



August 24, 2020

Johnny Pappas
Arizona Minerals Inc.
2210 E. Fort Lowell Rd
Tucson, AZ 85719

TEL (802) 235-5563
FAX

RE: Storm Water

Work Order No.: 17H0588
Order Name: Hermosa Taylor
Deposit

Dear Johnny Pappas,

Turner Laboratories, Inc. received 2 sample(s) on 08/15/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Kevin Brim
Project Manager

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

Order: Hermosa Taylor Deposit

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17H0588-01 | Alta | Storm Water | 08/15/2017 0819 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

Case Narrative

- B7 Target analyte detected in method blank at or above the method reporting limit. Concentration found in the sample was 10 times above the concentration found in the method blank.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.
- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor
-

Turner Laboratories, Inc.

Date: 08/24/2020

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 17H0588
 Lab Sample ID: 17H0588-01

Client Sample ID: Alta
 Collection Date/Time: 08/15/2017 0819
 Matrix: Storm Water
 Order Name: Hermosa Taylor Deposit

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|--------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 150 | | | | mg/L | 1 | 08/18/2017 1603 | 08/21/2017 1408 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1214 | MH |
| Zinc | ND | | 0.040 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1214 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0010 | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Arsenic | 0.0051 | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Cadmium | ND | | 0.00025 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Copper | 0.0027 | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Manganese | 0.048 | | 0.00025 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Nickel | 0.0021 | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Selenium | ND | 0.00025 | 0.0025 | E4 | mg/L | 1 | 08/28/2017 1500 | 08/28/2017 2011 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 08/28/2017 1500 | 08/29/2017 1502 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000094 | 0.0010 | E8 | mg/L | 1 | 08/28/2017 1230 | 08/28/2017 1841 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 31 | | 4.0 | | mg/L | 1 | 08/18/2017 1603 | 08/21/2017 1408 | MH |
| Iron | 21 | | 0.30 | | mg/L | 1 | 08/18/2017 1603 | 08/21/2017 1408 | MH |
| Magnesium | 18 | | 3.0 | | mg/L | 1 | 08/18/2017 1603 | 08/21/2017 1408 | MH |
| Zinc | 0.24 | | 0.040 | | mg/L | 1 | 08/18/2017 1603 | 08/21/2017 1408 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0021 | | 0.00050 | | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| Arsenic | 0.044 | | 0.0050 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Lab Sample ID: 17H0588-01

Client Sample ID: Alta
Collection Date/Time: 08/15/2017 0819
Matrix: Storm Water
Order Name: Hermosa Taylor Deposit

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Beryllium | 0.00063 | | 0.00025 | | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| Cadmium | 0.00076 | | 0.00025 | | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| Chromium | 0.012 | | 0.0050 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |
| Copper | 0.050 | | 0.0050 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |
| Lead | 0.12 | | 0.0050 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |
| Manganese | 1.9 | | 0.0025 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |
| Nickel | 0.016 | | 0.0050 | | mg/L | 10 | 08/21/2017 1200 | 08/22/2017 1626 | MH |
| Selenium | ND | 0.00025 | 0.0025 | E4 | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| Silver | 0.00093 | | 0.00050 | | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 08/21/2017 1200 | 08/23/2017 1255 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 08/18/2017 1220 | 08/18/2017 1715 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 310 | | 10 | | mg/L | 1 | 08/21/2017 1945 | 08/22/2017 1600 | LH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---|--------|------|-----------|------|
| Batch 1708256 - E245.1 | | | | | | | | | | |
| Blank (1708256-BLK1) | | | | Prepared & Analyzed: 08/18/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708256-BS1) | | | | Prepared & Analyzed: 08/18/2017 | | | | | | |
| Mercury | 0.0055 | 0.0010 | mg/L | 0.005000 | | 110 | 85-115 | | | |
| LCS Dup (1708256-BSD1) | | | | Prepared & Analyzed: 08/18/2017 | | | | | | |
| Mercury | 0.0056 | 0.0010 | mg/L | 0.005000 | | 112 | 85-115 | 2 | 20 | |
| Matrix Spike (1708256-MS1) | | | | Source: 17H0609-01 | | Prepared & Analyzed: 08/18/2017 | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 108 | 85-115 | | | |
| Matrix Spike (1708256-MS2) | | | | Source: 17H0609-02 | | Prepared & Analyzed: 08/18/2017 | | | | |
| Mercury | 0.0055 | 0.0010 | mg/L | 0.005000 | ND | 109 | 85-115 | | | |
| Matrix Spike Dup (1708256-MSD1) | | | | Source: 17H0609-01 | | Prepared & Analyzed: 08/18/2017 | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 108 | 85-115 | 0.07 | 20 | |
| Matrix Spike Dup (1708256-MSD2) | | | | Source: 17H0609-02 | | Prepared & Analyzed: 08/18/2017 | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 109 | 85-115 | 0.3 | 20 | |
| Batch 1708257 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1708257-BLK1) | | | | Prepared: 08/17/2017 Analyzed: 08/21/2017 | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1708257-BS1) | | | | Prepared: 08/17/2017 Analyzed: 08/21/2017 | | | | | | |
| Calcium | 9.5 | 4.0 | mg/L | 10.00 | | 95 | 85-115 | | | |
| Iron | 0.97 | 0.30 | mg/L | 1.000 | | 97 | 85-115 | | | |
| Magnesium | 9.5 | 3.0 | mg/L | 10.00 | | 95 | 85-115 | | | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 93 | 85-115 | | | |
| LCS Dup (1708257-BSD1) | | | | Prepared: 08/17/2017 Analyzed: 08/21/2017 | | | | | | |
| Calcium | 9.5 | 4.0 | mg/L | 10.00 | | 95 | 85-115 | 0.1 | 20 | |
| Iron | 0.97 | 0.30 | mg/L | 1.000 | | 97 | 85-115 | 0.2 | 20 | |
| Magnesium | 9.5 | 3.0 | mg/L | 10.00 | | 95 | 85-115 | 0.3 | 20 | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 93 | 85-115 | 0.2 | 20 | |
| Matrix Spike (1708257-MS1) | | | | Source: 17H0482-02 | | Prepared: 08/17/2017 Analyzed: 08/21/2017 | | | | |
| Calcium | 210 | 4.0 | mg/L | 10.00 | 200 | 58 | 70-130 | | | M3 |
| Iron | 1.6 | 0.30 | mg/L | 1.000 | 0.90 | 70 | 70-130 | | | |
| Magnesium | 49 | 3.0 | mg/L | 10.00 | 40 | 90 | 70-130 | | | |
| Zinc | 0.65 | 0.040 | mg/L | 0.5000 | 0.16 | 97 | 70-130 | | | |
| Matrix Spike (1708257-MS2) | | | | Source: 17H0550-03 | | Prepared: 08/17/2017 Analyzed: 08/21/2017 | | | | |
| Calcium | 61 | 4.0 | mg/L | 10.00 | 51 | 104 | 70-130 | | | |
| Iron | 1.5 | 0.30 | mg/L | 1.000 | 0.44 | 105 | 70-130 | | | |
| Magnesium | 18 | 3.0 | mg/L | 10.00 | 8.2 | 97 | 70-130 | | | |
| Zinc | 0.64 | 0.040 | mg/L | 0.5000 | 0.18 | 93 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limits | RPD | RPD Limit | Qual |
|---------|--------|-----------------|-------|-------------|---------------|-----------|--------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|---------------|-----------|--------|-----|-----------|------|

Batch 1708280 - E200.8 (5.4)

Blank (1708280-BLK1)

Prepared: 08/21/2017 Analyzed: 08/22/2017

| | | | | | | | | | | |
|-----------|--------|---------|------|--|--|--|--|--|--|----|
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | 0.0013 | 0.00025 | mg/L | | | | | | | B7 |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

LCS (1708280-BS1)

Prepared: 08/21/2017 Analyzed: 08/22/2017

| | | | | | | | | | | |
|-----------|-------|---------|------|---------|--|-----|--------|--|--|--|
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Arsenic | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Manganese | 0.048 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | | 96 | 85-115 | | | |
| Silver | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |

LCS Dup (1708280-BSD1)

Prepared: 08/21/2017 Analyzed: 08/22/2017

| | | | | | | | | | | |
|-----------|-------|---------|------|---------|--|-----|--------|-------|----|--|
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 1 | 20 | |
| Arsenic | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 0.8 | 20 | |
| Beryllium | 0.049 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 99 | 85-115 | 1 | 20 | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 1 | 20 | |
| Copper | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 1 | 20 | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.004 | 20 | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 3 | 20 | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | | 96 | 85-115 | 0.2 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.7 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---|-------|-------------|---|------|-------------|------|-----------|------|
| Batch 1708280 - E200.8 (5.4) | | | | | | | | | | |
| Matrix Spike (1708280-MS1) | | Source: 17H0385-02RE1 | | | Prepared: 08/21/2017 Analyzed: 08/22/2017 | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00014 | 100 | 70-130 | | | |
| Arsenic | 0.061 | 0.00050 | mg/L | 0.05000 | 0.0096 | 104 | 70-130 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | ND | 95 | 70-130 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | ND | 99 | 70-130 | | | |
| Chromium | 0.070 | 0.00050 | mg/L | 0.05000 | 0.0079 | 123 | 70-130 | | | |
| Copper | 0.052 | 0.00050 | mg/L | 0.05000 | 0.0041 | 96 | 70-130 | | | |
| Lead | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0024 | 102 | 70-130 | | | |
| Manganese | 0.062 | 0.00025 | mg/L | 0.05000 | 0.0012 | 122 | 70-130 | | | |
| Nickel | 0.063 | 0.00050 | mg/L | 0.05000 | 0.000050 | 125 | 70-130 | | | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | 0.00043 | 98 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | | 84 | 70-130 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | ND | 98 | 70-130 | | | |
| Batch 1708362 - E 245.1 | | | | | | | | | | |
| Blank (1708362-BLK1) | | Prepared & Analyzed: 08/28/2017 | | | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708362-BS1) | | Prepared & Analyzed: 08/28/2017 | | | | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | | 103 | 85-115 | | | |
| LCS Dup (1708362-BSD1) | | Prepared & Analyzed: 08/28/2017 | | | | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | | 103 | 85-115 | 0.05 | 20 | |
| Matrix Spike (1708362-MS1) | | Source: 17H0675-01 | | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | | | |
| Matrix Spike (1708362-MS2) | | Source: 17H0675-02 | | | Prepared & Analyzed: 08/28/2017 | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 102 | 85-115 | | | |
| Matrix Spike Dup (1708362-MSD1) | | Source: 17H0675-01 | | | Prepared & Analyzed: 08/28/2017 | | | | | |
| Mercury | 0.0050 | 0.0010 | mg/L | 0.005000 | ND | 99 | 85-115 | 3 | 20 | |
| Matrix Spike Dup (1708362-MSD2) | | Source: 17H0675-02 | | | Prepared & Analyzed: 08/28/2017 | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | 0.9 | 20 | |
| Batch 1708364 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1708364-BLK1) | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|------|-----------|------|
| Batch 1708364 - E 200.8 (5.4) | | | | | | | | | | |
| LCS (1708364-BS1) | | | | | | | | | | |
| | | | | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Nickel | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 100 | 85-115 | | | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| LCS Dup (1708364-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.1 | 20 | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.1 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | 0.3 | 20 | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.7 | 20 | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.1 | 20 | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.5 | 20 | |
| Manganese | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.5 | 20 | |
| Nickel | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | 0.05 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 101 | 85-115 | 1 | 20 | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.1 | 20 | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.01 | 20 | |
| Matrix Spike (1708364-MS1) | | | | | | | | | | |
| | | Source: 17H0588-01 | | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0010 | 98 | 70-130 | | | |
| Arsenic | 0.061 | 0.00050 | mg/L | 0.05000 | 0.0051 | 112 | 70-130 | | | |
| Beryllium | 0.047 | 0.00025 | mg/L | 0.05000 | 0.000015 | 93 | 70-130 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.000062 | 95 | 70-130 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00016 | 101 | 70-130 | | | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | 0.0027 | 91 | 70-130 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00020 | 99 | 70-130 | | | |
| Manganese | 0.099 | 0.00025 | mg/L | 0.05000 | 0.048 | 101 | 70-130 | | | |
| Nickel | 0.051 | 0.00050 | mg/L | 0.05000 | 0.0021 | 97 | 70-130 | | | |
| Selenium | 0.26 | 0.0025 | mg/L | 0.2500 | 0.00087 | 104 | 70-130 | | | |
| Silver | 0.043 | 0.00050 | mg/L | 0.05000 | 0.000025 | 87 | 70-130 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | 0.000059 | 99 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch 1708364 - E 200.8 (5.4)

| Matrix Spike (1708364-MS2) | Source: 17H0589-01 | | | Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | |
|-----------------------------------|---------------------------|---------|------|--|----------|-----|--------|--|--|--|
| Antimony | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00063 | 100 | 70-130 | | | |
| Arsenic | 0.058 | 0.00050 | mg/L | 0.05000 | 0.0010 | 115 | 70-130 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | 0.000039 | 92 | 70-130 | | | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | 0.00080 | 96 | 70-130 | | | |
| Chromium | 0.054 | 0.00050 | mg/L | 0.05000 | ND | 107 | 70-130 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0059 | 89 | 70-130 | | | |
| Lead | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00062 | 100 | 70-130 | | | |
| Manganese | 0.33 | 0.00025 | mg/L | 0.05000 | 0.27 | 107 | 70-130 | | | |
| Nickel | 0.056 | 0.00050 | mg/L | 0.05000 | 0.0049 | 102 | 70-130 | | | |
| Selenium | 0.26 | 0.0025 | mg/L | 0.2500 | 0.00091 | 105 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | 0.000053 | 85 | 70-130 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00014 | 101 | 70-130 | | | |

Batch 1708369 - E 200.7 (4.4)

| Blank (1708369-BLK1) | Prepared & Analyzed: 08/29/2017 | | | | | | | | | |
|-----------------------------|--|-------|------|--|--|--|--|--|--|--|
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |

| LCS (1708369-BS1) | Prepared & Analyzed: 08/29/2017 | | | | | | | | | |
|--------------------------|--|-------|------|--------|--|-----|--------|--|--|--|
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 102 | 85-115 | | | |
| Zinc | 0.51 | 0.040 | mg/L | 0.5000 | | 102 | 85-115 | | | |

| LCS Dup (1708369-BSD1) | Prepared & Analyzed: 08/29/2017 | | | | | | | | | |
|-------------------------------|--|-------|------|--------|--|-----|--------|-----|----|--|
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 102 | 85-115 | 0.6 | 20 | |
| Zinc | 0.51 | 0.040 | mg/L | 0.5000 | | 102 | 85-115 | 0.1 | 20 | |

| Matrix Spike (1708369-MS1) | Source: 17H0588-02 | | | Prepared & Analyzed: 08/29/2017 | | | | | | |
|-----------------------------------|---------------------------|-------|------|--|-------|-----|--------|--|--|--|
| Iron | 1.2 | 0.30 | mg/L | 1.000 | 0.062 | 110 | 70-130 | | | |
| Zinc | 0.60 | 0.040 | mg/L | 0.5000 | 0.094 | 101 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0588
Date Received: 08/15/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1708252 - SM2540 D | | | | | | | | | | |
| Duplicate (1708252-DUP1) | | Source: 17H0482-01 | | | Prepared: 08/21/2017 Analyzed: 08/22/2017 | | | | | |
| Total Suspended Solids | 1.0 | 10 | mg/L | | 1.0 | | | 0 | 5 | |
| Duplicate (1708252-DUP2) | | Source: 17H0588-01 | | | Prepared: 08/21/2017 Analyzed: 08/22/2017 | | | | | |
| Total Suspended Solids | 310 | 10 | mg/L | | 310 | | | 0.6 | 5 | |

STORMWATER SAMPLE FORM

Field Staff Sheila Oliver Company AMI Weather clear sky
 Notes _____ Rainfall (inches) ALTA - .7
 _____ Trench - 1.00

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|-----------|------------|-------------|--------------|---------|------|-------------------------------|-----------------|--|
| ALTA | 8-15-17 | | 8-15-17 | 8:19 | 22.1°C | 7.44 | 320.8 | 1100 | murky, light brown |
| outfall 1 | 8-15-17 | | 8-15-17 | 8:40 | 21.1°C | 6.86 | 129.3 | 976.2 | murky, brown |
| | | | | | | | | | |
| | | | | | | | | | |

Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|--------------|---|
| ALTA - | | | | | pH: YSI professional series Turbidity: HF scientific, inc. MICROTPW |
| 500ml | 1 | No | DISTSS | | |
| 250ml | 1 | No | Total | | Calibration Date: Turbidity - 8-15-17 pH - 8-15-17 |
| Outfall 1 | | | | | |
| 500ml | 1 | No | DISTSS | | |
| 250ml | 1 | No | Total | | |

Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.
 Total Metals - 250 ml container with nitric acid preservative.
 TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

Stormwater Sampling Parameters

| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
|--|--------|-------|-----------|-------------------|----------|
| pH ¹ | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ¹ pH, Temp, Cond, and Turbidty are Field Measurements | | | | | |



July 17, 2017

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

Work Order No.: 17G0035

RE: Storm Water

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 07/03/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17G0035-01 | Alta | Storm Water | 07/03/2017 0935 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

Case Narrative

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- R13 MS/MSD RPD exceeded method acceptance limit. Matrix spike recovery was outside acceptance criteria. Batch precision and accuracy were demonstrated.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Lab Sample ID: 17G0035-01

