

Your Project #: FEBRUARY 28, 2012
 Site Location: FARO MINE COMPLEX
 Your C.O.C. #: 08345560

Attention: KEVIN RAMSAY
 DENISON ENVIRONMENTAL SERVICES
 FARO CARE AND MAINTENANCE PROJ
 BOX 280
 FARO, YT
 CANADA Y0B 1K0

Report Date: 2012/03/07

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B217101
Received: 2012/02/29, 13:20

Sample Matrix: Water
 # Samples Received: 3

Analyses	Quantity	Date		Laboratory Method	Analytical Method
		Extracted	Analyzed		
Acidity pH 4.5 & pH 8.3	1	N/A	2012/03/02	BBY6SOP-00037	SM-2310
Alkalinity - Water	3	2012/03/02	2012/03/02	BBY6SOP-00026, BBY0SOP-00002	SM2320B
Chloride by Automated Colourimetry	3	N/A	2012/03/02	BBY6SOP-00011	SM-4500-CI-
Colour (True)	1	N/A	2012/03/01	BBY6SOP-00021	SM-2120B
Carbon (DOC)	1	N/A	2012/03/02	BBY6SOP-00003	SM-5310C
Conductance - water	3	N/A	2012/03/02	BBY6SOP-00026	SM-2510B
Hardness Total (calculated as CaCO ₃)	2	N/A	2012/03/05		
Hardness (calculated as CaCO ₃)	3	N/A	2012/03/05	BBY7SOP-00002	Calculated Parameter
Ion Balance	3	N/A	2012/03/05	Calc	
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	2	N/A	2012/03/05	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (diss.)	1	N/A	2012/03/06	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (dissolved)	3	N/A	2012/03/03	BBY7SOP-00002	EPA 6020A
Na, K, Ca, Mg, S by CRC ICPMS (total)	2	N/A	2012/03/05	BBY7SOP-00002	EPA 6020A
Elements by ICPMS Low Level (total)	2	N/A	2012/03/03	BBY7SOP-00002	EPA 6020A
Ammonia-N	2	N/A	2012/03/01	BBY6SOP-00009	SM-4500NH3G
Nitrate + Nitrite (N)	2	N/A	2012/03/02	BBY6SOP-00010	USEPA 353.2
Nitrite (N) by CFA	2	N/A	2012/03/02	BBY6SOP-00010	EPA 353.2
Nitrogen - Nitrate (as N)	2	N/A	2012/03/02	BBY6SOP-00010	Based on EPA 353.2
Filter and HNO ₃ Preserve for Metals	3	N/A	2012/02/29	BBY6WI-00001	EPA 200.2
pH Water	3	N/A	2012/03/02	BBY6SOP-00026	SM-4500H+B
Sulphate by Automated Colourimetry	3	N/A	2012/03/02	BBY6SOP-00017	SM4500-SO42
Total Dissolved Solids (Filt. Residue)	2	2012/03/05	2012/03/05	BBY6SOP-00033	SM 2540C
Carbon (Total Organic)	1	N/A	2012/03/02	BBY6SOP-00003	SM-5310C
Total Phosphorus	1	N/A	2012/03/02	BBY6SOP-00013	SM 4500 P E
Total Suspended Solids-LowLevel	3	2012/03/05	2012/03/05	BBY6SOP-00034	SM-2540 D

* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

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CERTIFICATE OF ANALYSIS

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Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

TABITHA RUDKIN, Burnaby Project Manager
Email: TRudkin@maxxam.ca
Phone# (604) 638-2639

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Total cover pages: 2

Maxxam Job #: B217101
 Report Date: 2012/03/07

 DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBRUARY 28, 2012
 Site Location: FARO MINE COMPLEX
 Sampler Initials: BB

