

Your Project #: FEBUARY 16, 20 & 21, 2012
 Your C.O.C. #: 08345441

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

Report Date: 2012/03/02

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B214923
Received: 2012/02/22, 14:55

Sample Matrix: Seepage
 # Samples Received: 2

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|---|----------|------------|------------|---------------------------------|----------------------|
| | | Extracted | Analyzed | | |
| Acidity pH 4.5 & pH 8.3 | 2 | N/A | 2012/02/23 | BBY6SOP-00037 | SM-2310 |
| Alkalinity - Water | 2 | 2012/02/23 | 2012/02/23 | BBY6SOP-00026, BBY0SOP-00002 | SM2320B |
| Chloride by Automated Colourimetry | 1 | N/A | 2012/02/23 | BBY6SOP-00011 | SM-4500-CI- |
| Chloride by Automated Colourimetry | 1 | N/A | 2012/02/24 | BBY6SOP-00011 | SM-4500-CI- |
| Conductance - water | 2 | N/A | 2012/02/23 | BBY6SOP-00026 | SM-2510B |
| Hardness (calculated as CaCO ₃) | 2 | N/A | 2012/02/27 | BBY7SOP-00002 | Calculated Parameter |
| Ion Balance | 2 | N/A | 2012/02/28 | Calc | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 2 | N/A | 2012/02/27 | BBY7SOP-00002 | EPA 200.8 |
| Elements by CRC ICPMS (dissolved) | 2 | N/A | 2012/02/25 | BBY7SOP-00002 | EPA 6020A |
| Filter and HNO ₃ Preserve for Metals | 2 | N/A | 2012/02/22 | BBY6WI-00001 | EPA 200.2 |
| pH Water | 2 | N/A | 2012/02/23 | BBY6SOP-00026 | SM-4500H+B |
| Sulphate by Automated Colourimetry | 1 | N/A | 2012/02/23 | BBY6SOP-00017 | SM4500-SO42 |
| Sulphate by Automated Colourimetry | 1 | N/A | 2012/02/24 | BBY6SOP-00017 | SM4500-SO42 |
| Total Suspended Solids-LowLevel | 2 | 2012/02/23 | 2012/02/24 | BBY6SOP-00034 | SM-2540 D |

Sample Matrix: Surface
 # Samples Received: 5

| Analyses | Quantity | Date | | Laboratory Method | Analytical Method |
|---|----------|------------|------------|---------------------------------|----------------------|
| | | Extracted | Analyzed | | |
| Alkalinity - Water | 5 | 2012/02/23 | 2012/02/23 | BBY6SOP-00026, BBY0SOP-00002 | SM2320B |
| Chloride by Automated Colourimetry | 2 | N/A | 2012/02/23 | BBY6SOP-00011 | SM-4500-CI- |
| Chloride by Automated Colourimetry | 3 | N/A | 2012/02/24 | BBY6SOP-00011 | SM-4500-CI- |
| Carbon (DOC) | 5 | N/A | 2012/02/24 | BBY6SOP-00003 | SM-5310C |
| Conductance - water | 5 | N/A | 2012/02/23 | BBY6SOP-00026 | SM-2510B |
| Hardness Total (calculated as CaCO ₃) | 5 | N/A | 2012/02/29 | | |
| Hardness (calculated as CaCO ₃) | 5 | N/A | 2012/02/28 | BBY7SOP-00002 | Calculated Parameter |
| Ion Balance | 5 | N/A | 2012/02/28 | Calc | |
| Na, K, Ca, Mg, S by CRC ICPMS (diss.) | 5 | N/A | 2012/02/28 | BBY7SOP-00002 | EPA 6020A |
| Elements by ICPMS Low Level (dissolved) | 4 | N/A | 2012/02/27 | BBY7SOP-00002 | EPA 6020A |
| Elements by ICPMS Low Level (dissolved) | 1 | N/A | 2012/02/28 | BBY7SOP-00002 | EPA 6020A |
| Na, K, Ca, Mg, S by CRC ICPMS (total) | 5 | N/A | 2012/02/29 | BBY7SOP-00002 | EPA 6020A |
| Elements by ICPMS Low Level (total) | 5 | N/A | 2012/02/28 | BBY7SOP-00002 | EPA 6020A |
| Ammonia-N | 5 | N/A | 2012/02/23 | BBY6SOP-00009 | SM-4500NH3G |

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CERTIFICATE OF ANALYSIS

-2-

Sample Matrix: Surface
 # Samples Received: 5

| Analyses | Quantity | Date Extracted | Date Analyzed | Laboratory Method | Analytical Method |
|--|----------|-------------------|------------------|-------------------|--------------------|
| Nitrate + Nitrite (N) | 2 | N/A | 2012/02/23 | BBY6SOP-00010 | USEPA 353.2 |
| Nitrate + Nitrite (N) | 3 | N/A | 2012/02/24 | BBY6SOP-00010 | USEPA 353.2 |
| Nitrite (N) by CFA | 2 | N/A | 2012/02/23 | BBY6SOP-00010 | EPA 353.2 |
| Nitrite (N) by CFA | 3 | N/A | 2012/02/24 | BBY6SOP-00010 | EPA 353.2 |
| Nitrogen - Nitrate (as N) | 5 | N/A | 2012/02/24 | BBY6SOP-00010 | Based on EPA 353.2 |
| Filter and HNO3 Preserve for Metals | 5 | N/A | 2012/02/22 | BBY6WI-00001 | EPA 200.2 |
| pH Water | 5 | N/A | 2012/02/23 | BBY6SOP-00026 | SM-4500H+B |
| Sulphate by Automated Colourimetry | 2 | N/A | 2012/02/23 | BBY6SOP-00017 | SM4500-SO42 |
| Sulphate by Automated Colourimetry | 3 | N/A | 2012/02/24 | BBY6SOP-00017 | SM4500-SO42 |
| Total Dissolved Solids (Filt. Residue) | 2 | 2012/02/25 | 2012/02/29 | BBY6SOP-00033 | SM 2540C |
| Total Dissolved Solids (Filt. Residue) | 3 | 2012/02/27 | 2012/02/27 | BBY6SOP-00033 | SM 2540C |
| Carbon (Total Organic) | 5 | N/A | 2012/02/24 | BBY6SOP-00003 | SM-5310C |
| Total Suspended Solids-LowLevel | 2 | 2012/02/24 | 2012/02/24 | BBY6SOP-00034 | SM-2540 D |
| Total Suspended Solids-LowLevel | 3 | 2012/02/27 | 2012/02/28 | BBY6SOP-00034 | SM-2540 D |

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

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 #: B214923
 Report Date: 2012/03/02

 DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

RESULTS OF CHEMICAL ANALYSES OF SEEPAGE

| | | | | | | | |
|----------------------------------|--------------|---------------------|------------|-----------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0661 | | | CU0662 | | |
| Sampling Date | | 2012/02/16 16:40 | | | 2012/02/16 15:05 | | |
| COC Number | | 08345441 | | | 08345441 | | |
| | Units | A30 | RDL | QC Batch | FD-40 | RDL | QC Batch |
| Misc. Inorganics | | | | | | | |
| Acidity (pH 4.5) | mg/L | <0.5 | 0.5 | 5619772 | <0.5 | 0.5 | 5619772 |
| Acidity (pH 8.3) | mg/L | 8.3 | 0.5 | 5619772 | 160 | 0.5 | 5619772 |
| Calculated Parameters | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | N/A | ONSITE | FIELD | N/A | ONSITE |
| Ion Balance | N/A | NC | 0.010 | 5617999 | 1.0 | 0.010 | 5617999 |
| Misc. Inorganics | | | | | | | |
| Alkalinity (Total as CaCO3) | mg/L | 20.5 | 0.50 | 5622154 | 0.87 | 0.50 | 5620900 |
| Alkalinity (PP as CaCO3) | mg/L | <0.50 | 0.50 | 5622154 | <0.50 | 0.50 | 5620900 |
| Bicarbonate (HCO3) | mg/L | 25.0 | 0.50 | 5622154 | 1.06 | 0.50 | 5620900 |
| Carbonate (CO3) | mg/L | <0.50 | 0.50 | 5622154 | <0.50 | 0.50 | 5620900 |
| Hydroxide (OH) | mg/L | <0.50 | 0.50 | 5622154 | <0.50 | 0.50 | 5620900 |
| Anions | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 74.1 | 0.50 | 5625677 | 890 | 5.0 | 5622468 |
| Dissolved Chloride (Cl) | mg/L | <0.5 | 0.5 | 5625675 | <0.5 | 0.5 | 5622458 |
| Physical Properties | | | | | | | |
| Conductivity | uS/cm | 209 | 1.0 | 5622155 | 1470 | 1.0 | 5620899 |
| pH | pH Units | 7.28 | | 5622156 | 5.04 | | 5620832 |
| Physical Properties | | | | | | | |
| Total Suspended Solids | mg/L | <1.0 | 1.0 | 5619565 | 11.7 | 1.0 | 5619565 |
| RDL = Reportable Detection Limit | | | | | | | |

