe	Filtered	
		1	1	i	ı		I	1	



Project No.	87.	2000	0		Client:	FREEPORT C	opper Queen	Branch
Phase No.		2,5			Date:	5-7-0	8	
Well ID:	TVI	236			Weather:	Llear		
ADWR 55 No.	802	236			Collected By:	mn		
			Date of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second seco					
						r, waxaya wasa waxaasiidaa		
				WELI	_ DATA			
Well Depth (ft bis	s):	522	2		Time:	7:45		
Casing Diameter	· (in):	12"			Point of Measur	ement:	TOC	
Static Water Leve	tic Water Level (ft bmp): 173,30		30		GPS:	See file		
1 Casing Volume	Casing Volume (gals): 580				Elevation:	See File See File		
_	i em a		4min					
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
7:50	500	1500	7.18	19.4	498	clear	None	Pumpon@ 7!
7:55	-1 1	4000	7.15	20.3	499	10	.1/	
8:00	11	6500	7.13	20.4	492	de	/ )	
8:05	11	9000	7.13	20.4	494	h	1)	
				SAMPLE II	NFORMATION			
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TVI 2	36	8:08	Plastic	250 ml	1	EPA 300.0	None NO3-	Filtered
Additional Comr	ments:	This	vell ru	ins ev	very even	ing and	had unly	been
off for	a approx	3 hrs P	vior t	o was	er level n	reusure.	. •	



Project No.	8720	2000	)		Client:	FREEPORT Copper Queen Branch					
Phase No.	2	. 2			Date:	5-7-0		23/20/20/20			
Well ID:	_TV1	713	3	u North ann an an an an an an an an an an an an	Weather:	Cleur					
ADWR 55 No.	5	61713		**************************************	Collected By:						
				WELI	L DATA						
Well Depth (ft b					Time:	S-Z-0	8156				
Casing Diamete	·				Point of Measur	ement:	8:56 TOC				
Static Water Le		127.1	'O		GPS:		6 12R 34	68411			
1 Casing Volum					Elevation:	4537					
3 Casing Volum											
						ng nggang kapata takatanat et					
	B:L			IELD SAN	IPLING DATA	1					
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment			
								A.S. 40-12-3-44-3-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4-4			
						·					
				Avenue and the same and the same and the same and the same and the same and the same and the same and the same							
				SAMPLE IN	NFORMATION						
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment			
	-		Plastic	250 ml	1	EPA 300.0	NO3	Filtered			
						<u> </u>					
Additional Com	ments:	This	well	150	apped.	This w	ell is ap	prox.			
	11/2 5	w of	TVIR	375	•						
P. C. C. C. C. C. C. C. C. C. C. C. C. C.	ALCO TO THE OWNER, THE TAXABLE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE PARTY OF THE	CASIONAL CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CON				<u> </u>	940000pcpgp404444444444444444444444444444				



Project No.	77	7700	00		Client:	FREEPORT C	opper Queen	Branch
Phase No.		22			Date:	5-7-	08	
Well ID:	TV.	I 87	75		Weather:	Clear		
ADWR 55 No.	56	887	5	CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR CONTRACTOR	Collected By:	MA		
				WEL	L DATA			
Well Depth (ft bl	s):	330		Single Statements on Flags	Time:	ষ:25		
Casing Diameter	· (in):	611			Point of Measur	ement:	No Acct	255
Static Water Lev		NA			GPS:	See Sil	e le	
1 Casing Volume	e (gals):	NA			Elevation:	See Ri	le	
3 Casing Volume		NA						
				FIELD SAN	IPLING DATA			
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment
8:29	300	500	7,01	21.6	833	Clear	None	Pumpon at 4:28
8:33	2500	2500	7,08	71.2	846	1,	Λ	
8:38	500	5000	7.09	71.3	840	1/	11	
9:43	500	7500	7.09	51.5	833	1,	11	
				,				
			-2					
11.04 71.11.11.11.11.11.11.11.11.11.11.11.11.1								
				SAMPLE II	NFORMATION			
Samp	le ID	Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment
TUI	87 <i>5</i>	8:47	Plastic	250 ml	1	EPA 300.0	403e	Filtered
						`		
Additional Com	ments:							
							- Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Committee of the Comm	
	on Province and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second sec				CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR OF THE CONTRACTOR O			



