

### Hit Summary Sheet SW-846

**SDG No.:** P4663

**Order ID:** P4663

**Client:** Union Paving & Construction Company

**Project ID:** Rt. 10 Whippany

| Sample ID                                    | Client ID                     | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|----------------------------------------------|-------------------------------|--------|-----------|---------------|---|--------|-------|-------|
| <b>Client ID : TENNANT-PAD-2-3-STOCKPILE</b> |                               |        |           |               |   |        |       |       |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Aluminum  | 10400         |   | 2.49   | 5.16  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Antimony  | 0.18          | J | 0.16   | 2.58  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Arsenic   | 1.98          |   | 0.30   | 1.03  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Barium    | 52.9          |   | 0.66   | 5.16  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Beryllium | 0.99          |   | 0.012  | 0.31  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Cadmium   | 0.59          |   | 0.017  | 0.31  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Calcium   | 2390          |   | 2.89   | 103   | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Chromium  | 16.2          |   | 0.056  | 0.52  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Cobalt    | 16.2          |   | 0.060  | 1.55  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Copper    | 21.7          |   | 0.49   | 1.03  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Iron      | 21200         |   | 2.78   | 5.16  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Lead      | 12.5          |   | 0.16   | 0.62  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Magnesium | 2290          |   | 3.54   | 103   | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Manganese | 366           |   | 0.073  | 1.03  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Mercury   | 0.011         | J | 0.0060 | 0.014 | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Nickel    | 15.6          |   | 0.093  | 2.07  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Potassium | 635           |   | 29.6   | 103   | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Silver    | 0.28          | J | 0.054  | 0.52  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Sodium    | 361           |   | 37.3   | 103   | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Vanadium  | 40.0          |   | 0.28   | 2.07  | mg/Kg |
| P4663-02                                     | TENNANT-PAD-2-3-STOCKPIL SOIL |        | Zinc      | 46.6          |   | 0.11   | 2.07  | mg/Kg |
| <b>Client ID : RES-BUILDING-PAD-NO-11</b>    |                               |        |           |               |   |        |       |       |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Aluminum  | 9640          |   | 2.40   | 4.98  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Antimony  | 0.34          | J | 0.15   | 2.49  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Arsenic   | 1.32          |   | 0.29   | 1.00  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Barium    | 51.4          |   | 0.64   | 4.98  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Beryllium | 0.86          |   | 0.012  | 0.30  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Cadmium   | 0.43          |   | 0.016  | 0.30  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Calcium   | 2070          |   | 2.79   | 99.6  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Chromium  | 17.5          |   | 0.054  | 0.50  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Cobalt    | 12.4          |   | 0.058  | 1.49  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Copper    | 20.3          |   | 0.47   | 1.00  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Iron      | 20200         |   | 2.68   | 4.98  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Lead      | 15.4          |   | 0.15   | 0.60  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Magnesium | 2450          |   | 3.42   | 99.6  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Manganese | 355           |   | 0.071  | 1.00  | mg/Kg |
| P4663-04                                     | RES-BUILDING-PAD-NO-11        | SOIL   | Mercury   | 0.020         |   | 0.0070 | 0.015 | mg/Kg |