Maxxam Job #: B214923
 Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

RESULTS OF CHEMICAL ANALYSES OF SURFACE

| | | | | | | | |
|---------------|--------------|---------------------|---------------------|-----------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0656 | CU0657 | | CU0658 | | |
| Sampling Date | | 2012/02/21 11:00 | 2012/02/21 11:30 | | 2012/02/21 15:53 | | |
| COC Number | | 08345441 | 08345441 | | 08345441 | | |
| | Units | V27 | V4 | QC Batch | V5 | RDL | QC Batch |

| | | | | | | | |
|------------------------------|----------|--------|--------|---------|--------|--------|---------|
| ANIONS | | | | | | | |
| Nitrite (N) | mg/L | <0.005 | <0.005 | 5621758 | <0.005 | 0.005 | 5625175 |
| Calculated Parameters | | | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | ONSITE | FIELD | N/A | ONSITE |
| Ion Balance | N/A | 1.1 | 1.1 | 5617999 | 1.1 | 0.010 | 5617999 |
| Nitrate (N) | mg/L | 0.689 | 0.142 | 5616310 | 0.207 | 0.020 | 5616310 |
| Misc. Inorganics | | | | | | | |
| Dissolved Organic Carbon (C) | mg/L | 1.81 | 3.81 | 5624864 | 2.54 | 0.50 | 5624864 |
| Alkalinity (Total as CaCO3) | mg/L | 116 | 316 | 5620900 | 253 | 0.50 | 5622154 |
| Total Organic Carbon (C) | mg/L | 1.46 | 3.84 | 5624876 | 2.91 | 0.50 | 5624876 |
| Alkalinity (PP as CaCO3) | mg/L | <0.50 | <0.50 | 5620900 | <0.50 | 0.50 | 5622154 |
| Bicarbonate (HCO3) | mg/L | 141 | 386 | 5620900 | 309 | 0.50 | 5622154 |
| Carbonate (CO3) | mg/L | <0.50 | <0.50 | 5620900 | <0.50 | 0.50 | 5622154 |
| Hydroxide (OH) | mg/L | <0.50 | <0.50 | 5620900 | <0.50 | 0.50 | 5622154 |
| Anions | | | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 178 | 78.9 | 5622468 | 135 | 0.50 | 5625677 |
| Dissolved Chloride (Cl) | mg/L | 1.0 | 1.0 | 5622458 | 2.3 | 0.5 | 5625675 |
| Nutrients | | | | | | | |
| Ammonia (N) | mg/L | 0.019 | 0.087 | 5620705 | 0.023 | 0.0050 | 5620705 |
| Nitrate plus Nitrite (N) | mg/L | 0.689 | 0.142 | 5621757 | 0.207 | 0.020 | 5625174 |
| Physical Properties | | | | | | | |
| Conductivity | uS/cm | 607 | 683 | 5620899 | 726 | 1.0 | 5622155 |
| pH | pH Units | 8.08 | 8.07 | 5620832 | 8.23 | | 5622156 |
| Physical Properties | | | | | | | |
| Total Suspended Solids | mg/L | <1.0 | 1.4 | 5626296 | 3.1 | 1.0 | 5626296 |
| Total Dissolved Solids | mg/L | 406 | 428 | 5630044 | 450 | 10 | 5630044 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

 DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

RESULTS OF CHEMICAL ANALYSES OF SURFACE

| Maxxam ID | | CU0659 | CU0660 | | |
|--|--------------|---------------------|---------------------|------------|-----------------|
| Sampling Date | | 2012/02/20 14:15 | 2012/02/20 14:25 | | |
| COC Number | | 08345441 | 08345441 | | |
| | Units | V8 | SPLIT 1 | RDL | QC Batch |
| ANIONS | | | | | |
| Nitrite (N) | mg/L | <0.005 (1) | <0.005 (1) | 0.005 | 5625175 |
| Calculated Parameters | | | | | |
| Filter and HNO3 Preservation | N/A | FIELD | FIELD | N/A | ONSITE |
| Ion Balance | N/A | 1.1 | 1.1 | 0.010 | 5617999 |
| Nitrate (N) | mg/L | 0.424 | 0.422 | 0.020 | 5616310 |
| Misc. Inorganics | | | | | |
| Dissolved Organic Carbon (C) | mg/L | 2.25 | 2.49 | 0.50 | 5624864 |
| Alkalinity (Total as CaCO3) | mg/L | 209 | 209 | 0.50 | 5622154 |
| Total Organic Carbon (C) | mg/L | 1.77 | 1.87 | 0.50 | 5624876 |
| Alkalinity (PP as CaCO3) | mg/L | <0.50 | <0.50 | 0.50 | 5622154 |
| Bicarbonate (HCO3) | mg/L | 255 | 255 | 0.50 | 5622154 |
| Carbonate (CO3) | mg/L | <0.50 | <0.50 | 0.50 | 5622154 |
| Hydroxide (OH) | mg/L | <0.50 | <0.50 | 0.50 | 5622154 |
| Anions | | | | | |
| Dissolved Sulphate (SO4) | mg/L | 166 | 167 | 0.50 | 5625677 |
| Dissolved Chloride (Cl) | mg/L | 1.7 | 1.7 | 0.5 | 5625675 |
| Nutrients | | | | | |
| Ammonia (N) | mg/L | 0.036 | 0.036 | 0.0050 | 5620705 |
| Nitrate plus Nitrite (N) | mg/L | 0.424 (1) | 0.422 (1) | 0.020 | 5625174 |
| Physical Properties | | | | | |
| Conductivity | uS/cm | 704 | 701 | 1.0 | 5622155 |
| pH | pH Units | 8.27 | 8.29 | | 5622156 |
| Physical Properties | | | | | |
| Total Suspended Solids | mg/L | 1.6 | 1.7 | 1.0 | 5622319 |
| Total Dissolved Solids | mg/L | 546 | 532 | 10 | 5622276 |
| RDL = Reportable Detection Limit (1) Sample analysed past recommended hold time | | | | | |

CSR DISSOLVED METALS IN WATER (SEEPAGE)

| | | | | | | |
|---------------|--------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0661 | | CU0662 | | |
| Sampling Date | | 2012/02/16 16:40 | | 2012/02/16 15:05 | | |
| COC Number | | 08345441 | | 08345441 | | |
| | Units | A30 | RDL | FD-40 | RDL | QC Batch |

| Misc. Inorganics | | | | | | |
|----------------------------------|------|--------|-------|-------|-------|---------|
| Dissolved Hardness (CaCO3) | mg/L | 88.5 | 0.5 | 755 | 0.5 | 5615399 |
| Dissolved Metals by ICPMS | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 17.5 | 3.0 | 4680 | 7.5 | 5621530 |
| Dissolved Antimony (Sb) | ug/L | <0.50 | 0.50 | <1.3 | 1.3 | 5621530 |
| Dissolved Arsenic (As) | ug/L | <0.10 | 0.10 | 0.71 | 0.25 | 5621530 |
| Dissolved Barium (Ba) | ug/L | 18.3 | 1.0 | 12.0 | 2.5 | 5621530 |
| Dissolved Beryllium (Be) | ug/L | <0.10 | 0.10 | 4.92 | 0.25 | 5621530 |
| Dissolved Bismuth (Bi) | ug/L | <1.0 | 1.0 | <2.5 | 2.5 | 5621530 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 160 | 130 | 5621530 |
| Dissolved Cadmium (Cd) | ug/L | 2.47 | 0.010 | 125 | 0.025 | 5621530 |
| Dissolved Chromium (Cr) | ug/L | <1.0 | 1.0 | <2.5 | 2.5 | 5621530 |
| Dissolved Cobalt (Co) | ug/L | <0.50 | 0.50 | 141 | 1.3 | 5621530 |
| Dissolved Copper (Cu) | ug/L | 10.1 | 0.20 | 741 | 0.50 | 5621530 |
| Dissolved Iron (Fe) | ug/L | <5.0 | 5.0 | 24 | 13 | 5621530 |
| Dissolved Lead (Pb) | ug/L | 2.53 | 0.20 | 17.4 | 0.50 | 5621530 |
| Dissolved Lithium (Li) | ug/L | 8.7 | 5.0 | 38 | 13 | 5621530 |
| Dissolved Manganese (Mn) | ug/L | 11.9 | 1.0 | 5950 | 2.5 | 5621530 |
| Dissolved Molybdenum (Mo) | ug/L | <1.0 | 1.0 | <2.5 | 2.5 | 5621530 |
| Dissolved Nickel (Ni) | ug/L | 14.9 | 1.0 | 297 | 2.5 | 5621530 |
| Dissolved Selenium (Se) | ug/L | 0.14 | 0.10 | 0.34 | 0.25 | 5621530 |
| Dissolved Silicon (Si) | ug/L | 5700 | 100 | 15500 | 250 | 5621530 |
| Dissolved Silver (Ag) | ug/L | <0.020 | 0.020 | 0.100 | 0.050 | 5621530 |
| Dissolved Strontium (Sr) | ug/L | 76.2 | 1.0 | 424 | 2.5 | 5621530 |
| Dissolved Thallium (Tl) | ug/L | <0.050 | 0.050 | <0.13 | 0.13 | 5621530 |
| Dissolved Tin (Sn) | ug/L | <5.0 | 5.0 | <13 | 13 | 5621530 |
| Dissolved Titanium (Ti) | ug/L | <5.0 | 5.0 | <13 | 13 | 5621530 |
| Dissolved Uranium (U) | ug/L | 0.14 | 0.10 | 4.05 | 0.25 | 5621530 |
| Dissolved Vanadium (V) | ug/L | <5.0 | 5.0 | <13 | 13 | 5621530 |
| Dissolved Zinc (Zn) | ug/L | 4630 | 5.0 | 91500 | 13 | 5621530 |
| Dissolved Zirconium (Zr) | ug/L | <0.50 | 0.50 | <1.3 | 1.3 | 5621530 |
| Dissolved Calcium (Ca) | mg/L | 18.2 | 0.050 | 130 | 0.13 | 5615400 |
| Dissolved Magnesium (Mg) | mg/L | 10.5 | 0.050 | 104 | 0.13 | 5615400 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

CSR DISSOLVED METALS IN WATER (SEEPAGE)

| | | | | | | |
|---------------|--------------|---------------------|------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0661 | | CU0662 | | |
| Sampling Date | | 2012/02/16 16:40 | | 2012/02/16 15:05 | | |
| COC Number | | 08345441 | | 08345441 | | |
| | Units | A30 | RDL | FD-40 | RDL | QC Batch |

| | | | | | | |
|-------------------------|------|-------|-------|------|------|---------|
| Dissolved Potassium (K) | mg/L | 0.791 | 0.050 | 2.37 | 0.13 | 5615400 |
| Dissolved Sodium (Na) | mg/L | 2.46 | 0.050 | 5.57 | 0.13 | 5615400 |
| Dissolved Sulphur (S) | mg/L | 28.1 | 3.0 | 323 | 7.5 | 5615400 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