Client Sample ID: Alta
Collection Date/Time: 07/03/2017 0935
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 330 | | | | mg/L | 1 | 07/05/2017 1005 | 07/06/2017 1221 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 07/10/2017 1640 | 07/13/2017 1308 | MH |
| Zinc | ND | | 0.040 | | mg/L | 1 | 07/10/2017 1640 | 07/13/2017 1308 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0012 | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Arsenic | 0.0055 | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Cadmium | ND | | 0.00025 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Chromium | 0.00053 | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Copper | 0.0093 | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Manganese | 0.73 | | 0.0025 | | mg/L | 10 | 07/10/2017 1640 | 07/12/2017 1638 | MH |
| Nickel | 0.0021 | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Selenium | 0.0010 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 07/10/2017 1640 | 07/12/2017 1726 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | 0.00023 | 0.000094 | 0.0010 | E4 | mg/L | 1 | 07/11/2017 1045 | 07/11/2017 1659 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 81 | | 4.0 | | mg/L | 1 | 07/05/2017 1005 | 07/06/2017 1221 | MH |
| Iron | 12 | | 0.30 | | mg/L | 1 | 07/05/2017 1005 | 07/06/2017 1221 | MH |
| Magnesium | 31 | | 3.0 | | mg/L | 1 | 07/05/2017 1005 | 07/06/2017 1221 | MH |
| Zinc | 0.16 | | 0.040 | | mg/L | 1 | 07/05/2017 1005 | 07/06/2017 1221 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0025 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Arsenic | 0.026 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Lab Sample ID: 17G0035-01

Client Sample ID: Alta
Collection Date/Time: 07/03/2017 0935
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Beryllium | 0.00033 | | 0.00025 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Cadmium | 0.00070 | | 0.00025 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Chromium | 0.0065 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Copper | 0.034 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Lead | 0.066 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Manganese | 2.0 | | 0.0025 | | mg/L | 10 | 07/10/2017 1020 | 07/11/2017 1227 | MH |
| Nickel | 0.0083 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Selenium | 0.0010 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Silver | 0.00082 | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 07/10/2017 1020 | 07/12/2017 1444 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 07/14/2017 1025 | 07/14/2017 1531 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 990 | | 10 | | mg/L | 1 | 07/05/2017 0815 | 07/07/2017 1215 | LH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch 1707034 - E200.7 (4.4)

Blank (1707034-BLK1)

Prepared: 07/05/2017 Analyzed: 07/06/2017

| | | | | | | | | | | |
|-----------|----|-------|------|--|--|--|--|--|--|--|
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |

LCS (1707034-BS1)

Prepared: 07/05/2017 Analyzed: 07/06/2017

| | | | | | | | | | | |
|-----------|------|-------|------|--------|--|-----|--------|--|--|--|
| Calcium | 10 | 4.0 | mg/L | 10.00 | | 101 | 85-115 | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 103 | 85-115 | | | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 101 | 85-115 | | | |
| Zinc | 0.50 | 0.040 | mg/L | 0.5000 | | 100 | 85-115 | | | |

LCS Dup (1707034-BSD1)

Prepared: 07/05/2017 Analyzed: 07/06/2017

| | | | | | | | | | | |
|-----------|------|-------|------|--------|--|-----|--------|------|----|--|
| Calcium | 10 | 4.0 | mg/L | 10.00 | | 101 | 85-115 | 0.3 | 20 | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 103 | 85-115 | 0.08 | 20 | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 101 | 85-115 | 0.05 | 20 | |
| Zinc | 0.50 | 0.040 | mg/L | 0.5000 | | 100 | 85-115 | 0.3 | 20 | |

Matrix Spike (1707034-MS1)

Source: 17F0821-01

Prepared: 07/05/2017 Analyzed: 07/06/2017

| | | | | | | | | | | |
|-----------|------|-------|------|--------|-------|-----|--------|--|--|--|
| Calcium | 200 | 4.0 | mg/L | 10.00 | 190 | 80 | 70-130 | | | |
| Iron | 1.6 | 0.30 | mg/L | 1.000 | 0.60 | 105 | 70-130 | | | |
| Magnesium | 31 | 3.0 | mg/L | 10.00 | 22 | 99 | 70-130 | | | |
| Zinc | 0.57 | 0.040 | mg/L | 0.5000 | 0.041 | 105 | 70-130 | | | |

Batch 1707074 - E200.8 (5.4)

Blank (1707074-BLK1)

Prepared: 07/10/2017 Analyzed: 07/11/2017

| | | | | | | | | | | |
|-----------|----|---------|------|--|--|--|--|--|--|--|
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----------------|-------|---|---------------|---|-------------|-----|-----------|------|
| Batch 1707074 - E200.8 (5.4) | | | | | | | | | | |
| LCS (1707074-BS1) | | | | Prepared: 07/10/2017 Analyzed: 07/11/2017 | | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Beryllium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 101 | 85-115 | | | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| LCS Dup (1707074-BSD1) | | | | Prepared: 07/10/2017 Analyzed: 07/11/2017 | | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 2 | 20 | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 2 | 20 | |
| Beryllium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 0.8 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 2 | 20 | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 3 | 20 | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 2 | 20 | |
| Manganese | 0.048 | 0.00025 | mg/L | 0.05000 | | 96 | 85-115 | 2 | 20 | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 100 | 85-115 | 2 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 2 | 20 | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Matrix Spike (1707074-MS1) | | | | Source: 17G0123-03 | | Prepared: 07/10/2017 Analyzed: 07/11/2017 | | | | |
| Antimony | 0.051 | 0.0050 | mg/L | 0.05000 | 0.00036 | 103 | 70-130 | | | |
| Arsenic | 0.055 | 0.0050 | mg/L | 0.05000 | 0.0015 | 106 | 70-130 | | | |
| Beryllium | 0.053 | 0.0025 | mg/L | 0.05000 | ND | 105 | 70-130 | | | |
| Cadmium | 0.053 | 0.0025 | mg/L | 0.05000 | 0.00010 | 106 | 70-130 | | | |
| Chromium | 0.055 | 0.0050 | mg/L | 0.05000 | 0.0031 | 105 | 70-130 | | | |
| Copper | 0.28 | 0.0050 | mg/L | 0.05000 | 0.28 | 13 | 70-130 | | | M3 |
| Lead | 0.065 | 0.0050 | mg/L | 0.05000 | 0.013 | 103 | 70-130 | | | |
| Manganese | 0.087 | 0.0025 | mg/L | 0.05000 | 0.035 | 103 | 70-130 | | | |
| Nickel | 0.060 | 0.0050 | mg/L | 0.05000 | 0.011 | 97 | 70-130 | | | |
| Selenium | 0.25 | 0.025 | mg/L | 0.2500 | ND | 102 | 70-130 | | | |
| Silver | 0.047 | 0.0050 | mg/L | 0.05000 | 0.00011 | 94 | 70-130 | | | |
| Thallium | 0.051 | 0.0050 | mg/L | 0.05000 | 0.000071 | 103 | 70-130 | | | |
| Batch 1707088 - E 245.1 | | | | | | | | | | |
| Blank (1707088-BLK1) | | | | Prepared & Analyzed: 07/11/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1707088-BS1) | | | | Prepared & Analyzed: 07/11/2017 | | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | | 102 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---------------------------|-------|---------------------------------|---------------|------|-------------|-----|-----------|------|
| Batch 1707088 - E 245.1 | | | | | | | | | | |
| LCS Dup (1707088-BSD1) | | | | Prepared & Analyzed: 07/11/2017 | | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | | 101 | 85-115 | 1 | 20 | |
| Matrix Spike (1707088-MS1) | | Source: 17F0814-01 | | Prepared & Analyzed: 07/11/2017 | | | | | | |
| Mercury | 0.0030 | 0.0010 | mg/L | 0.005000 | ND | 59 | 85-115 | | | M7 |
| Matrix Spike Dup (1707088-MSD1) | | Source: 17F0814-01 | | Prepared & Analyzed: 07/11/2017 | | | | | | |
| Mercury | 0.0050 | 0.0010 | mg/L | 0.005000 | ND | 100 | 85-115 | 52 | 20 | R13 |
| Batch 1707094 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1707094-BLK1) | | | | Prepared & Analyzed: 07/12/2017 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1707094-BS1) | | | | Prepared & Analyzed: 07/12/2017 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Beryllium | 0.052 | 0.00025 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Cadmium | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 100 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---------------------------------|---------------|---------------------------------|-------------|---------|-----------|------|
| Batch 1707094 - E 200.8 (5.4) | | | | | | | | | | |
| LCS Dup (1707094-BSD1) | | | | Prepared & Analyzed: 07/12/2017 | | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 4 | 20 | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.06 | 20 | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 4 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 4 | 20 | |
| Chromium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 4 | 20 | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.6 | 20 | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | 5 | 20 | |
| Manganese | 0.048 | 0.00025 | mg/L | 0.05000 | | 96 | 85-115 | 5 | 20 | |
| Nickel | 0.045 | 0.00050 | mg/L | 0.05000 | | 90 | 85-115 | 6 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 102 | 85-115 | 2 | 20 | |
| Silver | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | 3 | 20 | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 5 | 20 | |
| Matrix Spike (1707094-MS1) | | | | Source: 17G0186-01 | | Prepared & Analyzed: 07/12/2017 | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00029 | 99 | 70-130 | | | |
| Arsenic | 0.069 | 0.00050 | mg/L | 0.05000 | 0.017 | 104 | 70-130 | | | |
| Beryllium | 0.046 | 0.0013 | mg/L | 0.05000 | ND | 92 | 70-130 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | ND | 96 | 70-130 | | | |
| Chromium | 0.058 | 0.00050 | mg/L | 0.05000 | 0.0043 | 108 | 70-130 | | | |
| Copper | 0.046 | 0.00050 | mg/L | 0.05000 | 0.0018 | 88 | 70-130 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00011 | 99 | 70-130 | | | |
| Manganese | 0.072 | 0.00025 | mg/L | 0.05000 | 0.017 | 109 | 70-130 | | | |
| Nickel | 0.048 | 0.00050 | mg/L | 0.05000 | ND | 97 | 70-130 | | | |
| Selenium | 0.28 | 0.0025 | mg/L | 0.2500 | 0.0034 | 109 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | 0.000058 | 83 | 70-130 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | ND | 97 | 70-130 | | | |
| Batch 1707111 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1707111-BLK1) | | | | Prepared & Analyzed: 07/13/2017 | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1707111-BS1) | | | | Prepared & Analyzed: 07/13/2017 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 100 | 85-115 | | | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 96 | 85-115 | | | |
| LCS Dup (1707111-BSD1) | | | | Prepared & Analyzed: 07/13/2017 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 100 | 85-115 | 0.2 | 20 | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 97 | 85-115 | 1 | 20 | |
| Matrix Spike (1707111-MS1) | | | | Source: 17G0186-02 | | Prepared & Analyzed: 07/13/2017 | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | ND | 104 | 70-130 | | | |
| Zinc | 0.54 | 0.040 | mg/L | 0.5000 | ND | 108 | 70-130 | | | |
| Batch 1707138 - E245.1 | | | | | | | | | | |
| Blank (1707138-BLK1) | | | | Prepared & Analyzed: 07/14/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 17G0035
 Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---------------------------------|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 1707138 - E245.1 | | | | | | | | | | |
| LCS (1707138-BS1) | | | | Prepared & Analyzed: 07/14/2017 | | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | | 104 | 85-115 | | | |
| LCS Dup (1707138-BS1) | | | | Prepared & Analyzed: 07/14/2017 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 106 | 85-115 | 3 | 20 | |
| Matrix Spike (1707138-MS1) | | | | Source: 17G0277-01 | | Prepared & Analyzed: 07/14/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 102 | 85-115 | | | |
| Matrix Spike (1707138-MS2) | | | | Source: 17G0370-01 | | Prepared & Analyzed: 07/14/2017 | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | ND | 105 | 85-115 | | | |
| Matrix Spike Dup (1707138-MSD1) | | | | Source: 17G0277-01 | | Prepared & Analyzed: 07/14/2017 | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 108 | 85-115 | 5 | 20 | |
| Matrix Spike Dup (1707138-MSD2) | | | | Source: 17G0370-01 | | Prepared & Analyzed: 07/14/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | 2 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0035
Date Received: 07/03/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1707022 - SM2540 D | | | | | | | | | | |
| Duplicate (1707022-DUP1) | | | | | | | | | | |
| | | Source: 17F0815-02 | | | Prepared: 07/05/2017 Analyzed: 07/07/2017 | | | | | |
| Total Suspended Solids | 2.0 | 10 | mg/L | | 1.0 | | | 67 | 5 | |

STORMWATER SAMPLE FORM

Field Staff Andrew Cunningham

Company A2 minerals

Weather overcast

Notes _____

Rainfall (inches) 6/16"

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|---------------|------------|---------------|----------------|-------------|-------------|-------------------------------|-----------------|--|
| <u>Alta</u> | <u>7/3/17</u> | <u>---</u> | <u>7/3/17</u> | <u>9:22 am</u> | <u>28.6</u> | <u>6.77</u> | <u>657</u> | <u>305.2</u> | <u>discolored, brownish red no odor, murky</u> |
| | | | | | | | | | |
| | | | | | | | | | |
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Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|----------------------|---|
| <u>250ml</u> | <u>1</u> | <u>N</u> | <u>Y</u> | <u>Total</u> | pH: <u>geotech VSI professional Plus</u> Turbidity: <u>MICROTPN 60692</u> Calibration Date: <u>pH: 7/3/17</u> <u>Turb: 7/3/17</u> |
| <u>500ml</u> | <u>1</u> | <u>N</u> | <u>N</u> | <u>DIS & TSS</u> | |
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Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.
 Total Metals - 250 ml container with nitric acid preservative.
 TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

| Stormwater Sampling Parameters | | | | | |
|--|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |

pH, Temp, Cond, and Turbidity are Field Measurements



March 16, 2018

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

Work Order No.: 18B0450

RE: Storm Water

Dear Johnny Pappas,

Turner Laboratories, Inc. received 2 sample(s) on 02/15/2018 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 18B0450-01 | Alta Outfall | Storm Water | 02/15/2018 0905 |
| 18B0450-02 | Outfall 2 | Storm Water | 02/15/2018 1000 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

Case Narrative

E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Lab Sample ID: 18B0450-01

Client Sample ID: Alta Outfall
Collection Date/Time: 02/15/2018 0905
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 320 | | | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1831 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 02/16/2018 1640 | 03/12/2018 1235 | MH |
| Zinc | ND | | 0.040 | | mg/L | 1 | 02/16/2018 1640 | 03/12/2018 1236 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | 0.00055 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Arsenic | 0.013 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Cadmium | ND | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Copper | 0.0032 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Manganese | 0.0053 | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Nickel | 0.0010 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Selenium | 0.00074 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1321 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 02/22/2018 1300 | 02/22/2018 1407 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 47 | | 4.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1831 | MH |
| Iron | 110 | | 3.0 | | mg/L | 10 | 02/23/2018 1400 | 03/12/2018 1130 | MH |
| Magnesium | 49 | | 3.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1831 | MH |
| Manganese | 13 | | 0.020 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1832 | MH |
| Zinc | 1.4 | | 0.040 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1832 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | 0.00083 | | 0.00050 | | mg/L | 1 | 02/19/2018 1415 | 02/22/2018 1646 | MH |
| Arsenic | 0.20 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Beryllium | 0.0035 | | 0.0025 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Cadmium | 0.0044 | | 0.0025 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Lab Sample ID: 18B0450-01

Client Sample ID: Alta Outfall
Collection Date/Time: 02/15/2018 0905
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Chromium | 0.044 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Copper | 0.25 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Lead | 0.71 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Nickel | 0.030 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Selenium | ND | | 0.0025 | | mg/L | 1 | 02/19/2018 1415 | 02/22/2018 1646 | MH |
| Silver | 0.0074 | | 0.0050 | | mg/L | 10 | 02/19/2018 1415 | 02/22/2018 1625 | MH |
| Thallium | 0.0023 | | 0.00050 | | mg/L | 1 | 02/19/2018 1415 | 02/22/2018 1646 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | 0.00022 | 0.000079 | 0.0010 | E4 | mg/L | 1 | 02/20/2018 1110 | 02/20/2018 1628 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 4800 | | 10 | | mg/L | 1 | 02/19/2018 0945 | 02/19/2018 1645 | EJ |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Lab Sample ID: 18B0450-02

Client Sample ID: Outfall 2
Collection Date/Time: 02/15/2018 1000
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 230 | | | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1835 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 02/16/2018 1640 | 03/12/2018 1240 | MH |
| Zinc | ND | | 0.040 | | mg/L | 1 | 02/16/2018 1640 | 03/12/2018 1240 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Arsenic | 0.0048 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Cadmium | ND | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Chromium | 0.00069 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Copper | 0.0083 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Lead | 0.00075 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Manganese | 0.43 | | 0.00025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Nickel | 0.0032 | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Selenium | 0.0087 | | 0.0025 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 02/16/2018 1640 | 02/27/2018 1337 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 02/22/2018 1300 | 02/22/2018 1410 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 37 | | 4.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1835 | MH |
| Iron | 36 | | 3.0 | | mg/L | 10 | 02/23/2018 1400 | 03/12/2018 1134 | MH |
| Magnesium | 33 | | 3.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1835 | MH |
| Zinc | 0.90 | | 0.040 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1836 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | 0.00086 | | 0.00050 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| Arsenic | 0.041 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1429 | MH |
| Beryllium | 0.00084 | | 0.00025 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| Cadmium | 0.0019 | | 0.00025 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| Chromium | 0.017 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1429 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Lab Sample ID: 18B0450-02

