

**Table 2**  
**Background Soil Sampling Results**  
**DIA Well Plugging Project**  
**City & County of Denver**

| Parameter          | Background 1<br>11/14/2022 | Background 2<br>11/15/2022 | BG -3<br>2/21/2023    | ECMC Table 915-1<br>Standard | Units    |
|--------------------|----------------------------|----------------------------|-----------------------|------------------------------|----------|
| Sample Location    | Background 1               | Background 2               | Background 3          | NA                           | NA       |
| Latitude/Longitude | 39.914356/-104.683935      | 39.903994/-104.709448      | 39.888056/-104.636790 | NA                           | NA       |
| Laboratory ID      | 2211210-01                 | 2211210-02                 | 2302195-02            | NA                           | NA       |
| Depth              | 0-0.67                     | 0-0.17                     | 0-0.5                 | NA                           | feet bgs |
| PID                | -                          | -                          | 0.0                   | NA                           | ppm      |
| Conductivity       | 0.330                      | 0.700                      | 0.191                 | <4                           | mmhos/cm |
| pH                 | <b>5.86</b>                | 6.78                       | 6.33                  | 6-8.3                        | pH units |
| SAR                | 0.17                       | 0.19                       | 0.15                  | <6                           | no units |
| Calcium            | 23.4                       | 74.7                       | 22.6                  | NA                           | mg/L     |
| Magnesium          | 6.45                       | 22.2                       | 5.11                  | NA                           | mg/L     |
| Sodium             | 3.69                       | 7.26                       | 3.01                  | NA                           | mg/L     |
| Arsenic            | <b>1.25</b>                | <b>2.78</b>                | <b>3.70</b>           | 0.68                         | mg/kg    |
| Barium             | 38.2                       | 88.7                       | 82.9                  | 15000                        | mg/kg    |
| Cadmium            | <5.00                      | <5.00                      | <5.00                 | 71                           | mg/kg    |
| Chromium (VI)      | <0.250                     | <0.250                     | <0.250                | 0.3                          | mg/kg    |
| Total Chromium     | <5.00                      | 12.5                       | 10.5                  | NA                           | mg/kg    |
| Copper             | <5.00                      | 7.50                       | 10.0                  | 3100                         | mg/kg    |
| Lead               | <10.0                      | <10.0                      | <10.0                 | 400                          | mg/kg    |
| Nickel             | <5.00                      | 6.58                       | <5.00                 | 1500                         | mg/kg    |
| Selenium           | <20.0                      | <20.0                      | <20.0                 | 390                          | mg/kg    |
| Silver             | <1.00                      | <1.00                      | <1.00                 | 390                          | mg/kg    |
| Zinc               | 17.5                       | 35.6                       | 30.3                  | 23000                        | mg/kg    |
| Boron              | <1.20                      | <1.20                      | <1.20                 | 2                            | mg/L     |

**Notes:**

PID - Photoionization Detector

SAR - Sodium Adsorption Ratio

NA - Not Applicable

bgs - below ground surface

mmhos/cm - millihos per centimeter

mg/L - milligrams per liter

mg/kg - milligrams per kilogram

ECMC - Colorado Energy and Carbon Management Commission

ppm - parts per million

**Bold** values exceed ECMC Standard

**Table 2 (continued)**  
**Background Soil Sampling Results**  
**DIA Well Plugging Project**  
**City & County of Denver**

| Parameter          | BG -4<br>2/21/2023    | BG-5<br>3/21/2023     | BG-6<br>3/21/2023     | ECMC Table 915-1<br>Standard | Units    |
|--------------------|-----------------------|-----------------------|-----------------------|------------------------------|----------|
| Sample Location    | Background 4          | Background 5          | Background 6          | NA                           | NA       |
| Latitude/Longitude | 39.864922/-104.620937 | 39.890570/-104.602344 | 39.882480/-104.663308 | NA                           | NA       |
| Laboratory ID      | 2302195-01            | 2303222-01            | 2303222-02            | NA                           | NA       |
| Depth              | 0-1                   | 0-0.83                | 0-1                   | NA                           | feet bgs |
| PID                | 0.0                   | 0.0                   | 0.0                   | NA                           | ppm      |
| Conductivity       | 1.650                 | 0.176                 | 0.682                 | <4                           | mmhos/cm |
| pH                 | <b>5.25</b>           | 6.47                  | <b>5.56</b>           | 6-8.3                        | pH units |
| SAR                | 0.09                  | 0.18                  | 0.17                  | <6                           | no units |
| Calcium            | 145                   | 22.5                  | 57.2                  | NA                           | mg/L     |
| Magnesium          | 32.2                  | 5.93                  | 25.1                  | NA                           | mg/L     |
| Sodium             | 4.74                  | 3.69                  | 6.11                  | NA                           | mg/L     |
| Arsenic            | <b>1.89</b>           | <b>4.21</b>           | <b>4.93</b>           | 0.68                         | mg/kg    |
| Barium             | 72.7                  | 92.8                  | 144                   | 15000                        | mg/kg    |
| Cadmium            | <5.00                 | <5.00                 | <5.00                 | 71                           | mg/kg    |
| Chromium (VI)      | <0.250                | <0.250                | <0.250                | 0.3                          | mg/kg    |
| Total Chromium     | 10.7                  | 12.7                  | 20.2                  | NA                           | mg/kg    |
| Copper             | 11.3                  | 11.7                  | 24.7                  | 3100                         | mg/kg    |
| Lead               | <10.0                 | <10.0                 | 11.0                  | 400                          | mg/kg    |
| Nickel             | <5.00                 | 8.02                  | 12.9                  | 1500                         | mg/kg    |
| Selenium           | <20.0                 | <20.0                 | <20.0                 | 390                          | mg/kg    |
| Silver             | <1.00                 | <1.00                 | <1.00                 | 390                          | mg/kg    |
| Zinc               | 35.6                  | 35.7                  | 56.6                  | 23000                        | mg/kg    |
| Boron              | <1.20                 | <1.20                 | <1.20                 | 2                            | mg/L     |

**Notes:**

PID - Photoionization Detector

SAR - Sodium Adsorption Ratio

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