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

| Maxxam ID | | CU0656 | | CU0657 | CU0658 | CU0659 | | |
|---------------|--------------|---------------------|-----------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date | | 2012/02/21 11:00 | | 2012/02/21 11:30 | 2012/02/21 15:53 | 2012/02/20 14:15 | | |
| COC Number | | 08345441 | | 08345441 | 08345441 | 08345441 | | |
| | Units | V27 | QC Batch | V4 | V5 | V8 | RDL | QC Batch |

| Misc. Inorganics | | | | | | | | |
|---|------|--------|---------|--------|--------|--------|-------|---------|
| Dissolved Hardness (CaCO ₃) | mg/L | 326 | 5615399 | 411 | 421 | 403 | 0.5 | 5615399 |
| Dissolved Metals by ICPMS | | | | | | | | |
| Dissolved Aluminum (Al) | ug/L | 4.1 | 5624669 | 5.6 | 4.1 | 3.8 | 0.2 | 5624669 |
| Dissolved Antimony (Sb) | ug/L | 0.11 | 5624669 | 0.09 | 0.14 | 0.15 | 0.02 | 5624669 |
| Dissolved Arsenic (As) | ug/L | 0.48 | 5624669 | 0.51 | 0.42 | 0.48 | 0.02 | 5624669 |
| Dissolved Barium (Ba) | ug/L | 49.9 | 5624669 | 87.0 | 77.2 | 71.8 | 0.02 | 5624669 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | 5624669 | <0.01 | <0.01 | <0.01 | 0.01 | 5624669 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | 5624669 | <0.005 | <0.005 | <0.005 | 0.005 | 5624669 |
| Dissolved Boron (B) | ug/L | <50 | 5624669 | <50 | <50 | <50 | 50 | 5624669 |
| Dissolved Cadmium (Cd) | ug/L | 0.064 | 5624669 | 0.013 | 0.045 | 0.052 | 0.005 | 5624669 |
| Dissolved Chromium (Cr) | ug/L | 0.1 | 5624669 | 0.2 | 0.2 | <0.1 | 0.1 | 5624669 |
| Dissolved Cobalt (Co) | ug/L | 0.013 | 5624669 | 0.044 | 0.047 | 0.040 | 0.005 | 5624669 |
| Dissolved Copper (Cu) | ug/L | 0.58 | 5624669 | 0.42 | 0.47 | 0.45 | 0.05 | 5624669 |
| Dissolved Iron (Fe) | ug/L | 3 | 5624669 | 53 | 14 | 15 | 1 | 5624669 |
| Dissolved Lead (Pb) | ug/L | 0.104 | 5624669 | 0.026 | 0.086 | 0.071 | 0.005 | 5624669 |
| Dissolved Lithium (Li) | ug/L | 3.0 | 5624669 | 5.8 | 5.5 | 5.7 | 0.5 | 5624669 |
| Dissolved Manganese (Mn) | ug/L | 0.33 | 5624669 | 48.9 | 12.7 | 3.88 | 0.05 | 5624669 |
| Dissolved Molybdenum (Mo) | ug/L | 0.76 | 5624669 | 1.11 | 2.14 | 1.26 | 0.05 | 5624669 |
| Dissolved Nickel (Ni) | ug/L | 0.77 | 5640106 | 0.67 | 1.29 | 1.45 | 0.02 | 5624669 |
| Dissolved Selenium (Se) | ug/L | 0.49 | 5624669 | 0.81 | 2.49 | 1.52 | 0.04 | 5624669 |
| Dissolved Silicon (Si) | ug/L | 5000 | 5624669 | 5640 | 5340 | 5110 | 100 | 5624669 |
| Dissolved Silver (Ag) | ug/L | <0.005 | 5624669 | <0.005 | <0.005 | <0.005 | 0.005 | 5624669 |
| Dissolved Strontium (Sr) | ug/L | 260 | 5624669 | 395 | 358 | 370 | 0.05 | 5624669 |
| Dissolved Thallium (Tl) | ug/L | 0.010 | 5624669 | <0.002 | 0.002 | 0.004 | 0.002 | 5624669 |
| Dissolved Tin (Sn) | ug/L | <0.2 | 5624669 | <0.2 | <0.2 | <0.2 | 0.2 | 5624669 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | 5624669 | <0.5 | <0.5 | <0.5 | 0.5 | 5624669 |
| Dissolved Uranium (U) | ug/L | 7.18 | 5624669 | 16.3 | 6.64 | 8.32 | 0.002 | 5624669 |
| Dissolved Vanadium (V) | ug/L | <0.2 | 5624669 | <0.2 | <0.2 | <0.2 | 0.2 | 5624669 |
| Dissolved Zinc (Zn) | ug/L | 29.8 | 5624669 | 1.1 | 3.1 | 10.8 | 0.1 | 5624669 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | 5624669 | <0.1 | <0.1 | <0.1 | 0.1 | 5624669 |
| Dissolved Calcium (Ca) | mg/L | 73.5 | 5615854 | 99.7 | 97.8 | 94.3 | 0.05 | 5615854 |
| Dissolved Magnesium (Mg) | mg/L | 34.6 | 5615854 | 39.3 | 42.9 | 40.6 | 0.05 | 5615854 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

| | | | | | | | | |
|---------------|--------------|---------------------|-----------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0656 | | CU0657 | CU0658 | CU0659 | | |
| Sampling Date | | 2012/02/21 11:00 | | 2012/02/21 11:30 | 2012/02/21 15:53 | 2012/02/20 14:15 | | |
| COC Number | | 08345441 | | 08345441 | 08345441 | 08345441 | | |
| | Units | V27 | QC Batch | V4 | V5 | V8 | RDL | QC Batch |

| | | | | | | | | |
|-------------------------|------|------|---------|------|------|------|------|---------|
| Dissolved Potassium (K) | mg/L | 0.96 | 5615854 | 1.27 | 1.42 | 1.38 | 0.05 | 5615854 |
| Dissolved Sodium (Na) | mg/L | 3.94 | 5615854 | 4.30 | 5.05 | 4.89 | 0.05 | 5615854 |
| Dissolved Sulphur (S) | mg/L | 74 | 5615854 | 30 | 53 | 62 | 10 | 5615854 |

RDL = Reportable Detection Limit

LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

| | | | | |
|---------------|--------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0660 | | |
| Sampling Date | | 2012/02/20 14:25 | | |
| COC Number | | 08345441 | | |
| | Units | SPLIT 1 | RDL | QC Batch |

| Misc. Inorganics | | | | |
|---|------|--------|-------|---------|
| Dissolved Hardness (CaCO ₃) | mg/L | 399 | 0.5 | 5615399 |
| Dissolved Metals by ICPMS | | | | |
| Dissolved Aluminum (Al) | ug/L | 3.9 | 0.2 | 5624669 |
| Dissolved Antimony (Sb) | ug/L | 0.14 | 0.02 | 5624669 |
| Dissolved Arsenic (As) | ug/L | 0.43 | 0.02 | 5624669 |
| Dissolved Barium (Ba) | ug/L | 76.7 | 0.02 | 5624669 |
| Dissolved Beryllium (Be) | ug/L | <0.01 | 0.01 | 5624669 |
| Dissolved Bismuth (Bi) | ug/L | <0.005 | 0.005 | 5624669 |
| Dissolved Boron (B) | ug/L | <50 | 50 | 5624669 |
| Dissolved Cadmium (Cd) | ug/L | 0.054 | 0.005 | 5624669 |
| Dissolved Chromium (Cr) | ug/L | 0.1 | 0.1 | 5624669 |
| Dissolved Cobalt (Co) | ug/L | 0.033 | 0.005 | 5624669 |
| Dissolved Copper (Cu) | ug/L | 0.44 | 0.05 | 5624669 |
| Dissolved Iron (Fe) | ug/L | 14 | 1 | 5624669 |
| Dissolved Lead (Pb) | ug/L | 0.063 | 0.005 | 5624669 |
| Dissolved Lithium (Li) | ug/L | 6.1 | 0.5 | 5624669 |
| Dissolved Manganese (Mn) | ug/L | 3.76 | 0.05 | 5624669 |
| Dissolved Molybdenum (Mo) | ug/L | 1.25 | 0.05 | 5624669 |
| Dissolved Nickel (Ni) | ug/L | 1.20 | 0.02 | 5624669 |
| Dissolved Selenium (Se) | ug/L | 1.44 | 0.04 | 5624669 |
| Dissolved Silicon (Si) | ug/L | 5240 | 100 | 5624669 |
| Dissolved Silver (Ag) | ug/L | <0.005 | 0.005 | 5624669 |
| Dissolved Strontium (Sr) | ug/L | 372 | 0.05 | 5624669 |
| Dissolved Thallium (Tl) | ug/L | 0.005 | 0.002 | 5624669 |
| Dissolved Tin (Sn) | ug/L | <0.2 | 0.2 | 5624669 |
| Dissolved Titanium (Ti) | ug/L | <0.5 | 0.5 | 5624669 |
| Dissolved Uranium (U) | ug/L | 7.26 | 0.002 | 5624669 |
| Dissolved Vanadium (V) | ug/L | <0.2 | 0.2 | 5624669 |
| Dissolved Zinc (Zn) | ug/L | 9.4 | 0.1 | 5624669 |
| Dissolved Zirconium (Zr) | ug/L | <0.1 | 0.1 | 5624669 |
| Dissolved Calcium (Ca) | mg/L | 94.8 | 0.05 | 5615854 |
| Dissolved Magnesium (Mg) | mg/L | 39.4 | 0.05 | 5615854 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

LOW LEVEL DISSOLVED METALS IN WATER (SURFACE)

| | | | | |
|---------------|--------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0660 | | |
| Sampling Date | | 2012/02/20 14:25 | | |
| COC Number | | 08345441 | | |
| | Units | SPLIT 1 | RDL | QC Batch |

| | | | | |
|-------------------------|------|------|------|---------|
| Dissolved Potassium (K) | mg/L | 1.46 | 0.05 | 5615854 |
| Dissolved Sodium (Na) | mg/L | 4.55 | 0.05 | 5615854 |
| Dissolved Sulphur (S) | mg/L | 70 | 10 | 5615854 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

 DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

LOW LEVEL TOTAL METALS IN WATER (SURFACE)

| | | | | | | | | |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0656 | CU0657 | CU0658 | CU0659 | CU0660 | | |
| Sampling Date | | 2012/02/21 11:00 | 2012/02/21 11:30 | 2012/02/21 15:53 | 2012/02/20 14:15 | 2012/02/20 14:25 | | |
| COC Number | | 08345441 | 08345441 | 08345441 | 08345441 | 08345441 | | |
| | Units | V27 | V4 | V5 | V8 | SPLIT 1 | RDL | QC Batch |

| Calculated Parameters | | | | | | | | |
|------------------------------|------|--------|--------|--------|--------|--------|-------|---------|
| Total Hardness (CaCO3) | mg/L | 326 | 403 | 423 | 409 | 413 | 0.50 | 5615625 |
| Total Metals by ICPMS | | | | | | | | |
| Total Aluminum (Al) | ug/L | 4.9 | 13.2 | 32.6 | 16.0 | 15.6 | 0.2 | 5624893 |
| Total Antimony (Sb) | ug/L | 0.11 | 0.09 | 0.14 | 0.16 | 0.14 | 0.02 | 5624893 |
| Total Arsenic (As) | ug/L | 0.51 | 0.77 | 0.49 | 0.45 | 0.50 | 0.02 | 5624893 |
| Total Barium (Ba) | ug/L | 57.2 | 90.9 | 83.1 | 73.8 | 75.2 | 0.02 | 5624893 |
| Total Beryllium (Be) | ug/L | <0.01 | <0.01 | <0.01 | <0.01 | <0.01 | 0.01 | 5624893 |
| Total Bismuth (Bi) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 5624893 |
| Total Boron (B) | ug/L | <50 | <50 | <50 | <50 | <50 | 50 | 5624893 |
| Total Cadmium (Cd) | ug/L | 0.056 | 0.018 | 0.050 | 0.058 | 0.057 | 0.005 | 5624893 |
| Total Chromium (Cr) | ug/L | <0.1 | <0.1 | 0.2 | <0.1 | <0.1 | 0.1 | 5624893 |
| Total Cobalt (Co) | ug/L | 0.015 | 0.067 | 0.097 | 0.059 | 0.067 | 0.005 | 5624893 |
| Total Copper (Cu) | ug/L | 0.51 | 0.43 | 0.64 | 0.58 | 0.56 | 0.05 | 5624893 |
| Total Iron (Fe) | ug/L | 6 | 280 | 83 | 45 | 44 | 1 | 5624893 |
| Total Lead (Pb) | ug/L | 0.100 | 0.096 | 0.190 | 0.144 | 0.136 | 0.005 | 5624893 |
| Total Lithium (Li) | ug/L | 2.8 | 5.8 | 5.4 | 5.7 | 5.9 | 0.5 | 5624893 |
| Total Manganese (Mn) | ug/L | 0.44 | 52.9 | 18.3 | 6.03 | 6.22 | 0.05 | 5624893 |
| Total Molybdenum (Mo) | ug/L | 0.78 | 1.04 | 2.17 | 1.30 | 1.25 | 0.05 | 5624893 |
| Total Nickel (Ni) | ug/L | 0.69 | 0.70 | 1.43 | 1.56 | 1.45 | 0.02 | 5624893 |
| Total Selenium (Se) | ug/L | 0.46 | 0.84 | 2.54 | 1.50 | 1.54 | 0.04 | 5624893 |
| Total Silicon (Si) | ug/L | 5000 | 5640 | 5550 | 5240 | 5230 | 100 | 5624893 |
| Total Silver (Ag) | ug/L | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 | 0.005 | 5624893 |
| Total Strontium (Sr) | ug/L | 258 | 409 | 373 | 368 | 373 | 0.05 | 5624893 |
| Total Thallium (Tl) | ug/L | 0.009 | <0.002 | 0.003 | 0.005 | 0.006 | 0.002 | 5624893 |
| Total Tin (Sn) | ug/L | <0.2 | <0.2 | <0.2 | <0.2 | <0.2 | 0.2 | 5624893 |
| Total Titanium (Ti) | ug/L | <0.5 | <0.5 | 1.1 | <0.5 | <0.5 | 0.5 | 5624893 |
| Total Uranium (U) | ug/L | 6.58 | 15.3 | 6.40 | 8.82 | 8.68 | 0.002 | 5624893 |
| Total Vanadium (V) | ug/L | <0.2 | <0.2 | 0.3 | <0.2 | <0.2 | 0.2 | 5624893 |
| Total Zinc (Zn) | ug/L | 27.9 | 2.2 | 3.1 | 10.5 | 10.8 | 0.1 | 5624893 |
| Total Zirconium (Zr) | ug/L | <0.1 | <0.1 | <0.1 | <0.1 | <0.1 | 0.1 | 5624893 |
| Total Calcium (Ca) | mg/L | 73.9 | 99.3 | 100 | 95.5 | 96.4 | 0.05 | 5615626 |
| Total Magnesium (Mg) | mg/L | 34.2 | 37.7 | 41.8 | 41.3 | 41.9 | 0.05 | 5615626 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
 Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
 Client Project #: FEBUARY 16, 20 & 21, 2012

LOW LEVEL TOTAL METALS IN WATER (SURFACE)

| | | | | | | | | |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Maxxam ID | | CU0656 | CU0657 | CU0658 | CU0659 | CU0660 | | |
| Sampling Date | | 2012/02/21 11:00 | 2012/02/21 11:30 | 2012/02/21 15:53 | 2012/02/20 14:15 | 2012/02/20 14:25 | | |
| COC Number | | 08345441 | 08345441 | 08345441 | 08345441 | 08345441 | | |
| | Units | V27 | V4 | V5 | V8 | SPLIT 1 | RDL | QC Batch |

| | | | | | | | | |
|---------------------|------|------|------|------|------|------|------|---------|
| Total Potassium (K) | mg/L | 1.01 | 1.34 | 1.50 | 1.42 | 1.43 | 0.05 | 5615626 |
| Total Sodium (Na) | mg/L | 3.95 | 4.24 | 5.07 | 5.03 | 5.09 | 0.05 | 5615626 |
| Total Sulphur (S) | mg/L | 77 | 32 | 54 | 65 | 66 | 10 | 5615626 |

RDL = Reportable Detection Limit

Maxxam Job #: B214923
Report Date: 2012/03/02

DENISON ENVIRONMENTAL SERVICES
Client Project #: FEBUARY 16, 20 & 21, 2012

General Comments

Sample CU0661-01: Ion Balance: NC = Not Calculable due to low ion sum [< 3 meq/L].

CSR DISSOLVED METALS IN WATER (SEEPAGE) Comments

Sample CU0662-03 Elements by CRC ICPMS (dissolved): Detection limits raised due to matrix interference

Sample CU0656, Elements by ICPMS Low Level (dissolved): Test repeated.

Results relate only to the items tested.