Client Sample ID: Outfall 2
Collection Date/Time: 02/15/2018 1000
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Copper | 0.088 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1429 | MH |
| Lead | 0.15 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1429 | MH |
| Manganese | 6.0 | | 0.0025 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1429 | MH |
| Nickel | 0.028 | | 0.013 | | mg/L | 5 | 03/05/2018 0950 | 03/06/2018 1159 | MH |
| Selenium | 0.0081 | | 0.0025 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| Silver | 0.0015 | | 0.00050 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| Thallium | 0.00071 | | 0.00050 | | mg/L | 1 | 02/21/2018 1355 | 02/22/2018 1702 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | 0.00027 | 0.000079 | 0.0010 | E4 | mg/L | 1 | 02/20/2018 1110 | 02/20/2018 1630 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 390 | | 10 | | mg/L | 1 | 02/19/2018 0945 | 02/19/2018 1645 | EJ |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 1802202 - E245.1 | | | | | | | | | | |
| Blank (1802202-BLK1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1802202-BS1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | 0.0050 | 0.0010 | mg/L | 0.005000 | | 99 | 85-115 | | | |
| LCS Dup (1802202-BSD1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | | 99 | 85-115 | 0.6 | 20 | |
| Matrix Spike (1802202-MS1) | | | | Source: 18B0472-01 | | Prepared & Analyzed: 02/20/2018 | | | | |
| Mercury | 0.0045 | 0.0010 | mg/L | 0.005000 | ND | 89 | 85-115 | | | |
| Matrix Spike Dup (1802202-MSD1) | | | | Source: 18B0472-01 | | Prepared & Analyzed: 02/20/2018 | | | | |
| Mercury | 0.0046 | 0.0010 | mg/L | 0.005000 | ND | 92 | 85-115 | 3 | 20 | |
| Batch 1802216 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1802216-BLK1) | | | | Prepared: 02/19/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1802216-BS1) | | | | Prepared: 02/19/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Arsenic | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Nickel | 0.045 | 0.00050 | mg/L | 0.05000 | | 90 | 85-115 | | | |
| Selenium | 0.047 | 0.0025 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 18B0450
 Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----------------|-------|---|---------------|------|-------------|------|-----------|------|
| Batch 1802216 - E200.8 (5.4) | | | | | | | | | | |
| LCS Dup (1802216-BSD1) | | | | Prepared: 02/19/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 2 | 20 | |
| Arsenic | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | 0.3 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | 3 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | 0.04 | 20 | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.4 | 20 | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 0.1 | 20 | |
| Nickel | 0.044 | 0.00050 | mg/L | 0.05000 | | 89 | 85-115 | 1 | 20 | |
| Selenium | 0.046 | 0.0025 | mg/L | 0.05000 | | 93 | 85-115 | 1 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 1 | 20 | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 0.9 | 20 | |

| | | | | | | | | | | |
|-----------------------------------|-------|---------|------|---------------------------|----------|---|--------|--|--|--|
| Matrix Spike (1802216-MS1) | | | | Source: 18B0421-01 | | Prepared: 02/19/2018 Analyzed: 02/22/2018 | | | | |
| Antimony | 0.045 | 0.00050 | mg/L | 0.05000 | 0.00017 | 91 | 70-130 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0016 | 97 | 70-130 | | | |
| Beryllium | 0.045 | 0.00025 | mg/L | 0.05000 | 0.000042 | 90 | 70-130 | | | |
| Cadmium | 0.045 | 0.00025 | mg/L | 0.05000 | ND | 90 | 70-130 | | | |
| Chromium | 0.048 | 0.00050 | mg/L | 0.05000 | 0.0012 | 94 | 70-130 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | 0.0036 | 91 | 70-130 | | | |
| Lead | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00098 | 100 | 70-130 | | | |
| Nickel | 0.044 | 0.00050 | mg/L | 0.05000 | ND | 87 | 70-130 | | | |
| Selenium | 0.047 | 0.0025 | mg/L | 0.05000 | ND | 95 | 70-130 | | | |
| Silver | 0.043 | 0.00050 | mg/L | 0.05000 | 0.000048 | 86 | 70-130 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | 0.000032 | 102 | 70-130 | | | |

| | | | | | | | | | | |
|-------------------------------------|----|---------|------|---|--|--|--|--|--|--|
| Batch 1802240 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1802240-BLK1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----------------|-------|---|---------------|---|-------------|-----|-----------|------|
| Batch 1802240 - E200.8 (5.4) | | | | | | | | | | |
| LCS (1802240-BS1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Arsenic | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Chromium | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Copper | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Lead | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Manganese | 0.046 | 0.00025 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Selenium | 0.046 | 0.0025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Silver | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Thallium | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| LCS Dup (1802240-BSD1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 1 | 20 | |
| Arsenic | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 1 | 20 | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | | 92 | 85-115 | 1 | 20 | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | | 93 | 85-115 | 2 | 20 | |
| Chromium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 1 | 20 | |
| Copper | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 0.5 | 20 | |
| Lead | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 0.7 | 20 | |
| Manganese | 0.046 | 0.00025 | mg/L | 0.05000 | | 93 | 85-115 | 0.9 | 20 | |
| Selenium | 0.046 | 0.0025 | mg/L | 0.05000 | | 92 | 85-115 | 1 | 20 | |
| Silver | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | 0.5 | 20 | |
| Thallium | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 2 | 20 | |
| Matrix Spike (1802240-MS1) | | | | Source: 18B0506-05 | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00020 | 94 | 70-130 | | | |
| Arsenic | 0.064 | 0.00050 | mg/L | 0.05000 | 0.017 | 94 | 70-130 | | | |
| Beryllium | 0.039 | 0.00025 | mg/L | 0.05000 | ND | 79 | 70-130 | | | |
| Cadmium | 0.045 | 0.00025 | mg/L | 0.05000 | ND | 90 | 70-130 | | | |
| Chromium | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0042 | 99 | 70-130 | | | |
| Copper | 0.065 | 0.00050 | mg/L | 0.05000 | 0.023 | 83 | 70-130 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00050 | 100 | 70-130 | | | |
| Manganese | 0.056 | 0.00025 | mg/L | 0.05000 | 0.0080 | 95 | 70-130 | | | |
| Selenium | 0.047 | 0.0025 | mg/L | 0.05000 | 0.00087 | 93 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | 0.000025 | 83 | 70-130 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | ND | 99 | 70-130 | | | |
| Batch 1802242 - E 245.1 | | | | | | | | | | |
| Blank (1802242-BLK1) | | | | Prepared & Analyzed: 02/22/2018 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1802242-BS1) | | | | Prepared & Analyzed: 02/22/2018 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 106 | 85-115 | | | |
| LCS Dup (1802242-BSD1) | | | | Prepared & Analyzed: 02/22/2018 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 106 | 85-115 | 0.7 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1802242 - E 245.1 | | | | | | | | | | |
| Matrix Spike (1802242-MS1) | | Source: 18B0421-01 | | | Prepared & Analyzed: 02/22/2018 | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | | | |
| Matrix Spike Dup (1802242-MSD1) | | Source: 18B0421-01 | | | Prepared & Analyzed: 02/22/2018 | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | 0.2 | 20 | |
| Batch 1802275 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1802275-BLK1) | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Manganese | ND | 0.020 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1802275-BS1) | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | | | |
| Calcium | 9.5 | 4.0 | mg/L | 10.00 | | 95 | 85-115 | | | |
| Iron | 0.98 | 0.30 | mg/L | 1.000 | | 98 | 85-115 | | | |
| Magnesium | 9.8 | 3.0 | mg/L | 10.00 | | 98 | 85-115 | | | |
| Manganese | 0.48 | 0.020 | mg/L | 0.5000 | | 97 | 85-115 | | | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 92 | 85-115 | | | |
| LCS Dup (1802275-BSD1) | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | | | |
| Calcium | 9.2 | 4.0 | mg/L | 10.00 | | 92 | 85-115 | 3 | 20 | |
| Iron | 0.97 | 0.30 | mg/L | 1.000 | | 97 | 85-115 | 1 | 20 | |
| Magnesium | 9.6 | 3.0 | mg/L | 10.00 | | 96 | 85-115 | 2 | 20 | |
| Manganese | 0.48 | 0.020 | mg/L | 0.5000 | | 96 | 85-115 | 0.8 | 20 | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 91 | 85-115 | 0.9 | 20 | |
| Matrix Spike (1802275-MS1) | | Source: 18B0356-01 | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | |
| Calcium | 47 | 4.0 | mg/L | 10.00 | 38 | 83 | 70-130 | | | |
| Iron | 7.3 | 0.30 | mg/L | 1.000 | 6.4 | 88 | 70-130 | | | |
| Magnesium | 16 | 3.0 | mg/L | 10.00 | 6.1 | 96 | 70-130 | | | |
| Manganese | 1.5 | 0.020 | mg/L | 0.5000 | 1.1 | 75 | 70-130 | | | |
| Zinc | 0.60 | 0.040 | mg/L | 0.5000 | 0.16 | 87 | 70-130 | | | |
| Matrix Spike (1802275-MS2) | | Source: 18B0439-03 | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | |
| Calcium | 18 | 4.0 | mg/L | 10.00 | 7.1 | 110 | 70-130 | | | |
| Iron | 1.7 | 0.30 | mg/L | 1.000 | 0.52 | 116 | 70-130 | | | |
| Magnesium | 11 | 3.0 | mg/L | 10.00 | 0.86 | 106 | 70-130 | | | |
| Manganese | 0.53 | 0.020 | mg/L | 0.5000 | 0.021 | 101 | 70-130 | | | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | 0.033 | 97 | 70-130 | | | |
| Batch 1802281 - E 200.8 (5.4) | | | | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---------------------------------|---------------|------|-------------|-------|-----------|------|
| Batch 1802281 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1802281-BLK1) | | | | Prepared & Analyzed: 02/27/2018 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1802281-BS1) | | | | Prepared & Analyzed: 02/27/2018 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Cadmium | 0.051 | 0.00025 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Chromium | 0.054 | 0.00050 | mg/L | 0.05000 | | 107 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Manganese | 0.054 | 0.00025 | mg/L | 0.05000 | | 109 | 85-115 | | | |
| Nickel | 0.053 | 0.00050 | mg/L | 0.05000 | | 106 | 85-115 | | | |
| Selenium | 0.053 | 0.0025 | mg/L | 0.05000 | | 105 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| LCS Dup (1802281-BSD1) | | | | Prepared & Analyzed: 02/27/2018 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.006 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 0.2 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.3 | 20 | |
| Cadmium | 0.052 | 0.00025 | mg/L | 0.05000 | | 103 | 85-115 | 0.5 | 20 | |
| Chromium | 0.054 | 0.00050 | mg/L | 0.05000 | | 107 | 85-115 | 0.4 | 20 | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.3 | 20 | |
| Lead | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.5 | 20 | |
| Manganese | 0.055 | 0.00025 | mg/L | 0.05000 | | 109 | 85-115 | 0.5 | 20 | |
| Nickel | 0.053 | 0.00050 | mg/L | 0.05000 | | 106 | 85-115 | 0.3 | 20 | |
| Selenium | 0.052 | 0.0025 | mg/L | 0.05000 | | 104 | 85-115 | 1 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.3 | 20 | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | 0.8 | 20 | |

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 18B0450
 Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|---|-------|-------------|---|------|-------------|------|-----------|------|
| Batch 1802281 - E 200.8 (5.4) | | | | | | | | | | |
| Matrix Spike (1802281-MS1) | | Source: 18B0547-01 | | | Prepared & Analyzed: 02/27/2018 | | | | | |
| Antimony | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00038 | 101 | 70-130 | | | |
| Arsenic | 0.057 | 0.00050 | mg/L | 0.05000 | 0.0023 | 108 | 70-130 | | | |
| Beryllium | 0.044 | 0.00025 | mg/L | 0.05000 | 0.000059 | 88 | 70-130 | | | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | ND | 98 | 70-130 | | | |
| Chromium | 0.052 | 0.00050 | mg/L | 0.05000 | 0.00065 | 102 | 70-130 | | | |
| Copper | 0.045 | 0.00050 | mg/L | 0.05000 | 0.0013 | 87 | 70-130 | | | |
| Lead | 0.055 | 0.00050 | mg/L | 0.05000 | 0.00021 | 109 | 70-130 | | | |
| Manganese | 0.053 | 0.00025 | mg/L | 0.05000 | 0.0020 | 103 | 70-130 | | | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0040 | 91 | 70-130 | | | |
| Selenium | 0.062 | 0.0025 | mg/L | 0.05000 | 0.0027 | 118 | 70-130 | | | |
| Silver | 0.043 | 0.00050 | mg/L | 0.05000 | 0.000076 | 85 | 70-130 | | | |
| Thallium | 0.055 | 0.00050 | mg/L | 0.05000 | 0.00012 | 110 | 70-130 | | | |
| Batch 1803047 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1803047-BLK1) | | Prepared: 03/05/2018 Analyzed: 03/06/2018 | | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1803047-BS1) | | Prepared: 03/05/2018 Analyzed: 03/06/2018 | | | | | | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| LCS Dup (1803047-BSD1) | | Prepared: 03/05/2018 Analyzed: 03/06/2018 | | | | | | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | 0.03 | 20 | |
| Matrix Spike (1803047-MS1) | | Source: 18C0069-01 | | | Prepared: 03/05/2018 Analyzed: 03/06/2018 | | | | | |
| Nickel | 0.058 | 0.00050 | mg/L | 0.05000 | 0.0047 | 106 | 70-130 | | | |
| Batch 1803123 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1803123-BLK1) | | Prepared & Analyzed: 03/12/2018 | | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1803123-BS1) | | Prepared & Analyzed: 03/12/2018 | | | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 104 | 85-115 | | | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | | 106 | 85-115 | | | |
| LCS Dup (1803123-BSD1) | | Prepared & Analyzed: 03/12/2018 | | | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 104 | 85-115 | 0.1 | 20 | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | | 107 | 85-115 | 0.5 | 20 | |
| Matrix Spike (1803123-MS1) | | Source: 18B0466-01 | | | Prepared & Analyzed: 03/12/2018 | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | ND | 102 | 70-130 | | | |
| Zinc | 0.51 | 0.040 | mg/L | 0.5000 | ND | 103 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0450
Date Received: 02/15/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---------------------------------|------|-------------|-----|-----------|------|
| Batch 1802187 - SM2540 D | | | | | | | | | | |
| Duplicate (1802187-DUP1) | | Source: 18B0452-02 | | | Prepared & Analyzed: 02/19/2018 | | | | | |
| Total Suspended Solids | 11 | 10 | mg/L | | 11 | | | 0 | 5 | |
| Duplicate (1802187-DUP2) | | Source: 18B0450-02 | | | Prepared & Analyzed: 02/19/2018 | | | | | |
| Total Suspended Solids | 400 | 10 | mg/L | | 390 | | | 3 | 5 | |

STORMWATER SAMPLE FORM

Field Staff Robert Dodson Company Arizona Minerals Weather sprinkling / cloudy
 Notes _____ Rainfall (inches) 2"

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|-----------|------------|-------------|--------------|---------|------|-------------------------------|-----------------|--|
| Alto outfall | 2-15-18 | | 2-15-18 | 9:11 AM | 13.2°C | 8.25 | 802.2 | 596 | brown |
| outfall 2 | 2-15-18 | | 2-15-18 | 10:01 AM | 13°C | 7.17 | 454.7 | 1060 | brown |
| | | | | | | | | | |
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| | | | | | | | | | |

Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|--------------|---|
| 500 | 2 | N | N | DIS + TSS | pH: YSI Professional Plus |
| 250 | 2 | N | Y | Total | Turbidity: Geo Tech Portable Turbidity Meter |
| | | | | | Calibration Date: PH Turbidity - 2-15-18 PH - 2-15-18 |
| | | | | | |
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Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.
 Total Metals - 250 ml container with nitric acid preservative.
 TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

| Stormwater Sampling Parameters | | | | | |
|---|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH | Field | | | | |
| Hardness (CaCO ₃) calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |

pH, Temp, Cond, and Turbidity are Field Measurements



March 13, 2018

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

RE: Storm Water

Work Order No.: 18B0491
Order Name: Hermosa Taylor
Deposit

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 02/19/2018 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

Order: Hermosa Taylor Deposit

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 18B0491-01 | Alta Outfall | Storm Water | 02/19/2018 1041 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

Case Narrative

- D5 Minimum Reporting Limit (MRL) is adjusted due to sample dilution; analyte was non-detect in the sample.
- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- Q9 Insufficient sample received to meet method QC requirements.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Lab Sample ID: 18B0491-01

Client Sample ID: Alta Outfall
Collection Date/Time: 02/19/2018 1041
Matrix: Storm Water
Order Name: Hermosa Taylor Deposit