**Hit Summary Sheet**  
**SW-846**

**SDG No.:** P4663

**Order ID:** P4663

**Client:** Union Paving & Construction Company

**Project ID:** Rt. 10 Whippany

| Sample ID                                | Client ID              | Matrix | Parameter | Concentration | C | MDL    | RDL   | Units |
|------------------------------------------|------------------------|--------|-----------|---------------|---|--------|-------|-------|
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Nickel    | 16.1          |   | 0.090  | 1.99  | mg/Kg |
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Potassium | 563           |   | 28.6   | 99.6  | mg/Kg |
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Silver    | 0.38          | J | 0.052  | 0.50  | mg/Kg |
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Sodium    | 327           |   | 36.0   | 99.6  | mg/Kg |
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Vanadium  | 39.7          |   | 0.27   | 1.99  | mg/Kg |
| P4663-04                                 | RES-BUILDING-PAD-NO-11 | SOIL   | Zinc      | 50.5          |   | 0.11   | 1.99  | mg/Kg |
| <b>Client ID : RES-BUILDING-PAD-NO-3</b> |                        |        |           |               |   |        |       |       |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Aluminum  | 7550          |   | 2.12   | 4.40  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Antimony  | 0.23          | J | 0.13   | 2.20  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Arsenic   | 1.22          |   | 0.26   | 0.88  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Barium    | 46.5          |   | 0.56   | 4.40  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Beryllium | 0.71          |   | 0.011  | 0.26  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Cadmium   | 0.53          |   | 0.014  | 0.26  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Calcium   | 4260          |   | 2.47   | 88.1  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Chromium  | 12.9          |   | 0.048  | 0.44  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Cobalt    | 12.9          |   | 0.051  | 1.32  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Copper    | 24.6          |   | 0.41   | 0.88  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Iron      | 17600         |   | 2.37   | 4.40  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Lead      | 8.31          |   | 0.13   | 0.53  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Magnesium | 3180          |   | 3.02   | 88.1  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Manganese | 363           |   | 0.063  | 0.88  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Mercury   | 0.016         |   | 0.0060 | 0.013 | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Nickel    | 15.8          |   | 0.079  | 1.76  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Potassium | 673           |   | 25.3   | 88.1  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Silver    | 0.32          | J | 0.046  | 0.44  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Sodium    | 265           |   | 31.8   | 88.1  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Vanadium  | 30.5          |   | 0.24   | 1.76  | mg/Kg |
| P4663-06                                 | RES-BUILDING-PAD-NO-3  | SOIL   | Zinc      | 45.7          |   | 0.097  | 1.76  | mg/Kg |
| <b>Client ID : RES-BUILDING-PAD-NO-2</b> |                        |        |           |               |   |        |       |       |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Aluminum  | 7960          |   | 2.18   | 4.53  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Antimony  | 0.14          | J | 0.14   | 2.26  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Arsenic   | 1.15          |   | 0.26   | 0.91  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Barium    | 46.8          |   | 0.58   | 4.53  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Beryllium | 0.81          |   | 0.011  | 0.27  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Cadmium   | 0.40          |   | 0.014  | 0.27  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Calcium   | 1760          |   | 2.53   | 90.5  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Chromium  | 13.8          |   | 0.049  | 0.45  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Cobalt    | 11.7          |   | 0.053  | 1.36  | mg/Kg |
| P4663-08                                 | RES-BUILDING-PAD-NO-2  | SOIL   | Copper    | 20.0          |   | 0.43   | 0.91  | mg/Kg |

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**SW-846**

**SDG No.:** P4663

**Order ID:** P4663

**Client:** Union Paving & Construction Company

**Project ID:** Rt. 10 Whippany

| Sample ID | Client ID             | Matrix | Parameter | Concentration | C | MDL   | RDL  | Units |
|-----------|-----------------------|--------|-----------|---------------|---|-------|------|-------|
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Iron      | 18000         |   | 2.43  | 4.53 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Lead      | 7.79          |   | 0.14  | 0.54 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Magnesium | 2290          |   | 3.10  | 90.5 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Manganese | 361           |   | 0.064 | 0.91 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Nickel    | 14.8          |   | 0.081 | 1.81 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Potassium | 556           |   | 26.0  | 90.5 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Silver    | 0.34          | J | 0.047 | 0.45 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Sodium    | 161           |   | 32.7  | 90.5 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Vanadium  | 32.5          |   | 0.24  | 1.81 | mg/Kg |
| P4663-08  | RES-BUILDING-PAD-NO-2 | SOIL   | Zinc      | 41.4          |   | 0.10  | 1.81 | mg/Kg |



# SAMPLE DATA

## Report of Analysis

|                   |                                     |                 |          |
|-------------------|-------------------------------------|-----------------|----------|
| Client:           | Union Paving & Construction Company | Date Collected: | 10/31/24 |
| Project:          | Rt. 10 Whippany                     | Date Received:  | 10/31/24 |
| Client Sample ID: | TENNANT-PAD-2-3-STOCKPILE           | SDG No.:        | P4663    |
| Lab Sample ID:    | P4663-02                            | Matrix:         | SOIL     |
| Level (low/med):  | low                                 | % Solid:        | 90.9     |