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report
 Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|-----------------|-----------------------------|-----------------------------|---------|----------|-------|-----------|
| 5619565 ZY1 | Spiked Blank | Total Suspended Solids | 2012/02/24 | | 95 | % | 80 - 120 |
| | Method Blank | Total Suspended Solids | 2012/02/24 | <1.0 | | mg/L | |
| 5619772 WAY | Spiked Blank | Acidity (pH 8.3) | 2012/02/23 | | 99 | % | 80 - 120 |
| | Method Blank | Acidity (pH 4.5) | 2012/02/23 | <0.5 | | mg/L | |
| | | Acidity (pH 8.3) | 2012/02/23 | <0.5 | | mg/L | |
| | RPD | Acidity (pH 8.3) | 2012/02/23 | NC | | % | 20 |
| 5620705 CK | Matrix Spike | Ammonia (N) | 2012/02/23 | | NC | % | 80 - 120 |
| | Spiked Blank | Ammonia (N) | 2012/02/23 | | 104 | % | 80 - 120 |
| | Method Blank | Ammonia (N) | 2012/02/23 | <0.0050 | | mg/L | |
| | RPD [CU0656-06] | Ammonia (N) | 2012/02/23 | NC | | % | 20 |
| 5620899 MM3 | Spiked Blank | Conductivity | 2012/02/23 | | 98 | % | 80 - 120 |
| | Method Blank | Conductivity | 2012/02/23 | <1.0 | | uS/cm | |
| | RPD | Conductivity | 2012/02/23 | 1.0 | | % | 20 |
| 5620900 MM3 | Matrix Spike | Alkalinity (Total as CaCO3) | 2012/02/23 | | NC | % | 80 - 120 |
| | Spiked Blank | Alkalinity (Total as CaCO3) | 2012/02/23 | | 95 | % | 80 - 120 |
| | Method Blank | Alkalinity (Total as CaCO3) | 2012/02/23 | <0.50 | | mg/L | |
| | | Alkalinity (PP as CaCO3) | 2012/02/23 | <0.50 | | mg/L | |
| | | Bicarbonate (HCO3) | 2012/02/23 | <0.50 | | mg/L | |
| | | Carbonate (CO3) | 2012/02/23 | <0.50 | | mg/L | |
| | | Hydroxide (OH) | 2012/02/23 | <0.50 | | mg/L | |
| | RPD | Alkalinity (Total as CaCO3) | 2012/02/23 | 0.3 | | % | 20 |
| | | Alkalinity (PP as CaCO3) | 2012/02/23 | NC | | % | 20 |
| | | Bicarbonate (HCO3) | 2012/02/23 | 0.3 | | % | 20 |
| | | Carbonate (CO3) | 2012/02/23 | NC | | % | 20 |
| | | Hydroxide (OH) | 2012/02/23 | NC | | % | 20 |
| 5621530 GS2 | Matrix Spike | Dissolved Aluminum (Al) | 2012/02/25 | | 101 | % | 80 - 120 |
| | | Dissolved Antimony (Sb) | 2012/02/25 | | 107 | % | 80 - 120 |
| | | Dissolved Arsenic (As) | 2012/02/25 | | 100 | % | 80 - 120 |
| | | Dissolved Barium (Ba) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Beryllium (Be) | 2012/02/25 | | 96 | % | 80 - 120 |
| | | Dissolved Bismuth (Bi) | 2012/02/25 | | 86 | % | 80 - 120 |
| | | Dissolved Cadmium (Cd) | 2012/02/25 | | 94 | % | 80 - 120 |
| | | Dissolved Chromium (Cr) | 2012/02/25 | | 94 | % | 80 - 120 |
| | | Dissolved Cobalt (Co) | 2012/02/25 | | 92 | % | 80 - 120 |
| | | Dissolved Copper (Cu) | 2012/02/25 | | 90 | % | 80 - 120 |
| | | Dissolved Iron (Fe) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Lead (Pb) | 2012/02/25 | | 93 | % | 80 - 120 |
| | | Dissolved Lithium (Li) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Manganese (Mn) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Molybdenum (Mo) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Nickel (Ni) | 2012/02/25 | | 93 | % | 80 - 120 |
| | | Dissolved Selenium (Se) | 2012/02/25 | | 104 | % | 80 - 120 |
| | | Dissolved Silver (Ag) | 2012/02/25 | | 97 | % | 80 - 120 |
| | | Dissolved Strontium (Sr) | 2012/02/25 | | NC | % | 80 - 120 |
| | | Dissolved Thallium (Tl) | 2012/02/25 | | 101 | % | 80 - 120 |
| | | Dissolved Tin (Sn) | 2012/02/25 | | 101 | % | 80 - 120 |
| | | Dissolved Titanium (Ti) | 2012/02/25 | | 97 | % | 80 - 120 |
| | | Dissolved Uranium (U) | 2012/02/25 | | 93 | % | 80 - 120 |
| | | Dissolved Vanadium (V) | 2012/02/25 | | 95 | % | 80 - 120 |
| | | Dissolved Zinc (Zn) | 2012/02/25 | | 91 | % | 80 - 120 |
| | Spiked Blank | Dissolved Aluminum (Al) | 2012/02/25 | | 110 | % | 80 - 120 |
| | | Dissolved Antimony (Sb) | 2012/02/25 | | 111 | % | 80 - 120 |
| | | Dissolved Arsenic (As) | 2012/02/25 | | 101 | % | 80 - 120 |
| | | Dissolved Barium (Ba) | 2012/02/25 | | 100 | % | 80 - 120 |
| | | Dissolved Beryllium (Be) | 2012/02/25 | | 100 | % | 80 - 120 |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | | |
|---------------------------|--------------|---------------------------|-----------------------------|--------------------------|------------|-------|-----------|------|--|
| 5621530 GS2 | Spiked Blank | Dissolved Bismuth (Bi) | 2012/02/25 | | 101 | % | 80 - 120 | | |
| | | Dissolved Cadmium (Cd) | 2012/02/25 | | 102 | % | 80 - 120 | | |
| | | Dissolved Chromium (Cr) | 2012/02/25 | | 102 | % | 80 - 120 | | |
| | | Dissolved Cobalt (Co) | 2012/02/25 | | 100 | % | 80 - 120 | | |
| | | Dissolved Copper (Cu) | 2012/02/25 | | 100 | % | 80 - 120 | | |
| | | Dissolved Iron (Fe) | 2012/02/25 | | 107 | % | 80 - 120 | | |
| | | Dissolved Lead (Pb) | 2012/02/25 | | 98 | % | 80 - 120 | | |
| | | Dissolved Lithium (Li) | 2012/02/25 | | 99 | % | 80 - 120 | | |
| | | Dissolved Manganese (Mn) | 2012/02/25 | | 101 | % | 80 - 120 | | |
| | | Dissolved Molybdenum (Mo) | 2012/02/25 | | 97 | % | 80 - 120 | | |
| | | Dissolved Nickel (Ni) | 2012/02/25 | | 103 | % | 80 - 120 | | |
| | | Dissolved Selenium (Se) | 2012/02/25 | | 110 | % | 80 - 120 | | |
| | | Dissolved Silver (Ag) | 2012/02/25 | | 103 | % | 80 - 120 | | |
| | | Dissolved Strontium (Sr) | 2012/02/25 | | 97 | % | 80 - 120 | | |
| | | Dissolved Thallium (Tl) | 2012/02/25 | | 105 | % | 80 - 120 | | |
| | | Dissolved Tin (Sn) | 2012/02/25 | | 103 | % | 80 - 120 | | |
| | | Dissolved Titanium (Ti) | 2012/02/25 | | 110 | % | 80 - 120 | | |
| | | Dissolved Uranium (U) | 2012/02/25 | | 96 | % | 80 - 120 | | |
| | | Dissolved Vanadium (V) | 2012/02/25 | | 99 | % | 80 - 120 | | |
| | | Dissolved Zinc (Zn) | 2012/02/25 | | 105 | % | 80 - 120 | | |
| | | Method Blank | | Dissolved Aluminum (Al) | 2012/02/25 | <3.0 | | ug/L | |
| | | | | Dissolved Antimony (Sb) | 2012/02/25 | <0.50 | | ug/L | |
| | | | | Dissolved Arsenic (As) | 2012/02/25 | <0.10 | | ug/L | |
| | | | | Dissolved Barium (Ba) | 2012/02/25 | <1.0 | | ug/L | |
| | | | | Dissolved Beryllium (Be) | 2012/02/25 | <0.10 | | ug/L | |
| Dissolved Bismuth (Bi) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Boron (B) | 2012/02/25 | | | <5.0 | | ug/L | | | |
| Dissolved Cadmium (Cd) | 2012/02/25 | | | <0.010 | | ug/L | | | |
| Dissolved Chromium (Cr) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Cobalt (Co) | 2012/02/25 | | | <0.50 | | ug/L | | | |
| Dissolved Copper (Cu) | 2012/02/25 | | | <0.20 | | ug/L | | | |
| Dissolved Iron (Fe) | 2012/02/25 | | | <5.0 | | ug/L | | | |
| Dissolved Lead (Pb) | 2012/02/25 | | | <0.20 | | ug/L | | | |
| Dissolved Lithium (Li) | 2012/02/25 | | | <5.0 | | ug/L | | | |
| Dissolved Manganese (Mn) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Molybdenum (Mo) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Nickel (Ni) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Selenium (Se) | 2012/02/25 | | | <0.10 | | ug/L | | | |
| Dissolved Silicon (Si) | 2012/02/25 | | | <100 | | ug/L | | | |
| Dissolved Silver (Ag) | 2012/02/25 | | | <0.020 | | ug/L | | | |
| Dissolved Strontium (Sr) | 2012/02/25 | | | <1.0 | | ug/L | | | |
| Dissolved Thallium (Tl) | 2012/02/25 | | | <0.050 | | ug/L | | | |
| Dissolved Tin (Sn) | 2012/02/25 | | | <5.0 | | ug/L | | | |
| Dissolved Titanium (Ti) | 2012/02/25 | | | <5.0 | | ug/L | | | |
| Dissolved Uranium (U) | 2012/02/25 | | | <0.10 | | ug/L | | | |
| Dissolved Vanadium (V) | 2012/02/25 | <5.0 | | ug/L | | | | | |
| Dissolved Zinc (Zn) | 2012/02/25 | <5.0 | | ug/L | | | | | |
| RPD | | Dissolved Zirconium (Zr) | 2012/02/25 | <0.50 | | ug/L | | | |
| | | Dissolved Aluminum (Al) | 2012/02/25 | NC | | % | 20 | | |
| | | Dissolved Antimony (Sb) | 2012/02/25 | NC | | % | 20 | | |
| | | Dissolved Arsenic (As) | 2012/02/25 | 0.009 | | % | 20 | | |
| | | Dissolved Barium (Ba) | 2012/02/25 | 1 | | % | 20 | | |
| | | Dissolved Beryllium (Be) | 2012/02/25 | NC | | % | 20 | | |
| | | Dissolved Bismuth (Bi) | 2012/02/25 | NC | | % | 20 | | |
| | | Dissolved Boron (B) | 2012/02/25 | NC | | % | 20 | | |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | |
|--------------------------|--------------|-----------------------------|-----------------------------|----------------|----------|-------|-----------|----|
| 5621530 GS2 | RPD | Dissolved Cadmium (Cd) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Chromium (Cr) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Cobalt (Co) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Copper (Cu) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Iron (Fe) | 2012/02/25 | 1.6 | | % | 20 | |
| | | Dissolved Lead (Pb) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Lithium (Li) | 2012/02/25 | 0.5 | | % | 20 | |
| | | Dissolved Manganese (Mn) | 2012/02/25 | 2.0 | | % | 20 | |
| | | Dissolved Molybdenum (Mo) | 2012/02/25 | 4.5 | | % | 20 | |
| | | Dissolved Nickel (Ni) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Selenium (Se) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Silicon (Si) | 2012/02/25 | 1.6 | | % | 20 | |
| | | Dissolved Silver (Ag) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Strontium (Sr) | 2012/02/25 | 2.3 | | % | 20 | |