RESULTS OF CHEMICAL ANALYSES OF WATER

Maxxam ID		CV4167		CV4168	CV4169		
Sampling Date		2012/02/27 10:00		2012/02/27 11:10	2012/02/27 10:45		
COC Number		08345560		08345560	08345560		
	Units	V1	RDL	V25BSP	SRK GD01	RDL	QC Batch
Misc. Inorganics							
Acidity (pH 4.5)	mg/L				<0.5	0.5	5645566
Acidity (pH 8.3)	mg/L				14.8	0.5	5645566
ANIONS							
Nitrite (N)	mg/L	<0.005 (1)	0.005	<0.005 (1)		0.005	5645939
Calculated Parameters							
Filter and HNO3 Preservation	N/A	FIELD	N/A	FIELD	FIELD	N/A	ONSITE
Ion Balance	N/A	NC	0.010	1.0	1.1	0.010	5638632
Nitrate (N)	mg/L	0.121	0.020	0.147		0.020	5636003
Misc. Inorganics							
Dissolved Organic Carbon (C)	mg/L	1.14	0.50			0.50	5646083
Alkalinity (Total as CaCO3)	mg/L	46.0	0.50	74.6	517	0.50	5647832
Total Organic Carbon (C)	mg/L	0.91	0.50			0.50	5646179
Alkalinity (PP as CaCO3)	mg/L	<0.50	0.50	<0.50	<0.50	0.50	5647832
Bicarbonate (HCO3)	mg/L	56.2	0.50	91.0	631	0.50	5647832
Carbonate (CO3)	mg/L	<0.50	0.50	<0.50	<0.50	0.50	5647832
Hydroxide (OH)	mg/L	<0.50	0.50	<0.50	<0.50	0.50	5647832
Anions							
Dissolved Sulphate (SO4)	mg/L	11.1	0.50	492	1640	5.0	5646423
Dissolved Chloride (Cl)	mg/L	<0.5	0.5	0.9	2.6	0.5	5646316
MISCELLANEOUS							
True Colour	Col. Unit			<5		5	5639672
Nutrients							
Ammonia (N)	mg/L	0.023	0.0050	0.032		0.0050	5641579
Nitrate plus Nitrite (N)	mg/L	0.121 (1)	0.020	0.147 (1)		0.020	5645938
Total Phosphorus (P)	mg/L			<0.002		0.002	5647528
Physical Properties							
Conductivity	uS/cm	118	1.0	1070	3220	1.0	5647830
pH	pH Units	7.94		7.98	8.26		5647829
Physical Properties							
Total Suspended Solids	mg/L	<1.0	1.0	<1.0	1.7	1.0	5647880
Total Dissolved Solids	mg/L	64	10	832		10	5649773
RDL = Reportable Detection Limit (1) Sample analysed past recommended hold time							

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 DENISON ENVIRONMENTAL SERVICES
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LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		CV4167		CV4168			CV4169		
Sampling Date		2012/02/27 10:00		2012/02/27 11:10			2012/02/27 10:45		
COC Number		08345560		08345560			08345560		
	Units	V1	QC Batch	V25BSP	RDL	QC Batch	SRK GD01	RDL	QC Batch

Misc. Inorganics									
Dissolved Hardness (CaCO ₃)	mg/L	54.9	5635999	599	0.5	5635999	2390	0.5	5635999
Dissolved Metals by ICPMS									
Dissolved Aluminum (Al)	ug/L	4.6	5641871	3.9	0.2	5641871	6	1	5641871
Dissolved Antimony (Sb)	ug/L	0.04	5641871	0.14	0.02	5641871	1.1	0.1	5641871
Dissolved Arsenic (As)	ug/L	0.29	5641871	0.19	0.02	5641871	9.9	0.1	5641871
Dissolved Barium (Ba)	ug/L	39.9	5641871	25.6	0.02	5641871	30.6	0.1	5641871
Dissolved Beryllium (Be)	ug/L	<0.01	5641871	<0.01	0.01	5641871	<0.05	0.05	5641871
Dissolved Bismuth (Bi)	ug/L	<0.005	5641871	0.007	0.005	5641871	<0.03	0.03	5641871
Dissolved Boron (B)	ug/L	<50	5641871	<50	50	5641871	<300	300	5641871
Dissolved Cadmium (Cd)	ug/L	<0.005	5641871	0.206	0.005	5641871	0.52	0.03	5641871
Dissolved Chromium (Cr)	ug/L	<0.1	5641871	0.1	0.1	5641871	<0.5	0.5	5641871
Dissolved Cobalt (Co)	ug/L	0.020	5641871	0.073 (1)	0.005	5654473	0.82	0.03	5641871
Dissolved Copper (Cu)	ug/L	0.23	5641871	1.61 (1)	0.05	5654473	1.4	0.3	5641871
Dissolved Iron (Fe)	ug/L	3	5641871	8 (1)	1	5654473	11	5	5641871
Dissolved Lead (Pb)	ug/L	0.163	5641871	0.176 (1)	0.005	5654473	1.52	0.03	5641871
Dissolved Lithium (Li)	ug/L	1.5	5641871	8.7	0.5	5641871	32	3	5641871
Dissolved Manganese (Mn)	ug/L	0.17	5641871	5.67 (1)	0.05	5654473	19.0	0.3	5641871
Dissolved Mercury (Hg)	ug/L			<0.01	0.01	5641871			
Dissolved Molybdenum (Mo)	ug/L	0.67	5641871	0.53	0.05	5641871	1.8	0.3	5641871
Dissolved Nickel (Ni)	ug/L	0.19	5641871	1.04 (1)	0.02	5654473	189	0.1	5641871
Dissolved Selenium (Se)	ug/L	0.22	5641871	0.65	0.04	5641871	0.5	0.2	5641871
Dissolved Silicon (Si)	ug/L	5140	5641871	5580	100	5641871	3600	500	5641871
Dissolved Silver (Ag)	ug/L	<0.005	5641871	0.096 (1)	0.005	5654473	<0.03	0.03	5641871
Dissolved Strontium (Sr)	ug/L	83.3	5641871	538	0.05	5641871	1370	0.3	5641871
Dissolved Thallium (Tl)	ug/L	<0.002	5641871	0.024	0.002	5641871	0.21	0.01	5641871
Dissolved Tin (Sn)	ug/L	<0.2	5641871	<0.2	0.2	5641871	<1	1	5641871
Dissolved Titanium (Ti)	ug/L	<0.5	5641871	<0.5	0.5	5641871	<3	3	5641871
Dissolved Uranium (U)	ug/L	1.43	5641871	3.73	0.002	5641871	62.9	0.01	5641871
Dissolved Vanadium (V)	ug/L	0.2	5641871	<0.2	0.2	5641871	<1	1	5641871
Dissolved Zinc (Zn)	ug/L	1.4	5641871	90.5	0.1	5641871	1070	0.5	5641871
Dissolved Zirconium (Zr)	ug/L	<0.1	5641871	<0.1	0.1	5641871	0.6	0.5	5641871
Dissolved Calcium (Ca)	mg/L	17.5	5636742	181	0.05	5649877	362	0.3	5636742

 RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

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LOW LEVEL DISSOLVED METALS IN WATER (WATER)

Maxxam ID		CV4167		CV4168			CV4169		
Sampling Date		2012/02/27 10:00		2012/02/27 11:10			2012/02/27 10:45		
COC Number		08345560		08345560			08345560		
	Units	V1	QC Batch	V25BSP	RDL	QC Batch	SRK GD01	RDL	QC Batch

Dissolved Magnesium (Mg)	mg/L	2.76	5636742	35.9	0.05	5649877	361	0.3	5636742
Dissolved Potassium (K)	mg/L	0.60	5636742	2.46 (1)	0.05	5649877	7.7	0.3	5636742
Dissolved Sodium (Na)	mg/L	2.17	5636742	7.39	0.05	5649877	12.6	0.3	5636742
Dissolved Sulphur (S)	mg/L	<10	5636742	197	10	5649877	615	50	5636742

RDL = Reportable Detection Limit
 (1) Dissolved greater than total. Reanalysis yields similar results

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DENISON ENVIRONMENTAL SERVICES
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LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		CV4167	CV4168		
Sampling Date		2012/02/27 10:00	2012/02/27 11:10		
COC Number		08345560	08345560		
	Units	V1	V25BSP	RDL	QC Batch

Calculated Parameters					
Total Hardness (CaCO3)	mg/L	54.1	586	0.50	5635998
Total Metals by ICPMS					
Total Aluminum (Al)	ug/L	7.6	3.6	0.2	5642349
Total Antimony (Sb)	ug/L	0.04	0.12	0.02	5642349
Total Arsenic (As)	ug/L	0.28	0.19	0.02	5642349
Total Barium (Ba)	ug/L	41.2	26.3	0.02	5642349
Total Beryllium (Be)	ug/L	<0.01	<0.01	0.01	5642349
Total Bismuth (Bi)	ug/L	<0.005	<0.005	0.005	5642349
Total Boron (B)	ug/L	<50	<50	50	5642349
Total Cadmium (Cd)	ug/L	0.010	0.204	0.005	5642349
Total Chromium (Cr)	ug/L	<0.1	<0.1	0.1	5642349
Total Cobalt (Co)	ug/L	0.018	0.017	0.005	5642349
Total Copper (Cu)	ug/L	0.33	1.22	0.05	5642349
Total Iron (Fe)	ug/L	15	3	1	5642349
Total Lead (Pb)	ug/L	0.565	0.032	0.005	5642349
Total Lithium (Li)	ug/L	1.4	8.7	0.5	5642349
Total Manganese (Mn)	ug/L	0.65	1.59	0.05	5642349
Total Mercury (Hg)	ug/L		<0.01	0.01	5642349
Total Molybdenum (Mo)	ug/L	0.62	0.54	0.05	5642349
Total Nickel (Ni)	ug/L	0.27	0.73	0.02	5642349
Total Selenium (Se)	ug/L	0.22	0.65	0.04	5642349
Total Silicon (Si)	ug/L	4930	5600	100	5642349
Total Silver (Ag)	ug/L	<0.005	<0.005	0.005	5642349
Total Strontium (Sr)	ug/L	81.9	543	0.05	5642349
Total Thallium (Tl)	ug/L	<0.002	0.022	0.002	5642349
Total Tin (Sn)	ug/L	<0.2	<0.2	0.2	5642349
Total Titanium (Ti)	ug/L	<0.5	<0.5	0.5	5642349
Total Uranium (U)	ug/L	1.36	3.52	0.002	5642349
Total Vanadium (V)	ug/L	<0.2	<0.2	0.2	5642349
Total Zinc (Zn)	ug/L	2.8	82.3	0.1	5642349
Total Zirconium (Zr)	ug/L	<0.1	<0.1	0.1	5642349
Total Calcium (Ca)	mg/L	17.0	179	0.05	5636028

RDL = Reportable Detection Limit

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DENISON ENVIRONMENTAL SERVICES
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 Sampler Initials: BB

LOW LEVEL TOTAL METALS IN WATER (WATER)

Maxxam ID		CV4167	CV4168		
Sampling Date		2012/02/27 10:00	2012/02/27 11:10		
COC Number		08345560	08345560		
	Units	V1	V25BSP	RDL	QC Batch

Total Magnesium (Mg)	mg/L	2.87	34.0	0.05	5636028
Total Potassium (K)	mg/L	0.64	1.74	0.05	5636028
Total Sodium (Na)	mg/L	2.20	6.83	0.05	5636028
Total Sulphur (S)	mg/L	<10	195	10	5636028

RDL = Reportable Detection Limit

Maxxam Job #: B217101
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DENISON ENVIRONMENTAL SERVICES
Client Project #: FEBRUARY 28, 2012
Site Location: FARO MINE COMPLEX
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General Comments

Sample CV4167-01: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

Sample CV4168, Elements by ICPMS Low Level (dissolved): Test repeated.