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 1400 | | | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1847 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 03/05/2018 0855 | 03/12/2018 1244 | MH |
| Manganese | ND | | 0.020 | | mg/L | 1 | 03/05/2018 0855 | 03/12/2018 1244 | MH |
| Zinc | ND | | 0.040 | | mg/L | 1 | 03/05/2018 0855 | 03/12/2018 1244 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0010 | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Arsenic | 0.016 | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Cadmium | ND | | 0.00025 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Chromium | 0.00070 | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Copper | 0.0019 | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Nickel | 0.00080 | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Selenium | 0.00098 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 03/05/2018 0855 | 03/05/2018 1233 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 03/05/2018 1139 | 03/05/2018 1547 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 170 | | 4.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1847 | MH |
| Iron | 460 | | 15 | | mg/L | 50 | 02/23/2018 1400 | 03/12/2018 1138 | MH |
| Magnesium | 230 | | 3.0 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1847 | MH |
| Manganese | 100 | | 1.0 | | mg/L | 50 | 02/23/2018 1400 | 03/12/2018 1139 | MH |
| Nickel | 0.26 | | 0.050 | | mg/L | 1 | 02/23/2018 1400 | 03/09/2018 1848 | MH |
| Zinc | 10 | | 2.0 | | mg/L | 50 | 02/23/2018 1400 | 03/12/2018 1139 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | ND | | 0.0050 | D5 | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Arsenic | 0.27 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Beryllium | 0.015 | | 0.0025 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Lab Sample ID: 18B0491-01

Client Sample ID: Alta Outfall
Collection Date/Time: 02/19/2018 1041
Matrix: Storm Water
Order Name: Hermosa Taylor Deposit

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|--------|--------|--------|--------|-------|----|-----------------|-----------------|---------|
| Cadmium | 0.034 | | 0.0025 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Chromium | 0.11 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Copper | 1.0 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Lead | 2.5 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Selenium | ND | 0.0025 | 0.025 | D5, E8 | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Silver | 0.044 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| Thallium | 0.013 | | 0.0050 | | mg/L | 10 | 02/21/2018 1355 | 02/22/2018 1435 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | 0.0013 | | 0.0010 | | mg/L | 1 | 02/20/2018 1110 | 02/20/2018 1638 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 16000 | | 10 | | mg/L | 1 | 02/22/2018 0930 | 02/22/2018 1635 | EJ |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 1802202 - E245.1 | | | | | | | | | | |
| Blank (1802202-BLK1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1802202-BS1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | 0.0050 | 0.0010 | mg/L | 0.005000 | | 99 | 85-115 | | | |
| LCS Dup (1802202-BSD1) | | | | Prepared & Analyzed: 02/20/2018 | | | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | | 99 | 85-115 | 0.6 | 20 | |
| Matrix Spike (1802202-MS1) | | | | Source: 18B0472-01 | | Prepared & Analyzed: 02/20/2018 | | | | |
| Mercury | 0.0045 | 0.0010 | mg/L | 0.005000 | ND | 89 | 85-115 | | | |
| Matrix Spike Dup (1802202-MSD1) | | | | Source: 18B0472-01 | | Prepared & Analyzed: 02/20/2018 | | | | |
| Mercury | 0.0046 | 0.0010 | mg/L | 0.005000 | ND | 92 | 85-115 | 3 | 20 | |
| Batch 1802240 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1802240-BLK1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1802240-BS1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Arsenic | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Chromium | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Copper | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Lead | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Selenium | 0.046 | 0.0025 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Silver | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Thallium | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|-------------------------------------|--------|---------------------------|-------|---|---|------|-------------|-----|-----------|------|
| Batch 1802240 - E200.8 (5.4) | | | | | | | | | | |
| LCS Dup (1802240-BSD1) | | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 1 | 20 | |
| Arsenic | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 1 | 20 | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | | 92 | 85-115 | 1 | 20 | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | | 93 | 85-115 | 2 | 20 | |
| Chromium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 1 | 20 | |
| Copper | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 0.5 | 20 | |
| Lead | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 0.7 | 20 | |
| Selenium | 0.046 | 0.0025 | mg/L | 0.05000 | | 92 | 85-115 | 1 | 20 | |
| Silver | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | 0.5 | 20 | |
| Thallium | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 2 | 20 | |
| Matrix Spike (1802240-MS1) | | Source: 18B0506-05 | | | Prepared: 02/21/2018 Analyzed: 02/22/2018 | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00020 | 94 | 70-130 | | | |
| Arsenic | 0.064 | 0.00050 | mg/L | 0.05000 | 0.017 | 94 | 70-130 | | | |
| Beryllium | 0.039 | 0.00025 | mg/L | 0.05000 | ND | 79 | 70-130 | | | |
| Cadmium | 0.045 | 0.00025 | mg/L | 0.05000 | ND | 90 | 70-130 | | | |
| Chromium | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0042 | 99 | 70-130 | | | |
| Copper | 0.065 | 0.00050 | mg/L | 0.05000 | 0.023 | 83 | 70-130 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00050 | 100 | 70-130 | | | |
| Selenium | 0.047 | 0.0025 | mg/L | 0.05000 | 0.00087 | 93 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | 0.000025 | 83 | 70-130 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | ND | 99 | 70-130 | | | |
| Batch 1802275 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1802275-BLK1) | | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Manganese | ND | 0.020 | mg/L | | | | | | | |
| Nickel | ND | 0.050 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1802275-BS1) | | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | |
| Calcium | 9.5 | 4.0 | mg/L | 10.00 | | 95 | 85-115 | | | |
| Iron | 0.98 | 0.30 | mg/L | 1.000 | | 98 | 85-115 | | | |
| Magnesium | 9.8 | 3.0 | mg/L | 10.00 | | 98 | 85-115 | | | |
| Manganese | 0.48 | 0.020 | mg/L | 0.5000 | | 97 | 85-115 | | | |
| Nickel | 0.46 | 0.050 | mg/L | 0.5000 | | 91 | 85-115 | | | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 92 | 85-115 | | | |
| LCS Dup (1802275-BSD1) | | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | | |
| Calcium | 9.2 | 4.0 | mg/L | 10.00 | | 92 | 85-115 | 3 | 20 | |
| Iron | 0.97 | 0.30 | mg/L | 1.000 | | 97 | 85-115 | 1 | 20 | |
| Magnesium | 9.6 | 3.0 | mg/L | 10.00 | | 96 | 85-115 | 2 | 20 | |
| Manganese | 0.48 | 0.020 | mg/L | 0.5000 | | 96 | 85-115 | 0.8 | 20 | |
| Nickel | 0.45 | 0.050 | mg/L | 0.5000 | | 91 | 85-115 | 0.8 | 20 | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 91 | 85-115 | 0.9 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch 1802275 - E200.7 (4.4)

| Matrix Spike (1802275-MS1) | | Source: 18B0356-01 | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | |
|-----------------------------------|------|---------------------------|------|--------|---|----|--------|--|--|--|
| Calcium | 47 | 4.0 | mg/L | 10.00 | 38 | 83 | 70-130 | | | |
| Iron | 7.3 | 0.30 | mg/L | 1.000 | 6.4 | 88 | 70-130 | | | |
| Magnesium | 16 | 3.0 | mg/L | 10.00 | 6.1 | 96 | 70-130 | | | |
| Manganese | 1.5 | 0.020 | mg/L | 0.5000 | 1.1 | 75 | 70-130 | | | |
| Nickel | 0.46 | 0.050 | mg/L | 0.5000 | ND | 91 | 70-130 | | | |
| Zinc | 0.60 | 0.040 | mg/L | 0.5000 | 0.16 | 87 | 70-130 | | | |

| Matrix Spike (1802275-MS2) | | Source: 18B0439-03 | | | Prepared: 02/23/2018 Analyzed: 03/09/2018 | | | | | |
|-----------------------------------|------|---------------------------|------|--------|---|-----|--------|--|--|--|
| Calcium | 18 | 4.0 | mg/L | 10.00 | 7.1 | 110 | 70-130 | | | |
| Iron | 1.7 | 0.30 | mg/L | 1.000 | 0.52 | 116 | 70-130 | | | |
| Magnesium | 11 | 3.0 | mg/L | 10.00 | 0.86 | 106 | 70-130 | | | |
| Manganese | 0.53 | 0.020 | mg/L | 0.5000 | 0.021 | 101 | 70-130 | | | |
| Nickel | 0.48 | 0.050 | mg/L | 0.5000 | ND | 96 | 70-130 | | | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | 0.033 | 97 | 70-130 | | | |

Batch 1803028 - E 200.8 (5.4)

| Blank (1803028-BLK1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
|-----------------------------|----|---------|------|---------------------------------|--|--|--|--|--|--|
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

| LCS (1803028-BS1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
|--------------------------|-------|---------|------|---------------------------------|--|-----|--------|--|--|--|
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Nickel | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | | | |
| Selenium | 0.050 | 0.0025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 18B0491
 Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---------------------------|-------|---------------------------------|---------------|------|-------------|------|-----------|------|
| Batch 1803028 - E 200.8 (5.4) | | | | | | | | | | |
| LCS Dup (1803028-BSD1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.5 | 20 | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.5 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.4 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.4 | 20 | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.4 | 20 | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 1 | 20 | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 0.09 | 20 | |
| Nickel | 0.052 | 0.00050 | mg/L | 0.05000 | | 104 | 85-115 | 0.3 | 20 | |
| Selenium | 0.050 | 0.0025 | mg/L | 0.05000 | | 100 | 85-115 | 0.2 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.1 | 20 | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 0.8 | 20 | |
| Matrix Spike (1803028-MS1) | | Source: 18B0491-01 | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | 0.0010 | 92 | 70-130 | | | |
| Arsenic | 0.067 | 0.00050 | mg/L | 0.05000 | 0.016 | 102 | 70-130 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | ND | 91 | 70-130 | | | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | ND | 92 | 70-130 | | | |
| Chromium | 0.046 | 0.00050 | mg/L | 0.05000 | 0.00070 | 91 | 70-130 | | | |
| Copper | 0.047 | 0.00050 | mg/L | 0.05000 | 0.0019 | 90 | 70-130 | | | |
| Lead | 0.046 | 0.00050 | mg/L | 0.05000 | 0.00013 | 91 | 70-130 | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | 0.00080 | 90 | 70-130 | | | |
| Selenium | 0.055 | 0.0025 | mg/L | 0.05000 | 0.00098 | 108 | 70-130 | | | |
| Silver | 0.042 | 0.00050 | mg/L | 0.05000 | ND | 83 | 70-130 | | | |
| Thallium | 0.046 | 0.00050 | mg/L | 0.05000 | ND | 92 | 70-130 | | | |
| Batch 1803032 - E 245.1 | | | | | | | | | | |
| Blank (1803032-BLK1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1803032-BS1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Mercury | 0.0047 | 0.0010 | mg/L | 0.005000 | | 93 | 85-115 | | | |
| LCS Dup (1803032-BSD1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | | 97 | 85-115 | 4 | 20 | |
| Matrix Spike (1803032-MS1) | | Source: 18B0611-01 | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Mercury | 0.0041 | 0.0010 | mg/L | 0.005000 | ND | 82 | 85-115 | | | M7 |
| Matrix Spike Dup (1803032-MSD1) | | | | Prepared & Analyzed: 03/05/2018 | | | | | | |
| Mercury | 0.0033 | 0.0010 | mg/L | 0.005000 | ND | 66 | 85-115 | 22 | 20 | M7 |
| Batch 1803123 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1803123-BLK1) | | | | Prepared & Analyzed: 03/12/2018 | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Manganese | ND | 0.020 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|---------------------------|-------|---------------------------------|---------------|------|-------------|-----|-----------|------|
| Batch 1803123 - E 200.7 (4.4) | | | | | | | | | | |
| LCS (1803123-BS1) | | | | Prepared & Analyzed: 03/12/2018 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 104 | 85-115 | | | |
| Manganese | 0.53 | 0.020 | mg/L | 0.5000 | | 106 | 85-115 | | | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | | 106 | 85-115 | | | |
| LCS Dup (1803123-BSD1) | | | | Prepared & Analyzed: 03/12/2018 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 104 | 85-115 | 0.1 | 20 | |
| Manganese | 0.53 | 0.020 | mg/L | 0.5000 | | 106 | 85-115 | 0.3 | 20 | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | | 107 | 85-115 | 0.5 | 20 | |
| Matrix Spike (1803123-MS1) | | Source: 18B0466-01 | | Prepared & Analyzed: 03/12/2018 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | ND | 102 | 70-130 | | | |
| Manganese | 0.51 | 0.020 | mg/L | 0.5000 | ND | 101 | 70-130 | | | |
| Zinc | 0.51 | 0.040 | mg/L | 0.5000 | ND | 103 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 18B0491
Date Received: 02/19/2018

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---------------------------------|------|-------------|-----|-----------|------|
| Batch 1802232 - SM2540 D | | | | | | | | | | |
| Duplicate (1802232-DUP1) | | Source: 18B0358-01 | | | Prepared & Analyzed: 02/22/2018 | | | | | |
| Total Suspended Solids | ND | 10 | mg/L | | 0.0 | | | | 5 | Q9 |
| Duplicate (1802232-DUP2) | | Source: 18B0469-03 | | | Prepared & Analyzed: 02/22/2018 | | | | | |
| Total Suspended Solids | 3.0 | 10 | mg/L | | 3.0 | | | 0 | 5 | |



August 08, 2017

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

RE: Storm Water

Work Order No.: 17G0658
Order Name: Hermosa Taylor
Deposits

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 07/24/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

Order: Hermosa Taylor Deposits

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17G0658-01 | Outfall 1 | Storm Water | 07/24/2017 0755 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

Case Narrative

E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Lab Sample ID: 17G0658-01

Client Sample ID: Outfall 1
Collection Date/Time: 07/24/2017 0755
Matrix: Storm Water
Order Name: Hermosa Taylor Deposits

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|----------|--------|-----|-----|------|-------|----|-----------|---------------|---------|
|----------|--------|-----|-----|------|-------|----|-----------|---------------|---------|

Hardness-Calculation

| | | | | | | | | | |
|--|-----|--|--|--|------|---|-----------------|-----------------|----|
| Hardness, Calcium/Magnesium (As CaCO3) | 170 | | | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1302 | MH |
|--|-----|--|--|--|------|---|-----------------|-----------------|----|

ICP Dissolved Metals-E 200.7 (4.4)

| | | | | | | | | | |
|-----------|------|--|-------|--|------|---|-----------------|-----------------|----|
| Iron | ND | | 0.30 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1116 | MH |
| Magnesium | 25 | | 3.0 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1115 | MH |
| Zinc | 0.15 | | 0.040 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1116 | MH |

ICP/MS Dissolved Metals-E 200.8 (5.4)

| | | | | | | | | | |
|-----------|---------|---------|---------|----|------|---|-----------------|-----------------|----|
| Antimony | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Arsenic | 0.0041 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Cadmium | 0.00063 | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Copper | 0.0046 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Lead | 0.00054 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Manganese | 0.31 | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Nickel | 0.0019 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Selenium | 0.00051 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1047 | MH |

CVAA Dissolved Mercury-E 245.1

| | | | | | | | | | |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|
| Mercury | ND | 0.000094 | 0.0010 | E8 | mg/L | 1 | 08/07/2017 1300 | 08/07/2017 1948 | MH |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|

ICP Total Metals-E200.7 (4.4)

| | | | | | | | | | |
|-----------|------|--|-------|--|------|---|-----------------|-----------------|----|
| Calcium | 28 | | 4.0 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1302 | MH |
| Iron | 0.43 | | 0.30 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1302 | MH |
| Magnesium | 24 | | 3.0 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1302 | MH |
| Zinc | 0.17 | | 0.040 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1303 | MH |

ICP/MS Total Metals-E200.8 (5.4)

| | | | | | | | | | |
|----------|----|--|---------|--|------|---|-----------------|-----------------|----|
| Antimony | ND | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
|----------|----|--|---------|--|------|---|-----------------|-----------------|----|

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Lab Sample ID: 17G0658-01

Client Sample ID: Outfall 1
Collection Date/Time: 07/24/2017 0755
Matrix: Storm Water
Order Name: Hermosa Taylor Deposits

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|-----------|---------|---------|---------|------|-------|----|-----------------|-----------------|---------|
| Arsenic | 0.0039 | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 08/01/2017 1030 | 08/04/2017 1258 | MH |
| Cadmium | 0.00068 | | 0.00025 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Chromium | 0.0010 | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Copper | 0.0055 | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Lead | 0.0056 | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Manganese | 0.33 | | 0.0025 | | mg/L | 10 | 08/01/2017 1030 | 08/04/2017 1226 | MH |
| Nickel | 0.0020 | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Selenium | 0.00026 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 08/01/2017 1030 | 08/03/2017 1336 | MH |

CVAA Total Mercury-E245.1

| | | | | | | | | | |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 07/27/2017 1145 | 07/27/2017 1555 | MH |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|

Total Suspended Solids (Residue, Non-Filterable)-SM2540 D

| | | | | | | | | | |
|------------------------|----|--|----|--|------|---|-----------------|-----------------|----|
| Total Suspended Solids | ND | | 10 | | mg/L | 1 | 07/28/2017 0850 | 07/31/2017 1340 | LH |
|------------------------|----|--|----|--|------|---|-----------------|-----------------|----|