| | | Dissolved Thallium (Tl) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Tin (Sn) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Titanium (Ti) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Uranium (U) | 2012/02/25 | 1.1 | | % | 20 | |
| | | Dissolved Vanadium (V) | 2012/02/25 | NC | | % | 20 | |
| | | Dissolved Zinc (Zn) | 2012/02/25 | NC | | % | 20 | |
| Dissolved Zirconium (Zr) | 2012/02/25 | NC | | % | 20 | | | |
| 5621757 TL2 | Matrix Spike | Nitrate plus Nitrite (N) | 2012/02/23 | | NC (1) | % | 80 - 120 | |
| | Spiked Blank | Nitrate plus Nitrite (N) | 2012/02/23 | | 105 | % | 80 - 120 | |
| | Method Blank | Nitrate plus Nitrite (N) | 2012/02/23 | <0.020 | | mg/L | | |
| | RPD | Nitrate plus Nitrite (N) | 2012/02/23 | NC | | % | 25 | |
| 5621758 TL2 | Matrix Spike | Nitrite (N) | 2012/02/23 | | 97 | % | 80 - 120 | |
| | Spiked Blank | Nitrite (N) | 2012/02/23 | | 102 | % | 80 - 120 | |
| | Method Blank | Nitrite (N) | 2012/02/23 | <0.005 | | mg/L | | |
| | RPD | Nitrite (N) | 2012/02/23 | NC | | % | 20 | |
| 5622154 WAY | Matrix Spike | Alkalinity (Total as CaCO3) | 2012/02/23 | | 105 | % | 80 - 120 | |
| | Spiked Blank | Alkalinity (Total as CaCO3) | 2012/02/23 | | 91 | % | 80 - 120 | |
| | Method Blank | Alkalinity (Total as CaCO3) | 2012/02/23 | 0.66, RDL=0.50 | | mg/L | | |
| | | Alkalinity (PP as CaCO3) | 2012/02/23 | <0.50 | | mg/L | | |
| | | Bicarbonate (HCO3) | 2012/02/23 | 0.81, RDL=0.50 | | mg/L | | |
| | | Carbonate (CO3) | 2012/02/23 | <0.50 | | mg/L | | |
| | | Hydroxide (OH) | 2012/02/23 | <0.50 | | mg/L | | |
| | | RPD | Alkalinity (Total as CaCO3) | 2012/02/23 | 7.4 | | % | 20 |
| | | | Alkalinity (PP as CaCO3) | 2012/02/23 | NC | | % | 20 |
| | | | Bicarbonate (HCO3) | 2012/02/23 | 7.4 | | % | 20 |
| | | Carbonate (CO3) | 2012/02/23 | NC | | % | 20 | |
| | | Hydroxide (OH) | 2012/02/23 | NC | | % | 20 | |
| 5622155 WAY | Spiked Blank | Conductivity | 2012/02/23 | | 100 | % | 80 - 120 | |
| | Method Blank | Conductivity | 2012/02/23 | <1.0 | | uS/cm | | |
| | RPD | Conductivity | 2012/02/24 | 0 | | % | 20 | |
| 5622276 ZY1 | Matrix Spike | Total Dissolved Solids | 2012/02/29 | | NC | % | 80 - 120 | |
| | Spiked Blank | Total Dissolved Solids | 2012/02/29 | | 104 | % | 80 - 120 | |
| | Method Blank | Total Dissolved Solids | 2012/02/29 | <10 | | mg/L | | |
| | RPD | Total Dissolved Solids | 2012/02/29 | 2.6 | | % | 20 | |
| 5622319 ZY1 | Spiked Blank | Total Suspended Solids | 2012/02/24 | | 105 | % | 80 - 120 | |
| | Method Blank | Total Suspended Solids | 2012/02/24 | <1.0 | | mg/L | | |
| 5622458 BB3 | Matrix Spike | Dissolved Chloride (Cl) | 2012/02/23 | | NC | % | 80 - 120 | |
| | Spiked Blank | Dissolved Chloride (Cl) | 2012/02/23 | | 105 | % | 80 - 120 | |
| | Method Blank | Dissolved Chloride (Cl) | 2012/02/23 | <0.5 | | mg/L | | |
| | RPD | Dissolved Chloride (Cl) | 2012/02/23 | 1.9 | | % | 20 | |
| 5622468 BB3 | Matrix Spike | Dissolved Sulphate (SO4) | 2012/02/23 | | NC | % | 80 - 120 | |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|--------------|---------------------------|-----------------------------|-------|----------|-------|-----------|
| 5622468 BB3 | Spiked Blank | Dissolved Sulphate (SO4) | 2012/02/23 | | 106 | % | 80 - 120 |
| | Method Blank | Dissolved Sulphate (SO4) | 2012/02/23 | <0.50 | | mg/L | |
| | RPD | Dissolved Sulphate (SO4) | 2012/02/23 | 0.4 | | % | 20 |
| 5624669 AA1 | Matrix Spike | Dissolved Aluminum (Al) | 2012/02/27 | | 94 | % | 80 - 120 |
| | | Dissolved Antimony (Sb) | 2012/02/27 | | 114 | % | 80 - 120 |
| | | Dissolved Arsenic (As) | 2012/02/27 | | 104 | % | 80 - 120 |
| | | Dissolved Barium (Ba) | 2012/02/27 | | 97 | % | 80 - 120 |
| | | Dissolved Beryllium (Be) | 2012/02/27 | | 113 | % | 80 - 120 |
| | | Dissolved Bismuth (Bi) | 2012/02/27 | | 101 | % | 80 - 120 |
| | | Dissolved Cadmium (Cd) | 2012/02/27 | | 106 | % | 80 - 120 |
| | | Dissolved Chromium (Cr) | 2012/02/27 | | 93 | % | 80 - 120 |
| | | Dissolved Cobalt (Co) | 2012/02/27 | | 92 | % | 80 - 120 |
| | | Dissolved Copper (Cu) | 2012/02/27 | | NC | % | 80 - 120 |
| | | Dissolved Iron (Fe) | 2012/02/27 | | 100 | % | 80 - 120 |
| | | Dissolved Lead (Pb) | 2012/02/27 | | 102 | % | 80 - 120 |
| | | Dissolved Lithium (Li) | 2012/02/27 | | 100 | % | 80 - 120 |
| | | Dissolved Manganese (Mn) | 2012/02/27 | | 103 | % | 80 - 120 |
| | | Dissolved Molybdenum (Mo) | 2012/02/27 | | 101 | % | 80 - 120 |
| | | Dissolved Nickel (Ni) | 2012/02/27 | | 91 | % | 80 - 120 |
| | | Dissolved Selenium (Se) | 2012/02/27 | | 102 | % | 80 - 120 |
| | | Dissolved Silver (Ag) | 2012/02/27 | | 108 | % | 80 - 120 |
| | | Dissolved Strontium (Sr) | 2012/02/27 | | NC | % | 80 - 120 |
| | | Dissolved Thallium (Tl) | 2012/02/27 | | 85 | % | 80 - 120 |
| | | Dissolved Tin (Sn) | 2012/02/27 | | 135 (2) | % | 80 - 120 |
| | | Dissolved Titanium (Ti) | 2012/02/27 | | 107 | % | 80 - 120 |
| | | Dissolved Uranium (U) | 2012/02/27 | | 91 | % | 80 - 120 |
| | | Dissolved Vanadium (V) | 2012/02/27 | | 92 | % | 80 - 120 |
| | | Dissolved Zinc (Zn) | 2012/02/27 | | NC | % | 80 - 120 |
| | Spiked Blank | Dissolved Aluminum (Al) | 2012/02/27 | | 103 | % | 80 - 120 |
| | | Dissolved Antimony (Sb) | 2012/02/27 | | 114 | % | 80 - 120 |
| | | Dissolved Arsenic (As) | 2012/02/27 | | 103 | % | 80 - 120 |
| | | Dissolved Barium (Ba) | 2012/02/27 | | 100 | % | 80 - 120 |
| | | Dissolved Beryllium (Be) | 2012/02/27 | | 109 | % | 80 - 120 |
| | | Dissolved Bismuth (Bi) | 2012/02/27 | | 105 | % | 80 - 120 |
| | | Dissolved Cadmium (Cd) | 2012/02/27 | | 107 | % | 80 - 120 |
| | | Dissolved Chromium (Cr) | 2012/02/27 | | 97 | % | 80 - 120 |
| | | Dissolved Cobalt (Co) | 2012/02/27 | | 96 | % | 80 - 120 |
| | | Dissolved Copper (Cu) | 2012/02/27 | | 92 | % | 80 - 120 |
| | | Dissolved Iron (Fe) | 2012/02/27 | | 106 | % | 80 - 120 |
| | | Dissolved Lead (Pb) | 2012/02/27 | | 107 | % | 80 - 120 |
| | | Dissolved Lithium (Li) | 2012/02/27 | | 105 | % | 80 - 120 |
| | | Dissolved Manganese (Mn) | 2012/02/27 | | 105 | % | 80 - 120 |
| | | Dissolved Molybdenum (Mo) | 2012/02/27 | | 105 | % | 80 - 120 |
| | | Dissolved Nickel (Ni) | 2012/02/27 | | 93 | % | 80 - 120 |
| | | Dissolved Selenium (Se) | 2012/02/27 | | 106 | % | 80 - 120 |
| | | Dissolved Silver (Ag) | 2012/02/27 | | 113 | % | 80 - 120 |
| | | Dissolved Strontium (Sr) | 2012/02/27 | | 109 | % | 80 - 120 |
| | | Dissolved Thallium (Tl) | 2012/02/27 | | 107 | % | 80 - 120 |
| | | Dissolved Tin (Sn) | 2012/02/27 | | 123 (3) | % | 80 - 120 |
| | | Dissolved Titanium (Ti) | 2012/02/27 | | 97 | % | 80 - 120 |
| | | Dissolved Uranium (U) | 2012/02/27 | | 91 | % | 80 - 120 |
| | | Dissolved Vanadium (V) | 2012/02/27 | | 99 | % | 80 - 120 |
| | | Dissolved Zinc (Zn) | 2012/02/27 | | 102 | % | 80 - 120 |
| | Method Blank | Dissolved Aluminum (Al) | 2012/02/27 | <0.2 | | ug/L | |
| | | Dissolved Antimony (Sb) | 2012/02/27 | <0.02 | | ug/L | |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits | | |
|---------------------------|--------------|------------------------------|-----------------------------|--------------------------|------------|----------|-----------|---|----|
| 5624669 AA1 | Method Blank | Dissolved Arsenic (As) | 2012/02/27 | <0.02 | | ug/L | | | |
| | | Dissolved Barium (Ba) | 2012/02/27 | <0.02 | | ug/L | | | |
| | | Dissolved Beryllium (Be) | 2012/02/27 | <0.01 | | ug/L | | | |
| | | Dissolved Bismuth (Bi) | 2012/02/27 | <0.005 | | ug/L | | | |
| | | Dissolved Boron (B) | 2012/02/27 | <50 | | ug/L | | | |
| | | Dissolved Cadmium (Cd) | 2012/02/27 | <0.005 | | ug/L | | | |
| | | Dissolved Chromium (Cr) | 2012/02/27 | 0.1, RDL=0.1 | | ug/L | | | |
| | | Dissolved Cobalt (Co) | 2012/02/27 | <0.005 | | ug/L | | | |
| | | Dissolved Copper (Cu) | 2012/02/27 | <0.05 | | ug/L | | | |
| | | Dissolved Iron (Fe) | 2012/02/27 | <1 | | ug/L | | | |
| | | Dissolved Lead (Pb) | 2012/02/27 | <0.005 | | ug/L | | | |
| | | Dissolved Lithium (Li) | 2012/02/27 | <0.5 | | ug/L | | | |
| | | Dissolved Manganese (Mn) | 2012/02/27 | <0.05 | | ug/L | | | |
| | | Dissolved Molybdenum (Mo) | 2012/02/27 | <0.05 | | ug/L | | | |
| | | Dissolved Nickel (Ni) | 2012/02/27 | <0.02 | | ug/L | | | |
| | | Dissolved Selenium (Se) | 2012/02/27 | <0.04 | | ug/L | | | |
| | | Dissolved Silicon (Si) | 2012/02/27 | <100 | | ug/L | | | |
| | | Dissolved Silver (Ag) | 2012/02/27 | 0.005, RDL=0.005 | | ug/L | | | |
| | | Dissolved Strontium (Sr) | 2012/02/27 | <0.05 | | ug/L | | | |
| | | Dissolved Thallium (Tl) | 2012/02/27 | <0.002 | | ug/L | | | |
| | | Dissolved Tin (Sn) | 2012/02/27 | <0.2 | | ug/L | | | |
| | | Dissolved Titanium (Ti) | 2012/02/27 | <0.5 | | ug/L | | | |
| | | Dissolved Uranium (U) | 2012/02/27 | <0.002 | | ug/L | | | |
| | | Dissolved Vanadium (V) | 2012/02/27 | 0.3, RDL=0.2 | | ug/L | | | |
| | | Dissolved Zinc (Zn) | 2012/02/27 | <0.1 | | ug/L | | | |
| | | Dissolved Zirconium (Zr) | 2012/02/27 | <0.1 | | ug/L | | | |
| | | RPD | | Dissolved Aluminum (Al) | 2012/02/27 | 26.3 (4) | | % | 20 |