LOW LEVEL DISSOLVED METALS IN WATER (WATER) Comments

Sample CV4169-03 Elements by ICPMS Low Level (dissolved): RDL raised due to sample matrix interference.

Results relate only to the items tested.

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 28, 2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report
 Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5639672 NS6	Method Blank	True Colour	2012/03/01	<5		Col. Unit	
	RPD [CV4168-02]	True Colour	2012/03/01	NC		%	20
5641579 CK	Matrix Spike	Ammonia (N)	2012/03/01		102	%	80 - 120
	Spiked Blank	Ammonia (N)	2012/03/01		102	%	80 - 120
	Method Blank	Ammonia (N)	2012/03/01	<0.0050		mg/L	
	RPD	Ammonia (N)	2012/03/01	NC		%	20
5641871 AA1	Matrix Spike	Dissolved Aluminum (Al)	2012/03/03		NC	%	80 - 120
		Dissolved Antimony (Sb)	2012/03/03		112	%	80 - 120
		Dissolved Arsenic (As)	2012/03/03		105	%	80 - 120
		Dissolved Barium (Ba)	2012/03/03		107	%	80 - 120
		Dissolved Beryllium (Be)	2012/03/03		105	%	80 - 120
		Dissolved Bismuth (Bi)	2012/03/03		103	%	80 - 120
		Dissolved Cadmium (Cd)	2012/03/03		108	%	80 - 120
		Dissolved Chromium (Cr)	2012/03/03		102	%	80 - 120
		Dissolved Cobalt (Co)	2012/03/03		99	%	80 - 120
		Dissolved Copper (Cu)	2012/03/03		98	%	80 - 120
		Dissolved Iron (Fe)	2012/03/03		104	%	80 - 120
		Dissolved Lead (Pb)	2012/03/03		104	%	80 - 120
		Dissolved Lithium (Li)	2012/03/03		101	%	80 - 120
		Dissolved Manganese (Mn)	2012/03/03		NC	%	80 - 120
		Dissolved Mercury (Hg)	2012/03/03		105	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/03/03		NC	%	80 - 120
		Dissolved Nickel (Ni)	2012/03/03		100	%	80 - 120
		Dissolved Selenium (Se)	2012/03/03		116	%	80 - 120
		Dissolved Silver (Ag)	2012/03/03		110	%	80 - 120
		Dissolved Strontium (Sr)	2012/03/03		NC	%	80 - 120
		Dissolved Thallium (Tl)	2012/03/03		109	%	80 - 120
		Dissolved Tin (Sn)	2012/03/03		106	%	80 - 120
		Dissolved Titanium (Ti)	2012/03/03		98	%	80 - 120
		Dissolved Uranium (U)	2012/03/03		108	%	80 - 120
		Dissolved Vanadium (V)	2012/03/03		103	%	80 - 120
		Dissolved Zinc (Zn)	2012/03/03		108	%	80 - 120
	Spiked Blank	Dissolved Aluminum (Al)	2012/03/03		106	%	80 - 120
		Dissolved Antimony (Sb)	2012/03/03		107	%	80 - 120
		Dissolved Arsenic (As)	2012/03/03		100	%	80 - 120
		Dissolved Barium (Ba)	2012/03/03		109	%	80 - 120
		Dissolved Beryllium (Be)	2012/03/03		98	%	80 - 120
		Dissolved Bismuth (Bi)	2012/03/03		104	%	80 - 120
		Dissolved Cadmium (Cd)	2012/03/03		102	%	80 - 120
		Dissolved Chromium (Cr)	2012/03/03		100	%	80 - 120
		Dissolved Cobalt (Co)	2012/03/03		101	%	80 - 120
		Dissolved Copper (Cu)	2012/03/03		99	%	80 - 120
		Dissolved Iron (Fe)	2012/03/03		110	%	80 - 120
		Dissolved Lead (Pb)	2012/03/03		103	%	80 - 120
		Dissolved Lithium (Li)	2012/03/03		104	%	80 - 120
		Dissolved Manganese (Mn)	2012/03/03		100	%	80 - 120
		Dissolved Mercury (Hg)	2012/03/03		98	%	80 - 120
		Dissolved Molybdenum (Mo)	2012/03/03		106	%	80 - 120
		Dissolved Nickel (Ni)	2012/03/03		102	%	80 - 120
		Dissolved Selenium (Se)	2012/03/03		108	%	80 - 120
		Dissolved Silver (Ag)	2012/03/03		110	%	80 - 120
		Dissolved Strontium (Sr)	2012/03/03		105	%	80 - 120
		Dissolved Thallium (Tl)	2012/03/03		107	%	80 - 120
		Dissolved Tin (Sn)	2012/03/03		102	%	80 - 120
		Dissolved Titanium (Ti)	2012/03/03		106	%	80 - 120