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|------|
| Batch 1707266 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1707266-BLK1) Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1707266-BS1) Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | | | | | |
| Calcium | 9.7 | 4.0 | mg/L | 10.00 | | 97 | 85-115 | | | |
| Iron | 0.99 | 0.30 | mg/L | 1.000 | | 99 | 85-115 | | | |
| Magnesium | 9.8 | 3.0 | mg/L | 10.00 | | 98 | 85-115 | | | |
| Zinc | 0.47 | 0.040 | mg/L | 0.5000 | | 94 | 85-115 | | | |
| LCS Dup (1707266-BSD1) Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | | | | | |
| Calcium | 9.6 | 4.0 | mg/L | 10.00 | | 96 | 85-115 | 0.8 | 20 | |
| Iron | 0.98 | 0.30 | mg/L | 1.000 | | 98 | 85-115 | 0.8 | 20 | |
| Magnesium | 9.7 | 3.0 | mg/L | 10.00 | | 97 | 85-115 | 0.8 | 20 | |
| Zinc | 0.47 | 0.040 | mg/L | 0.5000 | | 93 | 85-115 | 0.7 | 20 | |
| Matrix Spike (1707266-MS1) Source: 17G0681-01 Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | | | | | |
| Calcium | 54 | 4.0 | mg/L | 10.00 | 45 | 86 | 70-130 | | | |
| Iron | 1.2 | 0.30 | mg/L | 1.000 | 0.27 | 98 | 70-130 | | | |
| Magnesium | 12 | 3.0 | mg/L | 10.00 | 2.0 | 97 | 70-130 | | | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | 0.047 | 96 | 70-130 | | | |
| Batch 1707291 - E245.1 | | | | | | | | | | |
| Blank (1707291-BLK1) Prepared & Analyzed: 07/27/2017 | | | | | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1707291-BS1) Prepared & Analyzed: 07/27/2017 | | | | | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 105 | 85-115 | | | |
| LCS Dup (1707291-BSD1) Prepared & Analyzed: 07/27/2017 | | | | | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 105 | 85-115 | 0.3 | 20 | |
| Matrix Spike (1707291-MS1) Source: 17G0718-01 Prepared & Analyzed: 07/27/2017 | | | | | | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 101 | 85-115 | | | |
| Matrix Spike Dup (1707291-MSD1) Source: 17G0718-01 Prepared & Analyzed: 07/27/2017 | | | | | | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | 1 | 20 | |
| Batch 1707299 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1707299-BLK1) Prepared & Analyzed: 07/28/2017 | | | | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1707299-BS1) Prepared & Analyzed: 07/28/2017 | | | | | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 102 | 85-115 | | | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 104 | 85-115 | | | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | | 104 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 1707299 - E 200.7 (4.4) | | | | | | | | | | |
| LCS Dup (1707299-BSD1) | | | | Prepared & Analyzed: 07/28/2017 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 101 | 85-115 | 0.2 | 20 | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 104 | 85-115 | 0.4 | 20 | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | | 104 | 85-115 | 0.3 | 20 | |
| Matrix Spike (1707299-MS1) | | | | Source: 17G0658-01 | | Prepared & Analyzed: 07/28/2017 | | | | |
| Iron | 1.1 | 0.30 | mg/L | 1.000 | 0.025 | 103 | 70-130 | | | |
| Magnesium | 34 | 3.0 | mg/L | 10.00 | 25 | 94 | 70-130 | | | |
| Zinc | 0.65 | 0.040 | mg/L | 0.5000 | 0.15 | 100 | 70-130 | | | |
| Batch 1708017 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1708017-BLK1) | | | | Prepared: 08/01/2017 Analyzed: 08/03/2017 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1708017-BS1) | | | | Prepared: 08/01/2017 Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Arsenic | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Chromium | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Lead | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | | | |
| Manganese | 0.046 | 0.00025 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 94 | 85-115 | | | |
| Silver | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Thallium | 0.045 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---|---------------|------|-------------|-----|-----------|------|
| Batch 1708017 - E200.8 (5.4) | | | | | | | | | | |
| LCS Dup (1708017-BSD1) | | | | Prepared: 08/01/2017 Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | 0.8 | 20 | |
| Arsenic | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | 2 | 20 | |
| Beryllium | 0.049 | 0.00025 | mg/L | 0.05000 | | 99 | 85-115 | 2 | 20 | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | 1 | 20 | |
| Chromium | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | 0.8 | 20 | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 0.4 | 20 | |
| Lead | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | 0.2 | 20 | |
| Manganese | 0.045 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | 0.8 | 20 | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 0.1 | 20 | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 93 | 85-115 | 1 | 20 | |
| Silver | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | 1 | 20 | |
| Thallium | 0.046 | 0.00050 | mg/L | 0.05000 | | 91 | 85-115 | 0.8 | 20 | |
| Matrix Spike (1708017-MS1) | | | | | | | | | | |
| Source: 17G0743-07 | | | | Prepared: 08/01/2017 Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.046 | 0.00050 | mg/L | 0.05000 | 0.00051 | 91 | 70-130 | | | |
| Arsenic | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00092 | 94 | 70-130 | | | |
| Beryllium | 0.045 | 0.00025 | mg/L | 0.05000 | ND | 90 | 70-130 | | | |
| Cadmium | 0.046 | 0.00025 | mg/L | 0.05000 | 0.00018 | 91 | 70-130 | | | |
| Chromium | 0.054 | 0.00050 | mg/L | 0.05000 | 0.0069 | 94 | 70-130 | | | |
| Copper | 0.52 | 0.00050 | mg/L | 0.05000 | 0.48 | 85 | 70-130 | | | |
| Lead | 0.12 | 0.00050 | mg/L | 0.05000 | 0.070 | 98 | 70-130 | | | |
| Manganese | 0.048 | 0.00025 | mg/L | 0.05000 | 0.0021 | 91 | 70-130 | | | |
| Nickel | 0.086 | 0.00050 | mg/L | 0.05000 | 0.036 | 100 | 70-130 | | | |
| Selenium | 0.22 | 0.0025 | mg/L | 0.2500 | 0.0010 | 86 | 70-130 | | | |
| Silver | 0.039 | 0.00050 | mg/L | 0.05000 | 0.000055 | 78 | 70-130 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | ND | 96 | 70-130 | | | |
| Matrix Spike (1708017-MS2) | | | | | | | | | | |
| Source: 17G0743-08 | | | | Prepared: 08/01/2017 Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00088 | 92 | 70-130 | | | |
| Arsenic | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00094 | 93 | 70-130 | | | |
| Cadmium | 0.045 | 0.00025 | mg/L | 0.05000 | 0.000050 | 91 | 70-130 | | | |
| Chromium | 0.054 | 0.00050 | mg/L | 0.05000 | 0.0070 | 94 | 70-130 | | | |
| Copper | 0.50 | 0.00050 | mg/L | 0.05000 | 0.48 | 51 | 70-130 | | | M3 |
| Lead | 0.11 | 0.00050 | mg/L | 0.05000 | 0.063 | 94 | 70-130 | | | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | 0.0023 | 93 | 70-130 | | | |
| Nickel | 0.063 | 0.00050 | mg/L | 0.05000 | 0.016 | 95 | 70-130 | | | |
| Selenium | 0.22 | 0.0025 | mg/L | 0.2500 | 0.0011 | 88 | 70-130 | | | |
| Silver | 0.040 | 0.00050 | mg/L | 0.05000 | 0.000062 | 80 | 70-130 | | | |
| Thallium | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00023 | 94 | 70-130 | | | |
| Batch 1708028 - E 200.8 (5.4) | | | | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|------|
| Batch 1708028 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1708028-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 08/03/2017 | | | | | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1708028-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 08/03/2017 | | | | | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 100 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| LCS Dup (1708028-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 08/03/2017 | | | | | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 2 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.2 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.6 | 20 | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.6 | 20 | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.5 | 20 | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 1 | 20 | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 0.4 | 20 | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.2 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 101 | 85-115 | 0.3 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.07 | 20 | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.2 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---------------------------------|-------|-------------|---------------------------------|------|-------------|-----|-----------|------|
| Batch 1708028 - E 200.8 (5.4) | | | | | | | | | | |
| Matrix Spike (1708028-MS1) | | Source: 17G0659-01 | | | Prepared & Analyzed: 08/03/2017 | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00017 | 96 | 70-130 | | | |
| Arsenic | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0017 | 102 | 70-130 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.000018 | 96 | 70-130 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.00039 | 96 | 70-130 | | | |
| Chromium | 0.047 | 0.00050 | mg/L | 0.05000 | ND | 94 | 70-130 | | | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | 0.0020 | 91 | 70-130 | | | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00018 | 96 | 70-130 | | | |
| Manganese | 0.31 | 0.00025 | mg/L | 0.05000 | 0.27 | 73 | 70-130 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | 0.0012 | 92 | 70-130 | | | |
| Selenium | 0.27 | 0.0025 | mg/L | 0.2500 | 0.00045 | 108 | 70-130 | | | |
| Silver | 0.044 | 0.00050 | mg/L | 0.05000 | ND | 88 | 70-130 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | 0.000030 | 96 | 70-130 | | | |
| Batch 1708087 - E 245.1 | | | | | | | | | | |
| Blank (1708087-BLK1) | | Prepared & Analyzed: 08/07/2017 | | | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708087-BS1) | | Prepared & Analyzed: 08/07/2017 | | | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 107 | 85-115 | | | |
| LCS Dup (1708087-BSD1) | | Prepared & Analyzed: 08/07/2017 | | | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 109 | 85-115 | 1 | 20 | |
| Matrix Spike (1708087-MS1) | | Source: 17G0659-01 | | | Prepared & Analyzed: 08/07/2017 | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | ND | 104 | 85-115 | | | |
| Matrix Spike Dup (1708087-MSD1) | | Source: 17G0659-01 | | | Prepared & Analyzed: 08/07/2017 | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | 3 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0658
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1707298 - SM2540 D | | | | | | | | | | |
| Duplicate (1707298-DUP1) | | Source: 17G0337-01 | | | Prepared: 07/28/2017 Analyzed: 07/31/2017 | | | | | |
| Total Suspended Solids | 1.0 | 10 | mg/L | | 1.0 | | | 0 | 5 | |
| Duplicate (1707298-DUP2) | | Source: 17G0678-01 | | | Prepared: 07/28/2017 Analyzed: 07/31/2017 | | | | | |
| Total Suspended Solids | 200 | 10 | mg/L | | 200 | | | 3 | 5 | |

STORMWATER SAMPLE FORM

Field Staff Andrew Cunningham
 Notes _____

Company Arizona Mining

Weather Partly cloudy
 Rainfall (inches) 0.05

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|-----------|------------|-------------|--------------|---------|-----|-------------------------------|-----------------|--|
| outfall 1 | 7/24/17 | 5 gpm | 7/24/17 | 7:55 | 22.4 | 7.3 | 546.3 | 10.52 | clear, no odor |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|--------------|--|
| 250 ml | 1 | N | Y | Total | pH: Geotech YSI Professional Pro Turbidity: Micro TPN 60892 Calibration Date: pH: 7-29-17 Turbidity: 7-29-17 |
| 250 ml | 1 | N | N | DSS | |
| 250 ml | 1 | N | N | TSS | |
| | | | | | |
| | | | | | |
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| | | | | | |
| | | | | | |
| | | | | | |

Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.
 Total Metals - 250 ml container with nitric acid preservative.
 TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

Dos 500ml

Total P

| Stormwater Sampling Parameters | | | | | |
|--|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH ¹ | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ¹ pH, Temp, Cond, and Turbidty are Field Measurements | | | | | |



September 08, 2017

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

Work Order No.: 17H0811

RE: Storm Water

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 08/24/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17H0811-01 | Outfall 1 | Storm Water | 08/24/2017 0748 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

Case Narrative

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- M7 Matrix spike recovery was low. Data reported per ADEQ policy 0154.000. Matrix interference was confirmed.
- R13 MS/MSD RPD exceeded method acceptance limit. Matrix spike recovery was outside acceptance criteria. Batch precision and accuracy were demonstrated.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Lab Sample ID: 17H0811-01

Client Sample ID: Outfall 1
Collection Date/Time: 08/24/2017 0748
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 71 | | | | mg/L | 1 | 08/28/2017 1205 | 08/29/2017 1456 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 09/01/2017 1635 | 09/05/2017 1602 | MH |
| Zinc | 0.24 | | 0.040 | | mg/L | 1 | 09/01/2017 1635 | 09/05/2017 1602 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | ND | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Arsenic | 0.0029 | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Cadmium | 0.0015 | | 0.00025 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Copper | 0.033 | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Lead | 0.0034 | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Manganese | 0.33 | | 0.00025 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Nickel | 0.0035 | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Selenium | 0.00067 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1734 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 09/01/2017 1635 | 09/06/2017 1000 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000094 | 0.0010 | E8 | mg/L | 1 | 09/06/2017 1240 | 09/06/2017 1744 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 29 | | 4.0 | | mg/L | 1 | 08/28/2017 1205 | 08/29/2017 1456 | MH |
| Iron | 2.6 | | 0.30 | | mg/L | 1 | 08/28/2017 1205 | 08/29/2017 1456 | MH |
| Magnesium | ND | | 3.0 | | mg/L | 1 | 08/28/2017 1205 | 08/29/2017 1456 | MH |
| Zinc | 0.41 | | 0.040 | | mg/L | 1 | 08/28/2017 1205 | 08/29/2017 1456 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | 0.0028 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Arsenic | 0.049 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Lab Sample ID: 17H0811-01

Client Sample ID: Outfall 1
Collection Date/Time: 08/24/2017 0748
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|-----------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Beryllium | 0.00081 | | 0.00025 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Cadmium | 0.0043 | | 0.00025 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Chromium | 0.016 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Copper | 0.11 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Lead | 1.3 | | 0.0050 | | mg/L | 10 | 08/29/2017 1045 | 08/31/2017 1132 | MH |
| Manganese | 2.8 | | 0.0025 | | mg/L | 10 | 08/29/2017 1045 | 08/31/2017 1132 | MH |
| Nickel | 0.021 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Selenium | ND | | 0.0025 | | mg/L | 1 | 08/29/2017 1045 | 08/30/2017 1514 | MH |
| Silver | 0.0050 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| Thallium | 0.00053 | | 0.00050 | | mg/L | 1 | 08/29/2017 1045 | 08/31/2017 1219 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | 0.0000900 | 0.000079 | 0.0010 | E4 | mg/L | 1 | 08/30/2017 1310 | 08/30/2017 1751 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | 240 | | 10 | | mg/L | 1 | 08/29/2017 0830 | 08/30/2017 1640 | LH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|------|
| Batch 1708368 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1708368-BLK1) Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1708368-BS1) Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | | | |
| Calcium | 10 | 4.0 | mg/L | 10.00 | | 101 | 85-115 | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 105 | 85-115 | | | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 101 | 85-115 | | | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 97 | 85-115 | | | |
| LCS Dup (1708368-BSD1) Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | | | |
| Calcium | 9.9 | 4.0 | mg/L | 10.00 | | 99 | 85-115 | 2 | 20 | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 103 | 85-115 | 1 | 20 | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 100 | 85-115 | 1 | 20 | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 96 | 85-115 | 1 | 20 | |
| Matrix Spike (1708368-MS1) Source: 17H0784-01 Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | | | |
| Calcium | 81 | 4.0 | mg/L | 10.00 | 70 | 104 | 70-130 | | | |
| Iron | 2.8 | 0.30 | mg/L | 1.000 | 2.0 | 78 | 70-130 | | | |
| Magnesium | 27 | 3.0 | mg/L | 10.00 | 17 | 99 | 70-130 | | | |
| Zinc | 0.63 | 0.040 | mg/L | 0.5000 | 0.16 | 93 | 70-130 | | | |
| Matrix Spike (1708368-MS2) Source: 17H0796-02 Prepared: 08/28/2017 Analyzed: 08/29/2017 | | | | | | | | | | |
| Calcium | 130 | 4.0 | mg/L | 10.00 | 110 | 139 | 70-130 | | | M3 |
| Iron | 1.8 | 0.30 | mg/L | 1.000 | 0.64 | 112 | 70-130 | | | |
| Magnesium | 58 | 3.0 | mg/L | 10.00 | 47 | 114 | 70-130 | | | |
| Zinc | 0.51 | 0.040 | mg/L | 0.5000 | 0.017 | 98 | 70-130 | | | |
| Batch 1708389 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1708389-BLK1) Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Qual |
|-------------------------------------|--------|---------------------------|-------|---|---------------|-----------|--------|------|-----------|------|
| Batch 1708389 - E200.8 (5.4) | | | | | | | | | | |
| LCS (1708389-BS1) | | | | Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Arsenic | 0.056 | 0.00050 | mg/L | 0.05000 | | 111 | 85-115 | | | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Manganese | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 92 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| LCS Dup (1708389-BSD1) | | | | | | | | | | |
| | | | | Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 0.4 | 20 | |
| Arsenic | 0.055 | 0.00050 | mg/L | 0.05000 | | 110 | 85-115 | 0.8 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 103 | 85-115 | 2 | 20 | |
| Cadmium | 0.049 | 0.00025 | mg/L | 0.05000 | | 99 | 85-115 | 0.4 | 20 | |
| Chromium | 0.052 | 0.00050 | mg/L | 0.05000 | | 103 | 85-115 | 0.4 | 20 | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.5 | 20 | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 0.2 | 20 | |
| Manganese | 0.052 | 0.00025 | mg/L | 0.05000 | | 103 | 85-115 | 1 | 20 | |
| Nickel | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 5 | 20 | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 91 | 85-115 | 0.04 | 20 | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.3 | 20 | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.3 | 20 | |
| Matrix Spike (1708389-MS1) | | | | | | | | | | |
| | | Source: 17H0804-01 | | Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | | |
| Antimony | 0.040 | 0.00050 | mg/L | 0.05000 | 0.00040 | 79 | 70-130 | | | |
| Arsenic | 0.061 | 0.0050 | mg/L | 0.05000 | 0.0044 | 114 | 70-130 | | | |
| Beryllium | 0.054 | 0.0025 | mg/L | 0.05000 | 0.00016 | 107 | 70-130 | | | |
| Cadmium | 0.052 | 0.0025 | mg/L | 0.05000 | 0.000092 | 104 | 70-130 | | | |
| Chromium | 0.053 | 0.0050 | mg/L | 0.05000 | 0.0036 | 100 | 70-130 | | | |
| Copper | 0.056 | 0.00050 | mg/L | 0.05000 | 0.0091 | 95 | 70-130 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | 0.0029 | 94 | 70-130 | | | |
| Manganese | 0.17 | 0.0025 | mg/L | 0.05000 | 0.14 | 61 | 70-130 | | | M7 |
| Nickel | 0.053 | 0.0050 | mg/L | 0.05000 | 0.0019 | 103 | 70-130 | | | |
| Selenium | 0.22 | 0.0025 | mg/L | 0.2500 | ND | 90 | 70-130 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | 0.00011 | 97 | 70-130 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00013 | 99 | 70-130 | | | |
| Batch 1708401 - E245.1 | | | | | | | | | | |
| Blank (1708401-BLK1) | | | | Prepared & Analyzed: 08/30/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708401-BS1) | | | | Prepared & Analyzed: 08/30/2017 | | | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | | 101 | 85-115 | | | |