| | | | | Dissolved Antimony (Sb) | 2012/02/27 | NC | | % | 20 |
| | | | | Dissolved Arsenic (As) | 2012/02/27 | 5.3 | | % | 20 |
| | | | | Dissolved Barium (Ba) | 2012/02/27 | 2.8 | | % | 20 |
| | | | | Dissolved Beryllium (Be) | 2012/02/27 | NC | | % | 20 |
| | | | | Dissolved Bismuth (Bi) | 2012/02/27 | NC | | % | 20 |
| | | | | Dissolved Boron (B) | 2012/02/27 | NC | | % | 20 |
| Dissolved Cadmium (Cd) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Chromium (Cr) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Cobalt (Co) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Copper (Cu) | 2012/02/27 | | | 2.8 | | % | 20 | | |
| Dissolved Iron (Fe) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Lead (Pb) | 2012/02/27 | | | 1.7 | | % | 20 | | |
| Dissolved Lithium (Li) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Manganese (Mn) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Molybdenum (Mo) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Nickel (Ni) | 2012/02/27 | | | 23.4 (4) | | % | 20 | | |
| Dissolved Selenium (Se) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Silicon (Si) | 2012/02/27 | | | 0.8 | | % | 20 | | |
| Dissolved Silver (Ag) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Strontium (Sr) | 2012/02/27 | | | 0.7 | | % | 20 | | |
| Dissolved Thallium (Tl) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Tin (Sn) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Titanium (Ti) | 2012/02/27 | | | NC | | % | 20 | | |
| Dissolved Uranium (U) | 2012/02/27 | | | 3.4 | | % | 20 | | |
| Dissolved Vanadium (V) | 2012/02/27 | | | 0.02 | | % | 20 | | |
| Dissolved Zinc (Zn) | 2012/02/27 | | | 1.6 | | % | 20 | | |
| Dissolved Zirconium (Zr) | 2012/02/27 | NC | | % | 20 | | | | |
| 5624864 IC4 | Matrix Spike | Dissolved Organic Carbon (C) | 2012/02/24 | | NC | % | 80 - 120 | | |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|--------------|------------------------------|-----------------------------|-------|----------|-------|-----------|
| 5624864 IC4 | Spiked Blank | Dissolved Organic Carbon (C) | 2012/02/24 | | 108 | % | 80 - 120 |
| | Method Blank | Dissolved Organic Carbon (C) | 2012/02/24 | <0.50 | | mg/L | |
| | RPD | Dissolved Organic Carbon (C) | 2012/02/24 | NC | | % | 20 |
| 5624876 IC4 | Matrix Spike | Total Organic Carbon (C) | 2012/02/24 | | 112 | % | 80 - 120 |
| | Spiked Blank | Total Organic Carbon (C) | 2012/02/24 | | 109 | % | 80 - 120 |
| | Method Blank | Total Organic Carbon (C) | 2012/02/24 | <0.50 | | mg/L | |
| | RPD | Total Organic Carbon (C) | 2012/02/24 | NC | | % | 20 |
| 5624893 AA1 | Matrix Spike | Total Aluminum (Al) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Antimony (Sb) | 2012/02/28 | | 112 | % | 80 - 120 |
| | | Total Arsenic (As) | 2012/02/28 | | 107 | % | 80 - 120 |
| | | Total Barium (Ba) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Beryllium (Be) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Bismuth (Bi) | 2012/02/28 | | 98 | % | 80 - 120 |
| | | Total Cadmium (Cd) | 2012/02/28 | | 104 | % | 80 - 120 |
| | | Total Chromium (Cr) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Cobalt (Co) | 2012/02/28 | | 102 | % | 80 - 120 |
| | | Total Copper (Cu) | 2012/02/28 | | 98 | % | 80 - 120 |
| | | Total Iron (Fe) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Lead (Pb) | 2012/02/28 | | 97 | % | 80 - 120 |
| | | Total Lithium (Li) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Manganese (Mn) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Molybdenum (Mo) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Nickel (Ni) | 2012/02/28 | | 100 | % | 80 - 120 |
| | | Total Selenium (Se) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Silver (Ag) | 2012/02/28 | | 105 | % | 80 - 120 |
| | | Total Strontium (Sr) | 2012/02/28 | | NC | % | 80 - 120 |
| | | Total Thallium (Tl) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Tin (Sn) | 2012/02/28 | | 118 | % | 80 - 120 |
| | | Total Titanium (Ti) | 2012/02/28 | | 91 | % | 80 - 120 |
| | | Total Uranium (U) | 2012/02/28 | | 105 | % | 80 - 120 |
| | | Total Vanadium (V) | 2012/02/28 | | 105 | % | 80 - 120 |
| | | Total Zinc (Zn) | 2012/02/28 | | NC | % | 80 - 120 |
| | Spiked Blank | Total Aluminum (Al) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Antimony (Sb) | 2012/02/28 | | 97 | % | 80 - 120 |
| | | Total Arsenic (As) | 2012/02/28 | | 100 | % | 80 - 120 |
| | | Total Barium (Ba) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Beryllium (Be) | 2012/02/28 | | 96 | % | 80 - 120 |
| | | Total Bismuth (Bi) | 2012/02/28 | | 98 | % | 80 - 120 |
| | | Total Cadmium (Cd) | 2012/02/28 | | 98 | % | 80 - 120 |
| | | Total Chromium (Cr) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Cobalt (Co) | 2012/02/28 | | 102 | % | 80 - 120 |
| | | Total Copper (Cu) | 2012/02/28 | | 100 | % | 80 - 120 |
| | | Total Iron (Fe) | 2012/02/28 | | 103 | % | 80 - 120 |
| | | Total Lead (Pb) | 2012/02/28 | | 99 | % | 80 - 120 |
| | | Total Lithium (Li) | 2012/02/28 | | 98 | % | 80 - 120 |
| | | Total Manganese (Mn) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Molybdenum (Mo) | 2012/02/28 | | 93 | % | 80 - 120 |
| | | Total Nickel (Ni) | 2012/02/28 | | 104 | % | 80 - 120 |
| | | Total Selenium (Se) | 2012/02/28 | | 100 | % | 80 - 120 |
| | | Total Silver (Ag) | 2012/02/28 | | 103 | % | 80 - 120 |
| | | Total Strontium (Sr) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Thallium (Tl) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Tin (Sn) | 2012/02/28 | | 100 | % | 80 - 120 |
| | | Total Titanium (Ti) | 2012/02/28 | | 101 | % | 80 - 120 |
| | | Total Uranium (U) | 2012/02/28 | | 101 | % | 80 - 120 |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|----------------------|-----------------------|-----------------------------|------------------|----------|-------|-----------|
| 5624893 AA1 | Spiked Blank | Total Vanadium (V) | 2012/02/28 | | 104 | % | 80 - 120 |
| | | Total Zinc (Zn) | 2012/02/28 | | 100 | % | 80 - 120 |
| | Method Blank | Total Aluminum (Al) | 2012/02/28 | <0.2 | | ug/L | |
| | | Total Antimony (Sb) | 2012/02/28 | <0.02 | | ug/L | |
| | | Total Arsenic (As) | 2012/02/28 | <0.02 | | ug/L | |
| | | Total Barium (Ba) | 2012/02/28 | <0.02 | | ug/L | |
| | | Total Beryllium (Be) | 2012/02/28 | <0.01 | | ug/L | |
| | | Total Bismuth (Bi) | 2012/02/28 | <0.005 | | ug/L | |
| | | Total Boron (B) | 2012/02/28 | <50 | | ug/L | |
| | | Total Cadmium (Cd) | 2012/02/28 | 0.005, RDL=0.005 | | ug/L | |
| | | Total Chromium (Cr) | 2012/02/28 | <0.1 | | ug/L | |
| | | Total Cobalt (Co) | 2012/02/28 | <0.005 | | ug/L | |
| | | Total Copper (Cu) | 2012/02/28 | <0.05 | | ug/L | |
| | | Total Iron (Fe) | 2012/02/28 | <1 | | ug/L | |
| | | Total Lead (Pb) | 2012/02/28 | <0.005 | | ug/L | |
| | | Total Lithium (Li) | 2012/02/28 | <0.5 | | ug/L | |
| | | Total Manganese (Mn) | 2012/02/28 | <0.05 | | ug/L | |
| | | Total Molybdenum (Mo) | 2012/02/28 | <0.05 | | ug/L | |
| | | Total Nickel (Ni) | 2012/02/28 | <0.02 | | ug/L | |
| | | Total Selenium (Se) | 2012/02/28 | <0.04 | | ug/L | |
| | | Total Silicon (Si) | 2012/02/28 | <100 | | ug/L | |
| | | Total Silver (Ag) | 2012/02/28 | <0.005 | | ug/L | |
| | | Total Strontium (Sr) | 2012/02/28 | <0.05 | | ug/L | |
| | | Total Thallium (Tl) | 2012/02/28 | <0.002 | | ug/L | |
| | | Total Tin (Sn) | 2012/02/28 | <0.2 | | ug/L | |
| | | Total Titanium (Ti) | 2012/02/28 | <0.5 | | ug/L | |
| | | Total Uranium (U) | 2012/02/28 | <0.002 | | ug/L | |
| | | Total Vanadium (V) | 2012/02/28 | <0.2 | | ug/L | |
| | | Total Zinc (Zn) | 2012/02/28 | <0.1 | | ug/L | |
| | RPD | Total Zirconium (Zr) | 2012/02/28 | <0.1 | | ug/L | |
| | | Total Aluminum (Al) | 2012/02/28 | 0.1 | | % | 20 |
| | | Total Antimony (Sb) | 2012/02/28 | NC | | % | 20 |
| | | Total Arsenic (As) | 2012/02/28 | 5.7 | | % | 20 |
| | | Total Barium (Ba) | 2012/02/28 | 0.4 | | % | 20 |
| | | Total Beryllium (Be) | 2012/02/28 | NC | | % | 20 |
| | | Total Bismuth (Bi) | 2012/02/28 | 7.1 | | % | 20 |
| | | Total Boron (B) | 2012/02/28 | NC | | % | 20 |
| | | Total Cadmium (Cd) | 2012/02/28 | 1.7 | | % | 20 |
| | | Total Chromium (Cr) | 2012/02/28 | 0.7 | | % | 20 |
| | | Total Cobalt (Co) | 2012/02/28 | 2.5 | | % | 20 |
| | | Total Copper (Cu) | 2012/02/28 | 1 | | % | 20 |
| | | Total Iron (Fe) | 2012/02/28 | 0.4 | | % | 20 |
| | | Total Lead (Pb) | 2012/02/28 | 1.4 | | % | 20 |
| | | Total Lithium (Li) | 2012/02/28 | 2.4 | | % | 20 |
| | | Total Manganese (Mn) | 2012/02/28 | 1.6 | | % | 20 |
| | | Total Molybdenum (Mo) | 2012/02/28 | 1.7 | | % | 20 |
| | | Total Nickel (Ni) | 2012/02/28 | 1.0 | | % | 20 |
| | | Total Selenium (Se) | 2012/02/28 | 1 | | % | 20 |
| | | Total Silicon (Si) | 2012/02/28 | 0.4 | | % | 20 |
| | Total Silver (Ag) | 2012/02/28 | NC | | % | 20 | |
| | Total Strontium (Sr) | 2012/02/28 | 0.5 | | % | 20 | |
| | Total Thallium (Tl) | 2012/02/28 | NC | | % | 20 | |
| | Total Tin (Sn) | 2012/02/28 | NC | | % | 20 | |
| | Total Titanium (Ti) | 2012/02/28 | NC | | % | 20 | |
| | Total Uranium (U) | 2012/02/28 | 1.5 | | % | 20 | |