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
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 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits		
5641871 AA1	Spiked Blank	Dissolved Uranium (U)	2012/03/03		106	%	80 - 120		
		Dissolved Vanadium (V)	2012/03/03		101	%	80 - 120		
		Dissolved Zinc (Zn)	2012/03/03		109	%	80 - 120		
Method Blank	Method Blank	Dissolved Aluminum (Al)	2012/03/03	0.3, RDL=0.2		ug/L			
		Dissolved Antimony (Sb)	2012/03/03	<0.02		ug/L			
		Dissolved Arsenic (As)	2012/03/03	<0.02		ug/L			
		Dissolved Barium (Ba)	2012/03/03	<0.02		ug/L			
		Dissolved Beryllium (Be)	2012/03/03	<0.01		ug/L			
		Dissolved Bismuth (Bi)	2012/03/03	<0.005		ug/L			
		Dissolved Boron (B)	2012/03/03	<50		ug/L			
		Dissolved Cadmium (Cd)	2012/03/03	<0.005		ug/L			
		Dissolved Chromium (Cr)	2012/03/03	<0.1		ug/L			
		Dissolved Cobalt (Co)	2012/03/03	<0.005		ug/L			
		Dissolved Copper (Cu)	2012/03/03	<0.05		ug/L			
		Dissolved Iron (Fe)	2012/03/03	<1		ug/L			
		Dissolved Lead (Pb)	2012/03/03	<0.005		ug/L			
		Dissolved Lithium (Li)	2012/03/03	<0.5		ug/L			
		Dissolved Manganese (Mn)	2012/03/03	<0.05		ug/L			
		Dissolved Mercury (Hg)	2012/03/03	<0.01		ug/L			
		Dissolved Molybdenum (Mo)	2012/03/03	<0.05		ug/L			
		Dissolved Nickel (Ni)	2012/03/03	<0.02		ug/L			
		Dissolved Selenium (Se)	2012/03/03	<0.04		ug/L			
		Dissolved Silicon (Si)	2012/03/03	<100		ug/L			
		Dissolved Silver (Ag)	2012/03/03	<0.005		ug/L			
		Dissolved Strontium (Sr)	2012/03/03	<0.05		ug/L			
		Dissolved Thallium (Tl)	2012/03/03	<0.002		ug/L			
		Dissolved Tin (Sn)	2012/03/03	<0.2		ug/L			
		Dissolved Titanium (Ti)	2012/03/03	<0.5		ug/L			
		Dissolved Uranium (U)	2012/03/03	<0.002		ug/L			
		Dissolved Vanadium (V)	2012/03/03	<0.2		ug/L			
		Dissolved Zinc (Zn)	2012/03/03	<0.1		ug/L			
		Dissolved Zirconium (Zr)	2012/03/03	<0.1		ug/L			
		RPD	RPD	Dissolved Aluminum (Al)	2012/03/03	2.5		%	20
				Dissolved Antimony (Sb)	2012/03/03	3.4		%	20
				Dissolved Arsenic (As)	2012/03/03	0.9		%	20
				Dissolved Barium (Ba)	2012/03/03	0.5		%	20
Dissolved Beryllium (Be)	2012/03/03			NC		%	20		
Dissolved Bismuth (Bi)	2012/03/03			NC		%	20		
Dissolved Boron (B)	2012/03/03			NC		%	20		
Dissolved Cadmium (Cd)	2012/03/03			NC		%	20		
Dissolved Chromium (Cr)	2012/03/03			NC		%	20		
Dissolved Cobalt (Co)	2012/03/03			10.5		%	20		
Dissolved Copper (Cu)	2012/03/03			2.1		%	20		
Dissolved Iron (Fe)	2012/03/03			0.3		%	20		
Dissolved Lead (Pb)	2012/03/03			NC		%	20		
Dissolved Lithium (Li)	2012/03/03			0.9		%	20		
Dissolved Manganese (Mn)	2012/03/03			3.4		%	20		
Dissolved Molybdenum (Mo)	2012/03/03			2.9		%	20		
Dissolved Nickel (Ni)	2012/03/03			NC		%	20		
Dissolved Selenium (Se)	2012/03/03			NC		%	20		
Dissolved Silicon (Si)	2012/03/03			2.0		%	20		
Dissolved Silver (Ag)	2012/03/03			NC		%	20		
Dissolved Strontium (Sr)	2012/03/03			1.7		%	20		
Dissolved Thallium (Tl)	2012/03/03			9.3		%	20		
Dissolved Tin (Sn)	2012/03/03			NC		%	20		