Client: Arizona Minerals Inc.
 Project: Storm Water
 Work Order: 17H0811
 Date Received: 08/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---------------------------------|---------------|---------------------------------|-------------|-----|-----------|------|
| Batch 1708401 - E245.1 | | | | | | | | | | |
| LCS Dup (1708401-BSD1) | | | | Prepared & Analyzed: 08/30/2017 | | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | | 105 | 85-115 | 3 | 20 | |
| Matrix Spike (1708401-MS1) | | | | Source: 17H0796-03 | | Prepared & Analyzed: 08/30/2017 | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | ND | 99 | 85-115 | | | |
| Matrix Spike (1708401-MS2) | | | | Source: 17H0840-01 | | Prepared & Analyzed: 08/30/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 102 | 85-115 | | | |
| Matrix Spike Dup (1708401-MSD1) | | | | Source: 17H0796-03 | | Prepared & Analyzed: 08/30/2017 | | | | |
| Mercury | 0.0045 | 0.0010 | mg/L | 0.005000 | ND | 90 | 85-115 | 10 | 20 | |
| Matrix Spike Dup (1708401-MSD2) | | | | Source: 17H0840-01 | | Prepared & Analyzed: 08/30/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 102 | 85-115 | 0.4 | 20 | |
| Batch 1709025 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1709025-BLK1) | | | | Prepared & Analyzed: 09/05/2017 | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1709025-BS1) | | | | Prepared & Analyzed: 09/05/2017 | | | | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 105 | 85-115 | | | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | | 103 | 85-115 | | | |
| LCS Dup (1709025-BSD1) | | | | Prepared & Analyzed: 09/05/2017 | | | | | | |
| Iron | 1.1 | 0.30 | mg/L | 1.000 | | 108 | 85-115 | 3 | 20 | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | | 106 | 85-115 | 3 | 20 | |
| Matrix Spike (1709025-MS1) | | | | Source: 17H0829-01 | | Prepared & Analyzed: 09/05/2017 | | | | |
| Iron | 2.4 | 0.30 | mg/L | 1.000 | 1.4 | 106 | 70-130 | | | |
| Zinc | 0.69 | 0.040 | mg/L | 0.5000 | 0.18 | 102 | 70-130 | | | |
| Matrix Spike (1709025-MS2) | | | | Source: 17H0900-02 | | Prepared & Analyzed: 09/05/2017 | | | | |
| Iron | 1.1 | 3.0 | mg/L | 1.000 | 0.013 | 106 | 70-130 | | | |
| Zinc | 17 | 0.40 | mg/L | 0.5000 | 17 | NR | 70-130 | | | M3 |
| Batch 1709031 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1709031-BLK1) | | | | Prepared & Analyzed: 09/06/2017 | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | Limit | RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---|---------------|---------------------------------|--------|------|-----------|------|
| Batch 1709031 - E 200.8 (5.4) | | | | | | | | | | |
| LCS (1709031-BS1) | | | | Prepared & Analyzed: 09/06/2017 | | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | | 97 | 85-115 | | | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| LCS Dup (1709031-BSD1) | | | | Prepared & Analyzed: 09/06/2017 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.7 | 20 | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.2 | 20 | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | 0.8 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | 0.02 | 20 | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.03 | 20 | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.2 | 20 | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.4 | 20 | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.2 | 20 | |
| Nickel | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 1 | 20 | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | | 97 | 85-115 | 0.4 | 20 | |
| Silver | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.4 | 20 | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 0.1 | 20 | |
| Matrix Spike (1709031-MS1) | | | | Source: 17H0811-01 | | Prepared & Analyzed: 09/06/2017 | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00047 | 100 | 70-130 | | | |
| Arsenic | 0.062 | 0.00050 | mg/L | 0.05000 | 0.0029 | 118 | 70-130 | | | |
| Beryllium | 0.049 | 0.00025 | mg/L | 0.05000 | 0.000073 | 98 | 70-130 | | | |
| Cadmium | 0.051 | 0.00025 | mg/L | 0.05000 | 0.0015 | 98 | 70-130 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00016 | 99 | 70-130 | | | |
| Copper | 0.080 | 0.00050 | mg/L | 0.05000 | 0.033 | 94 | 70-130 | | | |
| Lead | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0034 | 99 | 70-130 | | | |
| Manganese | 0.38 | 0.00025 | mg/L | 0.05000 | 0.33 | 89 | 70-130 | | | |
| Nickel | 0.052 | 0.00050 | mg/L | 0.05000 | 0.0035 | 97 | 70-130 | | | |
| Selenium | 0.26 | 0.0025 | mg/L | 0.2500 | 0.00067 | 105 | 70-130 | | | |
| Silver | 0.044 | 0.00050 | mg/L | 0.05000 | 0.000050 | 87 | 70-130 | | | |
| Thallium | 0.052 | 0.00050 | mg/L | 0.05000 | 0.00011 | 104 | 70-130 | | | |
| Batch 1709046 - E 245.1 | | | | | | | | | | |
| Blank (1709046-BLK1) | | | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1709046-BS1) | | | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | | | |
| Mercury | 0.0048 | 0.0010 | mg/L | 0.005000 | | 97 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

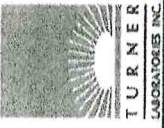
QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---|-------------|-----|-----------|---------|
| Batch 1709046 - E 245.1 | | | | | | | | | | |
| LCS Dup (1709046-BSD1) | | | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | | 98 | 85-115 | 2 | 20 | |
| Matrix Spike (1709046-MS1) | | | | Source: 17H0804-01 | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | |
| Mercury | 0.0047 | 0.0010 | mg/L | 0.005000 | ND | 94 | 85-115 | | | |
| Matrix Spike (1709046-MS2) | | | | Source: 17H0829-01 | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | |
| Mercury | 0.0049 | 0.0010 | mg/L | 0.005000 | ND | 98 | 85-115 | | | |
| Matrix Spike Dup (1709046-MSD1) | | | | Source: 17H0804-01 | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | |
| Mercury | 0.0035 | 0.0010 | mg/L | 0.005000 | ND | 71 | 85-115 | 28 | 20 | M7, R13 |
| Matrix Spike Dup (1709046-MSD2) | | | | Source: 17H0829-01 | | Prepared: 08/06/2017 Analyzed: 09/06/2017 | | | | |
| Mercury | 0.0050 | 0.0010 | mg/L | 0.005000 | ND | 99 | 85-115 | 0.8 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0811
Date Received: 08/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1708367 - SM2540 D | | | | | | | | | | |
| Duplicate (1708367-DUP1) | | Source: 17H0645-01 | | | Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | |
| Total Suspended Solids | 65 | 10 | mg/L | | 67 | | | 3 | 5 | |
| Duplicate (1708367-DUP2) | | Source: 17H0757-01 | | | Prepared: 08/29/2017 Analyzed: 08/30/2017 | | | | | |
| Total Suspended Solids | ND | 10 | mg/L | | 0.0 | | | | 5 | |



2445 N. Coyote Drive, Suite 104
 Tucson, Arizona 85745
 (520) 882-5880
 Fax: (520) 882-9788
 www.turnerlabs.com

CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

TURNER WORK ORDER # 1710811 DATE 8-24-17 PAGE 1 OF 3

| | | | |
|---|----------------|---|----------------|
| PROJECT NAME: <u>Hermisa Taylor Deposit #</u> | | CIRCLE ANALYSIS REQUESTED AND/OR CHECK THE APPROPRIATE BOX | |
| CONTACT NAME: <u>Johnny Pappas</u> | | | |
| COMPANY NAME: <u>A2 Minerals Inc.</u> | | | |
| ADDRESS: <u>3845 N Business Center Dr Suite 115</u> | | | |
| CITY: <u>Tucson</u> STATE: <u>AZ</u> ZIP CODE: <u>85705</u> | | | |
| PHONE: <u>520-485-1300</u> FAX: _____ | | | |
| SAMPLER'S SIGNATURE: _____ | | | |
| NUMBER OF CONTAINERS | | | |
| See attached | | | |
| SAMPLE I.D. | | DATE | TIME |
| LAB I.D. | | SAMPLE MATRIX* | |
| <u>Outfall 1</u> | <u>8-24-17</u> | <u>7:48</u> | <u>TSS/DIS</u> |
| <u>Outfall 1</u> | <u>8-24-17</u> | <u>7:48</u> | <u>Metals</u> |
| | | | <u>Total</u> |
| 1. RELINQUISHED BY: | | 2. RECEIVED BY: | |
| Signature: <u>Sheila Oliver</u> | | Signature: <u>Sarah Richman</u> | |
| Printed Name: <u>A2 Minerals</u> | | Printed Name: <u>Sarah Richman</u> | |
| Firm: <u>8-24-17/7:48am</u> | | Firm: <u>AMJ</u> | |
| Date/Time: <u>8/24/17 7:48</u> | | Date/Time: <u>8/24/17 7:48</u> | |
| 3. RELINQUISHED BY: | | 4. RECEIVED BY: | |
| Signature: <u>Sarah Richman</u> | | Signature: <u>Joseph Catalano</u> | |
| Printed Name: <u>AMJ</u> | | Printed Name: <u>TURNER LABORATORIES, INC.</u> | |
| Firm: <u>8/24/17 1023</u> | | Firm: <u>8/24/17 1623</u> | |
| Date/Time: _____ | | Date/Time: _____ | |
| TURNAROUND REQUIREMENTS: | | REPORT REQUIREMENTS: | |
| Standard (approx. 10 days)* | | I. Routine Report _____ | |
| Next day _____ 2 Day _____ 5 Day* _____ | | II. Report (includes DUP, IMS, MSD, as required, may be charged as samples) _____ | |
| Email Preliminary Results To: _____ | | III. Date Validation Report (includes All Raw Data) _____ | |
| * Working Days | | Add 10% to invoice | |
| # LEGEND | | INVOICE INFORMATION: | |
| DW = DRINKING WATER | | Account _____ Y _____ N | |
| GW = GROUNDWATER | | P.O. # _____ | |
| SD = SOLID | | Bill to: _____ | |
| SG = SLUDGE | | Total Containers <u>2</u> | |
| SL = SOIL | | Temperature <u>7.3</u> | |
| ST = STORMWATER | | <input type="checkbox"/> Wet Ice <input type="checkbox"/> Blue Ice | |
| WW = WASTEWATER | | SPECIAL INSTRUCTIONS/COMMENTS: | |
| | | Compliance Analysis: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Custody Seals <input type="checkbox"/> Preservation Confirmation <input checked="" type="checkbox"/> | |
| | | ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Container Intact <input checked="" type="checkbox"/> Appropriate Head Space <input type="checkbox"/> | |
| | | Mail ADEQ Forms: <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> COC/Labels Agree <input type="checkbox"/> Received Within Hold Time <input checked="" type="checkbox"/> | |

STORMWATER SAMPLE FORM

Field Staff Sheila Oliver

Company AZ minerals

Weather Sunny, clear

Notes _____

Rainfall (inches) .6 in

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|-----------|------------|-------------|--------------|---------|------|-------------------------------|-----------------|--|
| outfall 0 | 8-24-17 | — | 8-24-17 | 7:48am | 19.8°C | 6.43 | 323 | 982.0 | Discolored, brown, no odor |
| | | | | | | | | | |
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Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|--------------|--|
| 500ml | 1 | N | N | TSS/DIS | pH: YSI professional plus Turbidity: MICROTPW 60692 |
| 250ml | 1 | N | Y | Total | Calibration Date: pH 8-24-17 Turb 8-24-17 |
| | | | | | |
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Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.
 Total Metals - 250 ml container with nitric acid preservative.
 TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

| Stormwater Sampling Parameters | | | | | |
|--|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH ¹ | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| ¹ pH, Temp, Cond, and Turbidty are Field Measurements | | | | | |



August 08, 2017

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

RE: Storm Water

Work Order No.: 17G0659
Order Name: Hermosa Taylor
Deposits

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 07/24/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

Order: Hermosa Taylor Deposits

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17G0659-01 | Outfall 2 | Storm Water | 07/24/2017 0732 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

Case Narrative

E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.

E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

ND Not Detected at or above the PQL

PQL Practical Quantitation Limit

DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Lab Sample ID: 17G0659-01

Client Sample ID: Outfall 2
Collection Date/Time: 07/24/2017 0732
Matrix: Storm Water
Order Name: Hermosa Taylor Deposits

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|----------|--------|-----|-----|------|-------|----|-----------|---------------|---------|
|----------|--------|-----|-----|------|-------|----|-----------|---------------|---------|

Hardness-Calculation

| | | | | | | | | | |
|--|-----|--|--|--|------|---|-----------------|-----------------|----|
| Hardness, Calcium/Magnesium (As CaCO3) | 110 | | | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1306 | MH |
|--|-----|--|--|--|------|---|-----------------|-----------------|----|

ICP Dissolved Metals-E 200.7 (4.4)

| | | | | | | | | | |
|-----------|-------|--|-------|--|------|---|-----------------|-----------------|----|
| Iron | ND | | 0.30 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1148 | MH |
| Magnesium | 14 | | 3.0 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1148 | MH |
| Zinc | 0.095 | | 0.040 | | mg/L | 1 | 07/28/2017 0935 | 07/28/2017 1148 | MH |

ICP/MS Dissolved Metals-E 200.8 (5.4)

| | | | | | | | | | |
|-----------|---------|---------|---------|----|------|---|-----------------|-----------------|----|
| Antimony | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Arsenic | 0.0017 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Cadmium | 0.00039 | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Copper | 0.0020 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Manganese | 0.27 | | 0.00025 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Nickel | 0.0012 | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Selenium | 0.00045 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 07/28/2017 0935 | 08/03/2017 1031 | MH |

CVAA Dissolved Mercury-E 245.1

| | | | | | | | | | |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|
| Mercury | ND | 0.000094 | 0.0010 | E8 | mg/L | 1 | 08/07/2017 1300 | 08/07/2017 1935 | MH |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|

ICP Total Metals-E200.7 (4.4)

| | | | | | | | | | |
|-----------|------|--|-------|--|------|---|-----------------|-----------------|----|
| Calcium | 20 | | 4.0 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1306 | MH |
| Iron | 1.8 | | 0.30 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1306 | MH |
| Magnesium | 14 | | 3.0 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1306 | MH |
| Zinc | 0.13 | | 0.040 | | mg/L | 1 | 07/25/2017 1200 | 07/26/2017 1307 | MH |

ICP/MS Total Metals-E200.8 (5.4)

| | | | | | | | | | |
|----------|----|--|---------|--|------|---|-----------------|-----------------|----|
| Antimony | ND | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
|----------|----|--|---------|--|------|---|-----------------|-----------------|----|

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Lab Sample ID: 17G0659-01

Client Sample ID: Outfall 2
Collection Date/Time: 07/24/2017 0732
Matrix: Storm Water
Order Name: Hermosa Taylor Deposits

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|-----------|---------|---------|---------|------|-------|----|-----------------|-----------------|---------|
| Arsenic | 0.0043 | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Cadmium | 0.00046 | | 0.00025 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Chromium | 0.0024 | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Copper | 0.0057 | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Lead | 0.018 | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Manganese | 0.52 | | 0.00025 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Nickel | 0.0021 | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Selenium | 0.00033 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 07/27/2017 1030 | 07/31/2017 1102 | MH |

CVAA Total Mercury-E245.1

| | | | | | | | | | |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 07/27/2017 1145 | 07/27/2017 1558 | MH |
|---------|----|----------|--------|----|------|---|-----------------|-----------------|----|

Total Suspended Solids (Residue, Non-Filterable)-SM2540 D

| | | | | | | | | | |
|------------------------|----|--|----|--|------|---|-----------------|-----------------|----|
| Total Suspended Solids | 22 | | 10 | | mg/L | 1 | 07/28/2017 0850 | 07/31/2017 1340 | LH |
|------------------------|----|--|----|--|------|---|-----------------|-----------------|----|