DENISON ENVIRONMENTAL SERVICES
 Attention: KEVIN RAMSAY
 Client Project #: FEBUARY 16, 20 & 21, 2012
 P.O. #:
 Site Location:

Quality Assurance Report (Continued)

Maxxam Job Number: VB214923

| QA/QC Batch | QC Type | Parameter | Date Analyzed yyyy/mm/dd | Value | Recovery | Units | QC Limits |
|-------------|--------------|--------------------------|-----------------------------|--------|----------|-------|-----------|
| 5624893 AA1 | RPD | Total Vanadium (V) | 2012/02/28 | NC | | % | 20 |
| | | Total Zinc (Zn) | 2012/02/28 | 0.7 | | % | 20 |
| | | Total Zirconium (Zr) | 2012/02/28 | NC | | % | 20 |
| 5625174 TL2 | Matrix Spike | Nitrate plus Nitrite (N) | 2012/02/24 | | NC | % | 80 - 120 |
| | Spiked Blank | Nitrate plus Nitrite (N) | 2012/02/24 | | 105 | % | 80 - 120 |
| | Method Blank | Nitrate plus Nitrite (N) | 2012/02/24 | <0.020 | | mg/L | |
| | RPD | Nitrate plus Nitrite (N) | 2012/02/24 | 0.6 | | % | 25 |
| 5625175 TL2 | Matrix Spike | Nitrite (N) | 2012/02/24 | | 98 | % | 80 - 120 |
| | Spiked Blank | Nitrite (N) | 2012/02/24 | | 100 | % | 80 - 120 |
| | Method Blank | Nitrite (N) | 2012/02/24 | <0.005 | | mg/L | |
| | RPD | Nitrite (N) | 2012/02/24 | NC | | % | 20 |
| 5625675 BB3 | Matrix Spike | Dissolved Chloride (Cl) | 2012/02/24 | | 112 | % | 80 - 120 |
| | Spiked Blank | Dissolved Chloride (Cl) | 2012/02/24 | | 103 | % | 80 - 120 |
| | Method Blank | Dissolved Chloride (Cl) | 2012/02/24 | <0.5 | | mg/L | |
| | RPD | Dissolved Chloride (Cl) | 2012/02/24 | NC | | % | 20 |
| 5625677 BB3 | Matrix Spike | Dissolved Sulphate (SO4) | 2012/02/24 | | NC | % | 80 - 120 |
| | Spiked Blank | Dissolved Sulphate (SO4) | 2012/02/24 | | 96 | % | 80 - 120 |
| | Method Blank | Dissolved Sulphate (SO4) | 2012/02/24 | <0.50 | | mg/L | |
| | RPD | Dissolved Sulphate (SO4) | 2012/02/24 | 3.6 | | % | 20 |
| 5626296 ZY1 | Spiked Blank | Total Suspended Solids | 2012/02/28 | | 99 | % | 80 - 120 |
| | Method Blank | Total Suspended Solids | 2012/02/28 | <1.0 | | mg/L | |
| 5630044 ZY1 | Matrix Spike | Total Dissolved Solids | 2012/02/28 | | NC | % | 80 - 120 |
| | Spiked Blank | Total Dissolved Solids | 2012/02/28 | | 98 | % | 80 - 120 |
| | Method Blank | Total Dissolved Solids | 2012/02/28 | <10 | | mg/L | |
| | RPD | Total Dissolved Solids | 2012/02/27 | 7.1 | | % | 20 |
| 5640106 AA1 | Spiked Blank | Dissolved Nickel (Ni) | 2012/03/01 | | 97 | % | 80 - 120 |
| | Method Blank | Dissolved Nickel (Ni) | 2012/03/01 | <0.02 | | 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) RDL raised due to sample matrix interference.

Matrix spike exceeds acceptance limits due to matrix interference. Re-analysis yields similar results.

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

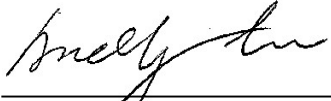
(3) Blank Spike outside acceptance criteria (10% of analytes failure allowed).

(4) Recovery or RPD for this parameter is outside control limits. The overall quality control for this analysis meets acceptability criteria.

Validation Signature Page

Maxxam Job #: B214923

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



ANDY LU, Data Validation Coordinator



David Huang, BBY Scientific Specialist

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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.



Burnaby: 4606 Canada Way, Burnaby, BC V5G 1K5 Ph: (604) 734-7276 Fax: (604) 731-2386, Toll Free: (800) 665-8566

CHAIN OF CUSTODY RECORD

Maxxam Job #: B214923

COC #: _____



Invoice To: Require Report? Yes No

Company Name: #4337 Denison Environmental Services
 Contact Name: Kevin Ramsay
 Address: Box 280, Faro, Yukon PC: Y0B 1K0
 Phone / Fax#: Ph: 867-994-2600 Fax: _____
 E-mail: kramsay@denisonenvironmental.com

Report To: #4337 Denison Environmental Services
 Contact Name: Kevin Ramsay
 Address: Box 280, Faro, Yukon PC: Y0B 1K0
 Phone / Fax#: Ph: 867-994-2600 Fax: _____
 E-mail: kramsay@denisonenvironmental.com

PO #: _____
 Quotation #: _____
 Project #: _____
 Proj. Name: February 16, 20 & 21, 2012
 Location: Faro Mine Complex
 Sampled by: T. Parkin / N. Gardiner / K. Ramsay

- REGULATORY REQUIREMENTS: CSR CCME BC Water Quality Other DRINKING WATER
- SERVICE REQUESTED:
 Regular Turn Around Time (TAT) (5 days for most tests)
 RUSH (Please contact the lab)
 1 Day 2 Day 3 Day
 Date Required: _____

SPECIAL INSTRUCTIONS: Return Cooler Ship Sample Bottles (please specify)

| Sample Identification | Lab Identification | Sample Type | Date/Time(24hr) Sampled | REGULATORY REQUIREMENTS | | | | | | | | ANALYSIS REQUESTED | | | | | | | | | | | | | | | | | | | | | | | |
|-----------------------|--------------------|-------------|----------------------------|----------------------------|------------|-------------------|----|-----------------------------|----------|------------------------------|------------------------------|--------------------------------|---------|-------------------|------------------------|-----------------|----------------------------|-----------------|------------------|----------------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|-----------------|------------------|---|---|---|---|
| | | | | DL - Dissolved Metals (DM) | | DL - Total Metals | | CSR - Dissolved Metals (DM) | | CSR - Total Metals | | Dissolved Organic Carbon (DOC) | | Dissolved Mercury | | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | Field Filtered? | Field Acidified? | | | | |
| | | | | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N | Y | N |
| Lab Use Only | | | | Acidity | Alkalinity | Chloride | pH | Conductance (EC) | Sulphate | Total Dissolved Solids (TDS) | Total Suspended Solids (TSS) | Ammonia | Nitrate | Hardness | LDL - Total Phosphorus | Colour | Total Organic Carbon (TOC) | Total Mercury | Cyanide | Number of Containers | | | | | | | | | | | | | | | |
| 1 V27 | 600656 | Surface W | 12/02/21 11:00 | X | X | | | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | 6 | |
| 2 V4 | 657 | Surface W | 12/02/21 11:30 | X | X | | | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | 6 | |
| 3 V5 | 658 | Surface W | 12/02/21 15:53 | X | X | | | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | 6 | |
| 4 V8 | 659 | Surface W | 12/02/20 14:15 | X | X | | | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | 6 | |
| 5 SPLIT 1 | 660 | Surface W | 12/02/20 14:25 | X | X | | | | X | | | | | | | | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | | | 6 | |
| 6 A30 | 661 | Seepage | 12/02/16 16:40 | | | | | X | | | | | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | | 3 | |
| 7 FD-40 | 662 | Seepage | 12/02/16 15:05 | | | | | X | | | | | X | X | X | X | X | X | X | X | X | | | | | | | | | | | | | | 3 |
| 8 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 11 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 12 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Print name and sign _____ Print name and sign _____

8214923

| *Relinquished By: | Date (yy/mm/dd): | Time (24hr): | Received by: | Date (yy/mm/dd): | Time (24 hr): | Time Sensitive | Temperature on Receipt (°C) | Custody Seal | Yes | No |
|-------------------|------------------|--------------|--------------------|------------------|---------------|-------------------------------------|--|--------------|--------------------------|--------------------------|
| K. Ramsay | 12/02/21 | 18:00 | <i>[Signature]</i> | 12/02/22 | 14:55 | <input checked="" type="checkbox"/> | A) 6 B) 10 C) 8 | Present? | <input type="checkbox"/> | <input type="checkbox"/> |
| | | | | | | | Just sampled & rec'd on ice <input type="checkbox"/> | Intact? | <input type="checkbox"/> | <input type="checkbox"/> |

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORDS. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

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