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 28, 2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits	
5641871 AA1	RPD	Dissolved Titanium (Ti)	2012/03/03	NC		%	20	
		Dissolved Uranium (U)	2012/03/03	1.5		%	20	
		Dissolved Vanadium (V)	2012/03/03	2.7		%	20	
		Dissolved Zinc (Zn)	2012/03/03	1.7		%	20	
		Dissolved Zirconium (Zr)	2012/03/03	NC		%	20	
5642349 AA1	Matrix Spike	Total Aluminum (Al)	2012/03/03		103	%	80 - 120	
		Total Antimony (Sb)	2012/03/03		104	%	80 - 120	
		Total Arsenic (As)	2012/03/03		105	%	80 - 120	
		Total Barium (Ba)	2012/03/03		112	%	80 - 120	
		Total Beryllium (Be)	2012/03/03		102	%	80 - 120	
		Total Bismuth (Bi)	2012/03/03		71 (f)	%	80 - 120	
		Total Cadmium (Cd)	2012/03/03		102	%	80 - 120	
		Total Chromium (Cr)	2012/03/03		99	%	80 - 120	
		Total Cobalt (Co)	2012/03/03		98	%	80 - 120	
		Total Copper (Cu)	2012/03/03		98	%	80 - 120	
		Total Iron (Fe)	2012/03/03		106	%	80 - 120	
		Total Lead (Pb)	2012/03/03		104	%	80 - 120	
		Total Lithium (Li)	2012/03/03		104	%	80 - 120	
		Total Manganese (Mn)	2012/03/03		105	%	80 - 120	
		Total Mercury (Hg)	2012/03/03		102	%	80 - 120	
		Total Molybdenum (Mo)	2012/03/03		94	%	80 - 120	
		Total Nickel (Ni)	2012/03/03		100	%	80 - 120	
		Total Selenium (Se)	2012/03/03		110	%	80 - 120	
		Total Silver (Ag)	2012/03/03		104	%	80 - 120	
		Total Strontium (Sr)	2012/03/03		107	%	80 - 120	
		Total Thallium (Tl)	2012/03/03		108	%	80 - 120	
		Total Tin (Sn)	2012/03/03		100	%	80 - 120	
		Total Titanium (Ti)	2012/03/03		101	%	80 - 120	
		Total Uranium (U)	2012/03/03		103	%	80 - 120	
		Total Vanadium (V)	2012/03/03		99	%	80 - 120	
		Total Zinc (Zn)	2012/03/03		115	%	80 - 120	
		Spiked Blank	Total Aluminum (Al)	2012/03/03		103	%	80 - 120
			Total Antimony (Sb)	2012/03/03		107	%	80 - 120
			Total Arsenic (As)	2012/03/03		99	%	80 - 120
			Total Barium (Ba)	2012/03/03		111	%	80 - 120
			Total Beryllium (Be)	2012/03/03		97	%	80 - 120
			Total Bismuth (Bi)	2012/03/03		98	%	80 - 120
			Total Cadmium (Cd)	2012/03/03		100	%	80 - 120
			Total Chromium (Cr)	2012/03/03		99	%	80 - 120
Total Cobalt (Co)	2012/03/03			96	%	80 - 120		
Total Copper (Cu)	2012/03/03			98	%	80 - 120		
Total Iron (Fe)	2012/03/03			108	%	80 - 120		
Total Lead (Pb)	2012/03/03			103	%	80 - 120		
Total Lithium (Li)	2012/03/03			101	%	80 - 120		
Total Manganese (Mn)	2012/03/03			101	%	80 - 120		
Total Mercury (Hg)	2012/03/03			93	%	80 - 120		
Total Molybdenum (Mo)	2012/03/03			102	%	80 - 120		
Total Nickel (Ni)	2012/03/03			101	%	80 - 120		
Total Selenium (Se)	2012/03/03			103	%	80 - 120		
Total Silver (Ag)	2012/03/03			107	%	80 - 120		
Total Strontium (Sr)	2012/03/03			107	%	80 - 120		
Total Thallium (Tl)	2012/03/03			107	%	80 - 120		
Total Tin (Sn)	2012/03/03			102	%	80 - 120		
Total Titanium (Ti)	2012/03/03			104	%	80 - 120		
Total Uranium (U)	2012/03/03			105	%	80 - 120		

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBRUARY 28, 2012
 P.O. #:
 Site Location: FARO MINE COMPLEX

Quality Assurance Report (Continued)

Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5642349 AA1	Spiked Blank	Total Vanadium (V)	2012/03/03		99	%	80 - 120
		Total Zinc (Zn)	2012/03/03		101	%	80 - 120
	Method Blank	Total Aluminum (Al)	2012/03/03	<0.2		ug/L	
		Total Antimony (Sb)	2012/03/03	<0.02		ug/L	
		Total Arsenic (As)	2012/03/03	<0.02		ug/L	
		Total Barium (Ba)	2012/03/03	<0.02		ug/L	
		Total Beryllium (Be)	2012/03/03	<0.01		ug/L	
		Total Bismuth (Bi)	2012/03/03	<0.005		ug/L	
		Total Boron (B)	2012/03/03	<50		ug/L	
		Total Cadmium (Cd)	2012/03/03	<0.005		ug/L	
		Total Chromium (Cr)	2012/03/03	<0.1		ug/L	
		Total Cobalt (Co)	2012/03/03	<0.005		ug/L	
		Total Copper (Cu)	2012/03/03	<0.05		ug/L	
		Total Iron (Fe)	2012/03/03	<1		ug/L	
		Total Lead (Pb)	2012/03/03	<0.005		ug/L	
		Total Lithium (Li)	2012/03/03	<0.5		ug/L	
		Total Manganese (Mn)	2012/03/03	<0.05		ug/L	
		Total Mercury (Hg)	2012/03/03	<0.01		ug/L	
		Total Molybdenum (Mo)	2012/03/03	<0.05		ug/L	
		Total Nickel (Ni)	2012/03/03	<0.02		ug/L	
		Total Selenium (Se)	2012/03/03	<0.04		ug/L	
		Total Silicon (Si)	2012/03/03	<100		ug/L	
		Total Silver (Ag)	2012/03/03	<0.005		ug/L	
		Total Strontium (Sr)	2012/03/03	<0.05		ug/L	
		Total Thallium (Tl)	2012/03/03	<0.002		ug/L	
		Total Tin (Sn)	2012/03/03	<0.2		ug/L	
		Total Titanium (Ti)	2012/03/03	<0.5		ug/L	
		Total Uranium (U)	2012/03/03	<0.002		ug/L	
		Total Vanadium (V)	2012/03/03	<0.2		ug/L	
	Total Zinc (Zn)	2012/03/03	0.2, RDL=0.1		ug/L		
	Total Zirconium (Zr)	2012/03/03	<0.1		ug/L		
	RPD	Total Aluminum (Al)	2012/03/03	NC		%	20
		Total Antimony (Sb)	2012/03/03	NC		%	20
		Total Arsenic (As)	2012/03/03	NC		%	20
		Total Barium (Ba)	2012/03/03	NC		%	20
		Total Beryllium (Be)	2012/03/03	NC		%	20
		Total Bismuth (Bi)	2012/03/03	NC		%	20
		Total Boron (B)	2012/03/03	NC		%	20
		Total Cadmium (Cd)	2012/03/03	NC		%	20
		Total Chromium (Cr)	2012/03/03	NC		%	20
		Total Cobalt (Co)	2012/03/03	NC		%	20
		Total Copper (Cu)	2012/03/03	NC		%	20
		Total Iron (Fe)	2012/03/03	NC		%	20
		Total Lead (Pb)	2012/03/03	NC		%	20
		Total Lithium (Li)	2012/03/03	NC		%	20
		Total Manganese (Mn)	2012/03/03	NC		%	20
		Total Molybdenum (Mo)	2012/03/03	NC		%	20
		Total Nickel (Ni)	2012/03/03	NC		%	20
		Total Selenium (Se)	2012/03/03	NC		%	20
	Total Silicon (Si)	2012/03/03	NC		%	20	
	Total Silver (Ag)	2012/03/03	NC		%	20	
	Total Strontium (Sr)	2012/03/03	NC		%	20	
	Total Thallium (Tl)	2012/03/03	NC		%	20	
	Total Tin (Sn)	2012/03/03	NC		%	20	
	Total Titanium (Ti)	2012/03/03	NC		%	20	

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
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Quality Assurance Report (Continued)

Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5642349 AA1	RPD	Total Uranium (U)	2012/03/03	NC		%	20
		Total Vanadium (V)	2012/03/03	NC		%	20
		Total Zinc (Zn)	2012/03/03	NC		%	20
		Total Zirconium (Zr)	2012/03/03	NC		%	20
5645566 WAY	Spiked Blank	Acidity (pH 8.3)	2012/03/02		103	%	80 - 120
	Method Blank	Acidity (pH 4.5)	2012/03/02	<0.5		mg/L	
		Acidity (pH 8.3)	2012/03/02	<0.5		mg/L	
	RPD	Acidity (pH 8.3)	2012/03/02	NC		%	20
5645938 TL2	Matrix Spike	Nitrate plus Nitrite (N)	2012/03/02		104	%	80 - 120
	Spiked Blank	Nitrate plus Nitrite (N)	2012/03/02		110	%	80 - 120
	Method Blank	Nitrate plus Nitrite (N)	2012/03/02	<0.020		mg/L	
	RPD [CV4168-02]	Nitrate plus Nitrite (N)	2012/03/02	1.9		%	25
5645939 TL2	Matrix Spike	Nitrite (N)	2012/03/02		88	%	80 - 120
	Spiked Blank	Nitrite (N)	2012/03/02		102	%	80 - 120
	Method Blank	Nitrite (N)	2012/03/02	<0.005		mg/L	
	RPD [CV4168-02]	Nitrite (N)	2012/03/02	NC		%	20
5646083 IC4	Matrix Spike	Dissolved Organic Carbon (C)	2012/03/02		NC	%	80 - 120
	Spiked Blank	Dissolved Organic Carbon (C)	2012/03/02		109	%	80 - 120
	Method Blank	Dissolved Organic Carbon (C)	2012/03/02	<0.50		mg/L	
	RPD	Dissolved Organic Carbon (C)	2012/03/02	0.2		%	20
5646179 IC4	Matrix Spike	Total Organic Carbon (C)	2012/03/02		106	%	80 - 120
	Spiked Blank	Total Organic Carbon (C)	2012/03/02		111	%	80 - 120
	Method Blank	Total Organic Carbon (C)	2012/03/02	<0.50		mg/L	
	RPD	Total Organic Carbon (C)	2012/03/02	3.2		%	20
5646316 BB3	Matrix Spike	Dissolved Chloride (Cl)	2012/03/02		97	%	80 - 120
	Spiked Blank	Dissolved Chloride (Cl)	2012/03/02		102	%	80 - 120
	Method Blank	Dissolved Chloride (Cl)	2012/03/02	<0.5		mg/L	
	RPD	Dissolved Chloride (Cl)	2012/03/02	4.4		%	20
5646423 BB3	Matrix Spike	Dissolved Sulphate (SO4)	2012/03/02		104	%	80 - 120
	Spiked Blank	Dissolved Sulphate (SO4)	2012/03/02		97	%	80 - 120
	Method Blank	Dissolved Sulphate (SO4)	2012/03/02	<0.50		mg/L	
	RPD	Dissolved Sulphate (SO4)	2012/03/02	NC		%	20
5647528 SF1	Matrix Spike	Total Phosphorus (P)	2012/03/02		NC	%	80 - 120
	Spiked Blank	Total Phosphorus (P)	2012/03/02		97	%	80 - 120
	Method Blank	Total Phosphorus (P)	2012/03/02	<0.002		mg/L	
	RPD	Total Phosphorus (P)	2012/03/02	7.7		%	20
5647830 MM3	Spiked Blank	Conductivity	2012/03/02		101	%	80 - 120
	Method Blank	Conductivity	2012/03/02	<1.0		uS/cm	
	RPD	Conductivity	2012/03/02	0.07		%	20
5647832 MM3	Matrix Spike	Alkalinity (Total as CaCO3)	2012/03/02		NC	%	80 - 120
	Spiked Blank	Alkalinity (Total as CaCO3)	2012/03/02		103	%	80 - 120
	Method Blank	Alkalinity (Total as CaCO3)	2012/03/02	<0.50		mg/L	
		Alkalinity (PP as CaCO3)	2012/03/02	<0.50		mg/L	
		Bicarbonate (HCO3)	2012/03/02	<0.50		mg/L	
		Carbonate (CO3)	2012/03/02	<0.50		mg/L	
		Hydroxide (OH)	2012/03/02	<0.50		mg/L	
	RPD	Alkalinity (Total as CaCO3)	2012/03/02	4.6		%	20
		Alkalinity (PP as CaCO3)	2012/03/02	NC		%	20
		Bicarbonate (HCO3)	2012/03/02	4.6		%	20
		Carbonate (CO3)	2012/03/02	NC		%	20
		Hydroxide (OH)	2012/03/02	NC		%	20
5647880 TM8	Spiked Blank	Total Suspended Solids	2012/03/05		100	%	80 - 120
	Method Blank	Total Suspended Solids	2012/03/05	<1.0		mg/L	
5649773 TM8	Matrix Spike	Total Dissolved Solids	2012/03/05		NC	%	80 - 120
	Spiked Blank	Total Dissolved Solids	2012/03/05		94	%	80 - 120

DENISON ENVIRONMENTAL SERVICES
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Quality Assurance Report (Continued)

Maxxam Job Number: VB217101

QA/QC Batch	QC Type	Parameter	Date Analyzed yyyy/mm/dd	Value	Recovery	Units	QC Limits
5649773	TM8	Method Blank					
		Total Dissolved Solids	2012/03/05	<10		mg/L	
		RPD	2012/03/05	6.9		%	20
5654473	AA1	Spiked Blank					
		Dissolved Cobalt (Co)			TBA	%	80 - 120
		Dissolved Copper (Cu)			TBA	%	80 - 120
		Dissolved Iron (Fe)			TBA	%	80 - 120
		Dissolved Lead (Pb)			TBA	%	80 - 120
		Dissolved Manganese (Mn)			TBA	%	80 - 120
		Dissolved Nickel (Ni)			TBA	%	80 - 120
		Dissolved Silver (Ag)			TBA	%	80 - 120
		Method Blank					
		Dissolved Cobalt (Co)	2012/03/06	<0.005		ug/L	
		Dissolved Copper (Cu)	2012/03/06	<0.05		ug/L	
		Dissolved Iron (Fe)	2012/03/06	<1		ug/L	
		Dissolved Lead (Pb)	2012/03/06	<0.005		ug/L	
		Dissolved Manganese (Mn)	2012/03/06	<0.05		ug/L	
		Dissolved Nickel (Ni)	2012/03/06	<0.02		ug/L	
		Dissolved Silver (Ag)	2012/03/06	<0.005		ug/L	

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix to which a known amount of the analyte has been added. Used to evaluate analyte recovery.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was not sufficiently significant to permit a reliable recovery calculation.

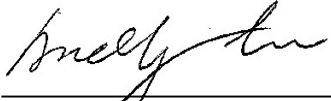
NC (RPD): The RPD was not calculated. The level of analyte detected in the parent sample and its duplicate was not sufficiently significant to permit a reliable calculation.

(1) Matrix Spike outside acceptance criteria (10% of analytes failure allowed).

Validation Signature Page

Maxxam Job #: B217101

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



ANDY LU, Data Validation Coordinator

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