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---|-------------|---------|-----------|------|
| Batch 1707266 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1707266-BLK1) | | | | Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1707266-BS1) | | | | Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | |
| Calcium | 9.7 | 4.0 | mg/L | 10.00 | | 97 | 85-115 | | | |
| Iron | 0.99 | 0.30 | mg/L | 1.000 | | 99 | 85-115 | | | |
| Magnesium | 9.8 | 3.0 | mg/L | 10.00 | | 98 | 85-115 | | | |
| Zinc | 0.47 | 0.040 | mg/L | 0.5000 | | 94 | 85-115 | | | |
| LCS Dup (1707266-BSD1) | | | | Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | | | |
| Calcium | 9.6 | 4.0 | mg/L | 10.00 | | 96 | 85-115 | 0.8 | 20 | |
| Iron | 0.98 | 0.30 | mg/L | 1.000 | | 98 | 85-115 | 0.8 | 20 | |
| Magnesium | 9.7 | 3.0 | mg/L | 10.00 | | 97 | 85-115 | 0.8 | 20 | |
| Zinc | 0.47 | 0.040 | mg/L | 0.5000 | | 93 | 85-115 | 0.7 | 20 | |
| Matrix Spike (1707266-MS1) | | | | Source: 17G0681-01 | | Prepared: 07/25/2017 Analyzed: 07/26/2017 | | | | |
| Calcium | 54 | 4.0 | mg/L | 10.00 | 45 | 86 | 70-130 | | | |
| Iron | 1.2 | 0.30 | mg/L | 1.000 | 0.27 | 98 | 70-130 | | | |
| Magnesium | 12 | 3.0 | mg/L | 10.00 | 2.0 | 97 | 70-130 | | | |
| Zinc | 0.53 | 0.040 | mg/L | 0.5000 | 0.047 | 96 | 70-130 | | | |
| Batch 1707291 - E245.1 | | | | | | | | | | |
| Blank (1707291-BLK1) | | | | Prepared & Analyzed: 07/27/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1707291-BS1) | | | | Prepared & Analyzed: 07/27/2017 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 105 | 85-115 | | | |
| LCS Dup (1707291-BSD1) | | | | Prepared & Analyzed: 07/27/2017 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 105 | 85-115 | 0.3 | 20 | |
| Matrix Spike (1707291-MS1) | | | | Source: 17G0718-01 | | Prepared & Analyzed: 07/27/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 101 | 85-115 | | | |
| Matrix Spike Dup (1707291-MSD1) | | | | Source: 17G0718-01 | | Prepared & Analyzed: 07/27/2017 | | | | |
| Mercury | 0.0051 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | 1 | 20 | |
| Batch 1707293 - E200.8 (5.4) | | | | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----------------|-------|-------------|---|-----------|-------------|---------|-----------|------|
| Batch 1707293 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1707293-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 07/27/2017 Analyzed: 07/31/2017 | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1707293-BS1) | | | | | | | | | | |
| | | | | | Prepared: 07/27/2017 Analyzed: 07/31/2017 | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Arsenic | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 102 | 85-115 | | | |
| Cadmium | 0.047 | 0.00025 | mg/L | 0.05000 | | 94 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Manganese | 0.046 | 0.00025 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Nickel | 0.043 | 0.00050 | mg/L | 0.05000 | | 87 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 98 | 85-115 | | | |
| Silver | 0.048 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| LCS Dup (1707293-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 07/27/2017 Analyzed: 07/31/2017 | | | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 1 | 20 | |
| Arsenic | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.3 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.9 | 20 | |
| Cadmium | 0.047 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | 0.3 | 20 | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 1 | 20 | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | 1 | 20 | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 0.6 | 20 | |
| Manganese | 0.046 | 0.00025 | mg/L | 0.05000 | | 91 | 85-115 | 2 | 20 | |
| Nickel | 0.043 | 0.00050 | mg/L | 0.05000 | | 87 | 85-115 | 0.06 | 20 | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | | 97 | 85-115 | 1 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 0.5 | 20 | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | 0.2 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
|---------|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|

Batch 1707293 - E200.8 (5.4)

| Matrix Spike (1707293-MS1) | | Source: 17G0659-01 | | Prepared: 07/27/2017 Analyzed: 07/31/2017 | | | | | | |
|-----------------------------------|-------|---------------------------|------|--|----------|----|--------|--|--|--|
| Antimony | 0.045 | 0.00050 | mg/L | 0.05000 | 0.00046 | 88 | 70-130 | | | |
| Arsenic | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0043 | 97 | 70-130 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.000051 | 96 | 70-130 | | | |
| Cadmium | 0.047 | 0.00025 | mg/L | 0.05000 | 0.00046 | 94 | 70-130 | | | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | 0.0024 | 97 | 70-130 | | | |
| Copper | 0.052 | 0.00050 | mg/L | 0.05000 | 0.0057 | 93 | 70-130 | | | |
| Lead | 0.065 | 0.00050 | mg/L | 0.05000 | 0.018 | 93 | 70-130 | | | |
| Manganese | 0.56 | 0.00025 | mg/L | 0.05000 | 0.52 | 80 | 70-130 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | 0.0021 | 90 | 70-130 | | | |
| Selenium | 0.24 | 0.0025 | mg/L | 0.2500 | 0.00033 | 98 | 70-130 | | | |
| Silver | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00020 | 94 | 70-130 | | | |
| Thallium | 0.047 | 0.00050 | mg/L | 0.05000 | ND | 94 | 70-130 | | | |

Batch 1707299 - E 200.7 (4.4)

| Blank (1707299-BLK1) | | | | Prepared & Analyzed: 07/28/2017 | | | | | | |
|-----------------------------|----|-------|------|--|--|--|--|--|--|--|
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |

| LCS (1707299-BS1) | | | | Prepared & Analyzed: 07/28/2017 | | | | | | |
|--------------------------|------|-------|------|--|--|-----|--------|--|--|--|
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 102 | 85-115 | | | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 104 | 85-115 | | | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | | 104 | 85-115 | | | |

| LCS Dup (1707299-BSD1) | | | | Prepared & Analyzed: 07/28/2017 | | | | | | |
|-------------------------------|------|-------|------|--|--|-----|--------|-----|----|--|
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 101 | 85-115 | 0.2 | 20 | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 104 | 85-115 | 0.4 | 20 | |
| Zinc | 0.52 | 0.040 | mg/L | 0.5000 | | 104 | 85-115 | 0.3 | 20 | |

| Matrix Spike (1707299-MS1) | | Source: 17G0658-01 | | Prepared & Analyzed: 07/28/2017 | | | | | | |
|-----------------------------------|------|---------------------------|------|--|-------|-----|--------|--|--|--|
| Iron | 1.1 | 0.30 | mg/L | 1.000 | 0.025 | 103 | 70-130 | | | |
| Magnesium | 34 | 3.0 | mg/L | 10.00 | 25 | 94 | 70-130 | | | |
| Zinc | 0.65 | 0.040 | mg/L | 0.5000 | 0.15 | 100 | 70-130 | | | |

Batch 1708028 - E 200.8 (5.4)

| Blank (1708028-BLK1) | | | | Prepared & Analyzed: 08/03/2017 | | | | | | |
|-----------------------------|----|---------|------|--|--|--|--|--|--|--|
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|---------------------------------|---------------|-----------|---------------------------------|---------|-----------|------|
| Batch 1708028 - E 200.8 (5.4) | | | | | | | | | | |
| LCS (1708028-BS1) | | | | Prepared & Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Arsenic | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 100 | 85-115 | | | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | | | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| LCS Dup (1708028-BSD1) | | | | | | | | | | |
| | | | | Prepared & Analyzed: 08/03/2017 | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 2 | 20 | |
| Beryllium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.2 | 20 | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.6 | 20 | |
| Chromium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.6 | 20 | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.5 | 20 | |
| Lead | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 1 | 20 | |
| Manganese | 0.049 | 0.00025 | mg/L | 0.05000 | | 98 | 85-115 | 0.4 | 20 | |
| Nickel | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.2 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 101 | 85-115 | 0.3 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.07 | 20 | |
| Thallium | 0.049 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.2 | 20 | |
| Matrix Spike (1708028-MS1) | | | | | | | | | | |
| | | | | Source: 17G0659-01 | | | Prepared & Analyzed: 08/03/2017 | | | |
| Antimony | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00017 | 96 | 70-130 | | | |
| Arsenic | 0.053 | 0.00050 | mg/L | 0.05000 | 0.0017 | 102 | 70-130 | | | |
| Beryllium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.000018 | 96 | 70-130 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | 0.00039 | 96 | 70-130 | | | |
| Chromium | 0.047 | 0.00050 | mg/L | 0.05000 | ND | 94 | 70-130 | | | |
| Copper | 0.048 | 0.00050 | mg/L | 0.05000 | 0.0020 | 91 | 70-130 | | | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | 0.00018 | 96 | 70-130 | | | |
| Manganese | 0.31 | 0.00025 | mg/L | 0.05000 | 0.27 | 73 | 70-130 | | | |
| Nickel | 0.047 | 0.00050 | mg/L | 0.05000 | 0.0012 | 92 | 70-130 | | | |
| Selenium | 0.27 | 0.0025 | mg/L | 0.2500 | 0.00045 | 108 | 70-130 | | | |
| Silver | 0.044 | 0.00050 | mg/L | 0.05000 | ND | 88 | 70-130 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | 0.000030 | 96 | 70-130 | | | |
| Batch 1708087 - E 245.1 | | | | | | | | | | |
| Blank (1708087-BLK1) | | | | Prepared & Analyzed: 08/07/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708087-BS1) | | | | Prepared & Analyzed: 08/07/2017 | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 107 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|--|---------------|------|-------------|-----|-----------|------|
| Batch 1708087 - E 245.1 | | | | | | | | | | |
| LCS Dup (1708087-BSD1) | | | | Prepared & Analyzed: 08/07/2017 | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 109 | 85-115 | 1 | 20 | |
| Matrix Spike (1708087-MS1) | | | | Source: 17G0659-01 Prepared & Analyzed: 08/07/2017 | | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | ND | 104 | 85-115 | | | |
| Matrix Spike Dup (1708087-MSD1) | | | | Source: 17G0659-01 Prepared & Analyzed: 08/07/2017 | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | 3 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17G0659
Date Received: 07/24/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---|--------|-----------------|-------|-------------|---------------|------|-------------|-----|-----------|------|
| Batch 1707298 - SM2540 D | | | | | | | | | | |
| Duplicate (1707298-DUP1) Source: 17G0337-01 Prepared: 07/28/2017 Analyzed: 07/31/2017 | | | | | | | | | | |
| Total Suspended Solids | 1.0 | 10 | mg/L | | 1.0 | | | 0 | 5 | |
| Duplicate (1707298-DUP2) Source: 17G0678-01 Prepared: 07/28/2017 Analyzed: 07/31/2017 | | | | | | | | | | |
| Total Suspended Solids | 200 | 10 | mg/L | | 200 | | | 3 | 5 | |

STORMWATER SAMPLE FORM

Field Staff Andrew Cunningham

Company Arizona Mining

Weather Partly cloudy

Notes

Rainfall (inches) .05

| Sample Location | Sample ID | Flow (gpm) | Sample Date | Time Sampled | Temp °C | pH | Specific Conductivity (µs/cm) | Turbidity (NTU) | Appearance of Water: (color, odor, etc) or other notes |
|-----------------|-----------|------------|-------------|--------------|---------|------|-------------------------------|-----------------|--|
| outfall 2 | 7/24/17 | 10 gpm | 7/24/17 | 7:32 | 20.8 | 5.78 | 286.4 | 49.29 | Murky, slight discoloration, odor |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |
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| | | | | | | | | | |

Sample Laboratory Information

| Container Volume | No of Containers | Filtered Y/N | Preservative | Lab Analysis | Meter: |
|------------------|------------------|--------------|--------------|--------------|----------------------------------|
| 250 ml | 1 | N | Y | Total | pH: Geotech YSI Professional Pro |
| 500 ml | 1 | N | N | DIS & TSS | Turbidity: Micro TRW 60692 |
| | | | | | Calibration Date: |
| | | | | | ph 7-24-17 |
| | | | | | turbidity 7-24-17 |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

Dissolved Metals - Filter (0.45 micron filter) prior to placing into 250 ml container with nitric acid preservative.

Total Metals - 250 ml container with nitric acid preservative.

TSS, Hardness (Calcium, Magnesium) - 250 ml container with NO preservative.

| Stormwater Sampling Parameters | | | | | |
|--|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH ¹ | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |

¹pH, Temp, Cond, and Turbidity are Field Measurements

Dis 500ml
Total P



August 21, 2017

Johnny Pappas
Arizona Minerals Inc.
3845 North Business Center Drive, Suite 115
Tucson, AZ 85705

TEL (802) 235-5563
FAX

Work Order No.: 17H0077

RE: Storm Water

Dear Johnny Pappas,

Turner Laboratories, Inc. received 1 sample(s) on 08/01/2017 for the analyses presented in the following report.

All results are intended to be considered in their entirety, and Turner Laboratories, Inc. is not responsible for use of less than the complete report. Results apply only to the samples analyzed. Samples will be disposed of 30 days after issue of our report unless special arrangements are made.

The pages that follow may contain sensitive, privileged or confidential information intended solely for the addressee named above. If you receive this message and are not the agent or employee of the addressee, this communication has been sent in error. Please do not disseminate or copy any of the attached and notify the sender immediately by telephone. Please also return the attached sheet(s) to the sender by mail.

Please call if you have any questions.

Respectfully submitted,

Turner Laboratories, Inc.
ADHS License AZ0066

Max DiSante
Laboratory Director

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

Work Order Sample Summary

| Lab Sample ID | Client Sample ID | Matrix | Collection Date/Time |
|----------------------|-------------------------|---------------|-----------------------------|
| 17H0077-01 | Outfall 2 | Storm Water | 08/01/2017 0811 |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

Case Narrative

- E4 Concentration estimated. Analyte was detected below laboratory Minimum Reporting Limit (MRL) but above MDL.
- E8 Analyte reported to MDL per project specification. Target analyte was not detected in the sample.
- L5 The associated blank spike recovery was above laboratory/method acceptance limits. This analyte was not detected in the sample.
- M3 The spike recovery value is unusable since the analyte concentration in the sample is disproportionate to the spike level. The associated LCS/LCSD recovery was acceptable.
- V1 CCV recovery was above method acceptance limits. This target analyte was not detected in the sample.

All soil, sludge, and solid matrix determinations are reported on a wet weight basis unless otherwise noted.

- ND Not Detected at or above the PQL
- PQL Practical Quantitation Limit
- DF Dilution Factor

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Lab Sample ID: 17H0077-01

Client Sample ID: Outfall 2
Collection Date/Time: 08/01/2017 0811
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Hardness-Calculation | | | | | | | | | |
| Hardness, Calcium/Magnesium (As CaCO3) | 1500 | | | | mg/L | 1 | 08/09/2017 1155 | 08/10/2017 1542 | MH |
| ICP Dissolved Metals-E 200.7 (4.4) | | | | | | | | | |
| Iron | ND | | 0.30 | | mg/L | 1 | 08/10/2017 1640 | 08/16/2017 1659 | MH |
| Zinc | 0.81 | | 0.040 | | mg/L | 1 | 08/10/2017 1640 | 08/16/2017 1659 | MH |
| ICP/MS Dissolved Metals-E 200.8 (5.4) | | | | | | | | | |
| Antimony | ND | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Arsenic | 0.00093 | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Beryllium | ND | | 0.00025 | V1 | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Cadmium | 0.0036 | | 0.00025 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Chromium | ND | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Copper | 0.0038 | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Lead | ND | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/16/2017 1243 | MH |
| Manganese | 1.9 | | 0.013 | | mg/L | 50 | 08/10/2017 1640 | 08/14/2017 1524 | MH |
| Nickel | 0.023 | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Selenium | 0.0018 | 0.00025 | 0.0025 | E4 | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/14/2017 1406 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 08/10/2017 1640 | 08/16/2017 1243 | MH |
| CVAA Dissolved Mercury-E 245.1 | | | | | | | | | |
| Mercury | ND | 0.000094 | 0.0010 | E8 | mg/L | 1 | 08/11/2017 1245 | 08/11/2017 1740 | MH |
| ICP Total Metals-E200.7 (4.4) | | | | | | | | | |
| Calcium | 240 | | 4.0 | | mg/L | 1 | 08/09/2017 1155 | 08/10/2017 1542 | MH |
| Iron | ND | | 0.30 | | mg/L | 1 | 08/09/2017 1155 | 08/10/2017 1543 | MH |
| Magnesium | 220 | | 3.0 | | mg/L | 1 | 08/09/2017 1155 | 08/10/2017 1542 | MH |
| Zinc | 0.86 | | 0.040 | | mg/L | 1 | 08/09/2017 1155 | 08/10/2017 1543 | MH |
| ICP/MS Total Metals-E200.8 (5.4) | | | | | | | | | |
| Antimony | ND | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Arsenic | ND | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Lab Sample ID: 17H0077-01