Project No.	87	2000	9		Client:		Copper Queen B	Branch	
Phase No.		2.2			Date:	5-15-0	9 <u>8</u>		
Vell ID:	u	UEEL	)		Weather:	Clear	_		
ADWR 55 No.	599	1535			Collected By:	MA	NA SANSANIAN NA SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSANIAN SANSA		
	541	1535							
				WEL	L DATA				
Vell Depth (ft bis	s):	30	0		Time:	9:20	)		
Casing Diameter	· (in):	$\mathcal{N}$	H		Point of Measur	ement:	NA		
tatic Water Leve	el (ft bmp):	Non	Pecess		GPS:	See F.	le		
Casing Volume	e (gals):	NA	•		Elevation:	See Rile			
Casing Volumes (gals):									
				FIELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
9:33	NA	NA	7.22	25.7	365	Clear	None		
Samul			Container	Let Madaellett van 400	NFORMATION No. of	Analysis			
Sample ID  WEED  Additional Comments:  at well head a  constant use.		Time	Type	Volume	No. of Containers	Method	Preservative	Comment	
		9:40	Plastic	250 ml	1	EPA 300.0	Noge	Filtered	



## HYDRO GEO CHEM, INC.

## Groundwater Sampling Form

Project No.	87	72000	0		Client:	FREEPORT Copper Queen Branch			
Phase No.		2.2	ALE MOVE TO STREET THE STREET TO STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE STREET THE		Date:	5-7-0	The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon		
Well ID:	WE	ISKO	PF		Weather:	Clear			
ADWR 55 No.	64	11802			Collected By:	MA		[p	
•									
				WELL	- DATA				
		0.40		educates secoluse		15:05			
Well Depth (ft bls	):	200	`		Time:	15:05			
Casing Diameter	asing Diameter (in):				Point of Measur		TOC		
static Water Level (ft bmp): 143.90					GPS:	See File See File			
1 Casing Volume	1 Casing Volume (gals):			Elevation:	See File	?			
3 Casing Volume	s (gals):	247	7						
pergramme and a community of the								g Karamiyo iyo ilka ka darab diba	
		I I		IELD SAW	PLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
15:07	10	.10	6.85	23.3	1024	clear	None	openbil ar 15:06	
15:10	l (	70	6.98	125	957	.,	11		
15:15	11	90	7.08	21.7	1032	٤,	le .		
15,20	17	140	7.08	21.8	1181	11	11		
15:25	1/	190	2.12	21.8	1218		11		
15:30	11	240	7.10	21,8	1251	l c			
			F. 1	-	791				
		total	1.30h	arge 1	52/0	ga).			
								And the second section of the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second	
				SAMPLE IN	IFORMATION				
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
WEISKOPF		15:35	- Plastic	250 ml	1	EPA 300.0	None	Filtered	
Additional Comn	nents:								



Project No.	87:	1000C	)	DOWN THE STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STREET STR	Client:	FREEPORT Copper Queen Branch			
Phase No.	<u> </u>	2			Date:	5-6-08			
Well ID:	_ZAI	VDER			Weather:	clear windy			
ADWR 55 No.	205	126			Collected By:	MA	,		
						common of the region of the common of the co			
				wei	_ DATA				
		200-21		W=U	- VAUA	0120			
Well Depth (ft bis	s):	280,	and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second s		Time:	9:28			
Casing Diameter	asing Diameter (in):				Point of Measur	ement:	70C		
Static Water Level (ft bmp): 145, 33				GPS:	Sedfile				
1 Casing Volume (gals):		197.5	3	-	Elevation:	seefil	le l		
3 Casing Volume		594	4	Omia		pullum processor and the second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon			
	- (3)-			- (()					
				FIELD SAN	IPLING DATA				
Time	Discharge Rate (gpm)	Total Discharge (gallons)	pH (SU)	Temp (°C)	Specific Conductance (µS/cm)	Color	Odor	Comment	
9:32	15	15	7.11	21.9	417	Cleur	None	openhib at 931	
9:35	11	60	7.21	21.5	409	l e	"		
9:40	11	135	7.22	21.4	405	10	11		
9:45	11	210	7.24	21.1	404	1,	11		
9:50	11	285	7.26	21.2	403	l c	11		
10:00	11	435	7.25	21.1	403	1.	11		
10:05	11	510	7.25	21.1	405	10	11		
10:10	1(	585	7.26	21,2	404				
	4	7 11		. 6	10 cal				
		Total D	Irsehan	9 <del>6</del> . C	co gai				
				SAMPLE II	NFORMATION				
Sample ID		Time	Container Type	Volume	No. of Containers	Analysis Method	Preservative	Comment	
ZANDER		10:15	Plastic	250 ml	1	EPA 300.0	Wese	Filtered	
			AND THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPERTY OF THE PROPER	A MANAGEMENT AND A STREET AND A STREET					
Additional Comr	nents:						MANUAL AND AND AND AND AND AND AND AND AND AND		