Client Sample ID: Outfall 2
Collection Date/Time: 08/01/2017 0811
Matrix: Storm Water

| Analyses | Result | MDL | PQL | Qual | Units | DF | Prep Date | Analysis Date | Analyst |
|--|---------|----------|---------|------|-------|----|-----------------|-----------------|---------|
| Beryllium | ND | | 0.00025 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Cadmium | 0.0036 | | 0.00025 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Chromium | 0.0014 | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Copper | 0.0038 | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Lead | 0.00054 | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Manganese | 1.9 | | 0.0025 | | mg/L | 10 | 08/04/2017 1210 | 08/08/2017 1349 | MH |
| Nickel | 0.018 | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Selenium | 0.0027 | | 0.0025 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Silver | ND | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| Thallium | ND | | 0.00050 | | mg/L | 1 | 08/04/2017 1210 | 08/08/2017 1240 | MH |
| CVAA Total Mercury-E245.1 | | | | | | | | | |
| Mercury | ND | 0.000079 | 0.0010 | E8 | mg/L | 1 | 08/09/2017 1215 | 08/09/2017 1638 | MH |
| Total Suspended Solids (Residue, Non-Filterable)-SM2540 D | | | | | | | | | |
| Total Suspended Solids | ND | | 10 | | mg/L | 1 | 08/02/2017 1210 | 08/04/2017 1210 | LH |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|-------------------------------------|--------|-----------------|-------|-------------|---|-----------|-------------|---------|-----------|------|
| Batch 1708081 - E200.8 (5.4) | | | | | | | | | | |
| Blank (1708081-BLK1) | | | | | | | | | | |
| | | | | | Prepared: 08/04/2017 Analyzed: 08/08/2017 | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1708081-BS1) | | | | | | | | | | |
| | | | | | Prepared: 08/04/2017 Analyzed: 08/08/2017 | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Arsenic | 0.047 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | | 95 | 85-115 | | | |
| Chromium | 0.046 | 0.00050 | mg/L | 0.05000 | | 92 | 85-115 | | | |
| Copper | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Lead | 0.048 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | | | |
| Manganese | 0.045 | 0.00025 | mg/L | 0.05000 | | 90 | 85-115 | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | | 93 | 85-115 | | | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 93 | 85-115 | | | |
| Silver | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| Thallium | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | | | |
| LCS Dup (1708081-BSD1) | | | | | | | | | | |
| | | | | | Prepared: 08/04/2017 Analyzed: 08/08/2017 | | | | | |
| Antimony | 0.049 | 0.00050 | mg/L | 0.05000 | | 98 | 85-115 | 0.3 | 20 | |
| Arsenic | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 0.4 | 20 | |
| Beryllium | 0.047 | 0.00025 | mg/L | 0.05000 | | 94 | 85-115 | 1 | 20 | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | | 96 | 85-115 | 1 | 20 | |
| Chromium | 0.044 | 0.00050 | mg/L | 0.05000 | | 89 | 85-115 | 4 | 20 | |
| Copper | 0.051 | 0.00050 | mg/L | 0.05000 | | 102 | 85-115 | 5 | 20 | |
| Lead | 0.047 | 0.00050 | mg/L | 0.05000 | | 95 | 85-115 | 2 | 20 | |
| Manganese | 0.044 | 0.00025 | mg/L | 0.05000 | | 87 | 85-115 | 3 | 20 | |
| Nickel | 0.048 | 0.00050 | mg/L | 0.05000 | | 96 | 85-115 | 3 | 20 | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | | 93 | 85-115 | 0.2 | 20 | |
| Silver | 0.049 | 0.00050 | mg/L | 0.05000 | | 97 | 85-115 | 2 | 20 | |
| Thallium | 0.047 | 0.00050 | mg/L | 0.05000 | | 94 | 85-115 | 3 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--|--------|---|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1708081 - E200.8 (5.4) | | | | | | | | | | |
| Matrix Spike (1708081-MS1) | | Source: 17H0179-01 | | | Prepared: 08/04/2017 Analyzed: 08/08/2017 | | | | | |
| Antimony | 0.047 | 0.00050 | mg/L | 0.05000 | 0.00011 | 93 | 70-130 | | | |
| Arsenic | 0.073 | 0.00050 | mg/L | 0.05000 | 0.026 | 94 | 70-130 | | | |
| Beryllium | 0.047 | 0.00025 | mg/L | 0.05000 | 0.000034 | 93 | 70-130 | | | |
| Cadmium | 0.048 | 0.00025 | mg/L | 0.05000 | ND | 95 | 70-130 | | | |
| Chromium | 0.061 | 0.00050 | mg/L | 0.05000 | 0.0021 | 119 | 70-130 | | | |
| Copper | 0.060 | 0.00050 | mg/L | 0.05000 | 0.015 | 90 | 70-130 | | | |
| Lead | 0.052 | 0.00050 | mg/L | 0.05000 | 0.0018 | 101 | 70-130 | | | |
| Manganese | 0.15 | 0.00025 | mg/L | 0.05000 | 0.10 | 104 | 70-130 | | | |
| Nickel | 0.059 | 0.00050 | mg/L | 0.05000 | 0.0012 | 116 | 70-130 | | | |
| Selenium | 0.23 | 0.0025 | mg/L | 0.2500 | 0.00094 | 92 | 70-130 | | | |
| Silver | 0.044 | 0.00050 | mg/L | 0.05000 | 0.000029 | 88 | 70-130 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | 0.000073 | 101 | 70-130 | | | |
| Batch 1708120 - E245.1 | | | | | | | | | | |
| Blank (1708120-BLK1) | | Prepared & Analyzed: 08/09/2017 | | | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708120-BS1) | | Prepared & Analyzed: 08/09/2017 | | | | | | | | |
| Mercury | 0.0061 | 0.0010 | mg/L | 0.005000 | | 121 | 85-115 | | | L5 |
| LCS Dup (1708120-BSD1) | | Prepared & Analyzed: 08/09/2017 | | | | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | | 106 | 85-115 | 13 | | 20 |
| Matrix Spike (1708120-MS1) | | Source: 17G0815-01 | | | Prepared & Analyzed: 08/09/2017 | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 108 | 85-115 | | | |
| Matrix Spike (1708120-MS2) | | Source: 17G0816-01 | | | Prepared & Analyzed: 08/09/2017 | | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | | | |
| Matrix Spike Dup (1708120-MSD1) | | Source: 17G0815-01 | | | Prepared & Analyzed: 08/09/2017 | | | | | |
| Mercury | 0.0052 | 0.0010 | mg/L | 0.005000 | ND | 103 | 85-115 | 4 | | 20 |
| Matrix Spike Dup (1708120-MSD2) | | Source: 17G0816-01 | | | Prepared & Analyzed: 08/09/2017 | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | ND | 108 | 85-115 | 2 | | 20 |
| Batch 1708132 - E200.7 (4.4) | | | | | | | | | | |
| Blank (1708132-BLK1) | | Prepared: 08/09/2017 Analyzed: 08/10/2017 | | | | | | | | |
| Calcium | ND | 4.0 | mg/L | | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Magnesium | ND | 3.0 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1708132-BS1) | | Prepared: 08/09/2017 Analyzed: 08/10/2017 | | | | | | | | |
| Calcium | 10 | 4.0 | mg/L | 10.00 | | 100 | 85-115 | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 102 | 85-115 | | | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 100 | 85-115 | | | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 97 | 85-115 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--|--------|-----------------|-------|---|---------------|---|-------------|---------|-----------|------|
| Batch 1708132 - E200.7 (4.4) | | | | | | | | | | |
| LCS Dup (1708132-BSD1) | | | | Prepared: 08/09/2017 Analyzed: 08/10/2017 | | | | | | |
| Calcium | 11 | 4.0 | mg/L | 10.00 | | 112 | 85-115 | 11 | 20 | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | | 104 | 85-115 | 2 | 20 | |
| Magnesium | 10 | 3.0 | mg/L | 10.00 | | 103 | 85-115 | 3 | 20 | |
| Zinc | 0.50 | 0.040 | mg/L | 0.5000 | | 99 | 85-115 | 3 | 20 | |
| Matrix Spike (1708132-MS1) | | | | Source: 17G0806-02 | | Prepared: 08/09/2017 Analyzed: 08/10/2017 | | | | |
| Calcium | 9.9 | 4.0 | mg/L | 10.00 | ND | 99 | 70-130 | | | |
| Iron | 1.0 | 0.30 | mg/L | 1.000 | ND | 101 | 70-130 | | | |
| Magnesium | 9.9 | 3.0 | mg/L | 10.00 | ND | 99 | 70-130 | | | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | ND | 95 | 70-130 | | | |
| Matrix Spike (1708132-MS3) | | | | Source: 17H0195-02 | | Prepared: 08/09/2017 Analyzed: 08/10/2017 | | | | |
| Calcium | 190 | 4.0 | mg/L | 10.00 | 180 | 63 | 70-130 | | | M3 |
| Iron | 1.5 | 0.30 | mg/L | 1.000 | 0.60 | 92 | 70-130 | | | |
| Magnesium | 49 | 3.0 | mg/L | 10.00 | 40 | 91 | 70-130 | | | |
| Zinc | 0.71 | 0.040 | mg/L | 0.5000 | 0.21 | 99 | 70-130 | | | |
| Batch 1708162 - E 245.1 | | | | | | | | | | |
| Blank (1708162-BLK1) | | | | Prepared & Analyzed: 08/11/2017 | | | | | | |
| Mercury | ND | 0.0010 | mg/L | | | | | | | |
| LCS (1708162-BS1) | | | | Prepared & Analyzed: 08/11/2017 | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 108 | 85-115 | | | |
| LCS Dup (1708162-BSD1) | | | | Prepared & Analyzed: 08/11/2017 | | | | | | |
| Mercury | 0.0054 | 0.0010 | mg/L | 0.005000 | | 108 | 85-115 | 0.8 | 20 | |
| Matrix Spike (1708162-MS1) | | | | Source: 17H0162-01 | | Prepared & Analyzed: 08/11/2017 | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | | | |
| Matrix Spike Dup (1708162-MSD1) | | | | Source: 17H0162-01 | | Prepared & Analyzed: 08/11/2017 | | | | |
| Mercury | 0.0053 | 0.0010 | mg/L | 0.005000 | ND | 106 | 85-115 | 0.3 | 20 | |
| Batch 1708169 - E 200.7 (4.4) | | | | | | | | | | |
| Blank (1708169-BLK1) | | | | Prepared: 08/14/2017 Analyzed: 08/16/2017 | | | | | | |
| Iron | ND | 0.30 | mg/L | | | | | | | |
| Zinc | ND | 0.040 | mg/L | | | | | | | |
| LCS (1708169-BS1) | | | | Prepared: 08/14/2017 Analyzed: 08/16/2017 | | | | | | |
| Iron | 0.95 | 0.30 | mg/L | 1.000 | | 95 | 85-115 | | | |
| Zinc | 0.46 | 0.040 | mg/L | 0.5000 | | 93 | 85-115 | | | |
| LCS Dup (1708169-BSD1) | | | | Prepared: 08/14/2017 Analyzed: 08/16/2017 | | | | | | |
| Iron | 0.95 | 0.30 | mg/L | 1.000 | | 95 | 85-115 | 0.4 | 20 | |
| Zinc | 0.48 | 0.040 | mg/L | 0.5000 | | 95 | 85-115 | 3 | 20 | |
| Matrix Spike (1708169-MS1) | | | | Source: 17H0077-01 | | Prepared: 08/14/2017 Analyzed: 08/16/2017 | | | | |
| Iron | 0.95 | 0.30 | mg/L | 1.000 | ND | 95 | 70-130 | | | |
| Zinc | 1.3 | 0.040 | mg/L | 0.5000 | 0.81 | 95 | 70-130 | | | |
| Batch 1708171 - E 200.8 (5.4) | | | | | | | | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC %REC | %REC Limits | RPD RPD | RPD Limit | Qual |
|--------------------------------------|--------|-----------------|-------|-------------|---------------|-----------|-------------|---------|-----------|------|
| Batch 1708171 - E 200.8 (5.4) | | | | | | | | | | |
| Blank (1708171-BLK1) | | | | | | | | | | |
| Prepared & Analyzed: 08/14/2017 | | | | | | | | | | |
| Antimony | ND | 0.00050 | mg/L | | | | | | | |
| Arsenic | ND | 0.00050 | mg/L | | | | | | | |
| Beryllium | ND | 0.00025 | mg/L | | | | | | | |
| Cadmium | ND | 0.00025 | mg/L | | | | | | | |
| Chromium | ND | 0.00050 | mg/L | | | | | | | |
| Copper | ND | 0.00050 | mg/L | | | | | | | |
| Lead | ND | 0.00050 | mg/L | | | | | | | |
| Manganese | ND | 0.00025 | mg/L | | | | | | | |
| Nickel | ND | 0.00050 | mg/L | | | | | | | |
| Selenium | ND | 0.0025 | mg/L | | | | | | | |
| Silver | ND | 0.00050 | mg/L | | | | | | | |
| Thallium | ND | 0.00050 | mg/L | | | | | | | |
| LCS (1708171-BS1) | | | | | | | | | | |
| Prepared & Analyzed: 08/14/2017 | | | | | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Cadmium | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Chromium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Lead | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Manganese | 0.050 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | | | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 102 | 85-115 | | | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | | | |
| Thallium | 0.050 | 0.00050 | mg/L | 0.05000 | | 100 | 85-115 | | | |
| LCS Dup (1708171-BSD1) | | | | | | | | | | |
| Prepared & Analyzed: 08/14/2017 | | | | | | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.2 | 20 | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.03 | 20 | |
| Beryllium | 0.050 | 0.00025 | mg/L | 0.05000 | | 100 | 85-115 | 0.5 | 20 | |
| Cadmium | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.5 | 20 | |
| Chromium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Copper | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 0.04 | 20 | |
| Lead | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Manganese | 0.051 | 0.00025 | mg/L | 0.05000 | | 101 | 85-115 | 0.6 | 20 | |
| Nickel | 0.050 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |
| Selenium | 0.25 | 0.0025 | mg/L | 0.2500 | | 102 | 85-115 | 0.2 | 20 | |
| Silver | 0.050 | 0.00050 | mg/L | 0.05000 | | 99 | 85-115 | 0.4 | 20 | |
| Thallium | 0.051 | 0.00050 | mg/L | 0.05000 | | 101 | 85-115 | 1 | 20 | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|--------------------------------------|--------|---------------------------|-------|-------------|---------------------------------|------|-------------|-----|-----------|------|
| Batch 1708171 - E 200.8 (5.4) | | | | | | | | | | |
| Matrix Spike (1708171-MS1) | | Source: 17H0162-01 | | | Prepared & Analyzed: 08/14/2017 | | | | | |
| Antimony | 0.050 | 0.00050 | mg/L | 0.05000 | 0.00015 | 99 | 70-130 | | | |
| Arsenic | 0.051 | 0.00050 | mg/L | 0.05000 | 0.00051 | 102 | 70-130 | | | |
| Beryllium | 0.046 | 0.00025 | mg/L | 0.05000 | 0.000019 | 91 | 70-130 | | | |
| Cadmium | 0.047 | 0.00025 | mg/L | 0.05000 | ND | 93 | 70-130 | | | |
| Chromium | 0.048 | 0.00050 | mg/L | 0.05000 | 0.000089 | 95 | 70-130 | | | |
| Copper | 0.044 | 0.00050 | mg/L | 0.05000 | 0.00081 | 86 | 70-130 | | | |
| Lead | 0.052 | 0.00050 | mg/L | 0.05000 | 0.00019 | 103 | 70-130 | | | |
| Manganese | 0.18 | 0.00025 | mg/L | 0.05000 | 0.12 | 107 | 70-130 | | | |
| Nickel | 0.046 | 0.00050 | mg/L | 0.05000 | 0.0017 | 89 | 70-130 | | | |
| Selenium | 0.27 | 0.0025 | mg/L | 0.2500 | 0.0025 | 105 | 70-130 | | | |
| Silver | 0.039 | 0.00050 | mg/L | 0.05000 | ND | 78 | 70-130 | | | |
| Thallium | 0.052 | 0.00050 | mg/L | 0.05000 | ND | 103 | 70-130 | | | |

Client: Arizona Minerals Inc.
Project: Storm Water
Work Order: 17H0077
Date Received: 08/01/2017

QC Summary

| Analyte | Result | Reporting Limit | Units | Spike Level | Source Result | %REC | %REC Limits | RPD | RPD Limit | Qual |
|---------------------------------|--------|---------------------------|-------|-------------|---|------|-------------|-----|-----------|------|
| Batch 1708021 - SM2540 D | | | | | | | | | | |
| Duplicate (1708021-DUP1) | | Source: 17G0691-01 | | | Prepared: 08/02/2017 Analyzed: 08/04/2017 | | | | | |
| Total Suspended Solids | 180 | 10 | mg/L | | 180 | | | 2 | 5 | |
| Duplicate (1708021-DUP2) | | Source: 17H0078-01 | | | Prepared: 08/02/2017 Analyzed: 08/04/2017 | | | | | |
| Total Suspended Solids | 430 | 10 | mg/L | | 420 | | | 3 | 5 | |

| Stormwater Sampling Parameters | | | | | |
|--|--------|-------|-----------|-------------------|----------|
| Analyte | ICP/MS | Total | Dissolved | Analytical Method | MDL |
| pH ¹ | Field | | | | |
| Hardness (CaCO ₃ ; calc. from Ca, Mg) | | X | | E200.7 | |
| TSS | | X | | SM2540 | |
| Antimony | X | X | X | E200.8 | 0.000029 |
| Arsenic | X | X | X | E200.8 | 0.000034 |
| Beryllium | X | X | X | E200.8 | 0.000021 |
| Cadmium | X | X | X | E200.8 | 0.000018 |
| Chromium | X | X | X | E200.8 | 0.000036 |
| Copper | X | X | X | E200.8 | 0.000083 |
| Iron | X | X | X | E200.7 | 0.0044 |
| Lead | X | X | X | E200.8 | 0.000031 |
| Manganese | X | X | X | E200.8 | 0.000034 |
| Mercury | X | X | X | E245.1 | 0.000094 |
| Nickel | X | X | X | E200.8 | 0.000083 |
| Selenium | X | X | X | E200.8 | 0.00016 |
| Silver | X | X | X | E200.8 | 0.000029 |
| Thallium | X | X | X | E200.8 | 0.000028 |
| Zinc | X | X | X | E200.7 | 0.0065 |

¹pH, Temp, Cond, and Turbidity are Field Measurements