| Cas       | Parameter | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 10400 |      | 1  | 2.49   | 5.16       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-36-0 | Antimony  | 0.18  | JN   | 1  | 0.16   | 2.58       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-38-2 | Arsenic   | 1.98  |      | 1  | 0.30   | 1.03       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-39-3 | Barium    | 52.9  |      | 1  | 0.66   | 5.16       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-41-7 | Beryllium | 0.99  |      | 1  | 0.012  | 0.31       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-43-9 | Cadmium   | 0.59  |      | 1  | 0.017  | 0.31       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-70-2 | Calcium   | 2390  |      | 1  | 2.89   | 103        | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-47-3 | Chromium  | 16.2  |      | 1  | 0.056  | 0.52       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-48-4 | Cobalt    | 16.2  |      | 1  | 0.060  | 1.55       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-50-8 | Copper    | 21.7  | N    | 1  | 0.49   | 1.03       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7439-89-6 | Iron      | 21200 |      | 1  | 2.78   | 5.16       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7439-92-1 | Lead      | 12.5  |      | 1  | 0.16   | 0.62       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7439-95-4 | Magnesium | 2290  |      | 1  | 3.54   | 103        | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7439-96-5 | Manganese | 366   |      | 1  | 0.073  | 1.03       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7439-97-6 | Mercury   | 0.011 | J    | 1  | 0.0060 | 0.014      | mg/Kg             | 11/04/24 09:45 | 11/04/24 15:34 | SW7471B  |           |
| 7440-02-0 | Nickel    | 15.6  |      | 1  | 0.093  | 2.07       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-09-7 | Potassium | 635   |      | 1  | 29.6   | 103        | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7782-49-2 | Selenium  | 0.34  | U    | 1  | 0.34   | 1.03       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-22-4 | Silver    | 0.28  | J    | 1  | 0.054  | 0.52       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-23-5 | Sodium    | 361   | N    | 1  | 37.3   | 103        | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-28-0 | Thallium  | 0.46  | U    | 1  | 0.46   | 2.07       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-62-2 | Vanadium  | 40.0  |      | 1  | 0.28   | 2.07       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |
| 7440-66-6 | Zinc      | 46.6  | N    | 1  | 0.11   | 2.07       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:12 | SW6010   | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | METALS-TAL |                 |            |        |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

|                   |                                     |                 |          |
|-------------------|-------------------------------------|-----------------|----------|
| Client:           | Union Paving & Construction Company | Date Collected: | 10/31/24 |
| Project:          | Rt. 10 Whippany                     | Date Received:  | 10/31/24 |
| Client Sample ID: | RES-BUILDING-PAD-NO-11              | SDG No.:        | P4663    |
| Lab Sample ID:    | P4663-04                            | Matrix:         | SOIL     |
| Level (low/med):  | low                                 | % Solid:        | 91.7     |

| Cas       | Parameter | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 9640  |      | 1  | 2.40   | 4.98       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-36-0 | Antimony  | 0.34  | JN   | 1  | 0.15   | 2.49       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-38-2 | Arsenic   | 1.32  |      | 1  | 0.29   | 1.00       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-39-3 | Barium    | 51.4  |      | 1  | 0.64   | 4.98       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-41-7 | Beryllium | 0.86  |      | 1  | 0.012  | 0.30       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-43-9 | Cadmium   | 0.43  |      | 1  | 0.016  | 0.30       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-70-2 | Calcium   | 2070  |      | 1  | 2.79   | 99.6       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-47-3 | Chromium  | 17.5  |      | 1  | 0.054  | 0.50       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-48-4 | Cobalt    | 12.4  |      | 1  | 0.058  | 1.49       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-50-8 | Copper    | 20.3  | N    | 1  | 0.47   | 1.00       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7439-89-6 | Iron      | 20200 |      | 1  | 2.68   | 4.98       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7439-92-1 | Lead      | 15.4  |      | 1  | 0.15   | 0.60       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7439-95-4 | Magnesium | 2450  |      | 1  | 3.42   | 99.6       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7439-96-5 | Manganese | 355   |      | 1  | 0.071  | 1.00       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7439-97-6 | Mercury   | 0.020 |      | 1  | 0.0070 | 0.015      | mg/Kg             | 11/04/24 09:45 | 11/04/24 14:46 | SW7471B  |           |
| 7440-02-0 | Nickel    | 16.1  |      | 1  | 0.090  | 1.99       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-09-7 | Potassium | 563   |      | 1  | 28.6   | 99.6       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7782-49-2 | Selenium  | 0.33  | U    | 1  | 0.33   | 1.00       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-22-4 | Silver    | 0.38  | J    | 1  | 0.052  | 0.50       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-23-5 | Sodium    | 327   | N    | 1  | 36.0   | 99.6       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-28-0 | Thallium  | 0.44  | U    | 1  | 0.44   | 1.99       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-62-2 | Vanadium  | 39.7  |      | 1  | 0.27   | 1.99       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |
| 7440-66-6 | Zinc      | 50.5  | N    | 1  | 0.11   | 1.99       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:17 | SW6010   | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | METALS-TAL |                 |            |        |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

|                   |                                     |                 |          |
|-------------------|-------------------------------------|-----------------|----------|
| Client:           | Union Paving & Construction Company | Date Collected: | 10/31/24 |
| Project:          | Rt. 10 Whippany                     | Date Received:  | 10/31/24 |
| Client Sample ID: | RES-BUILDING-PAD-NO-3               | SDG No.:        | P4663    |
| Lab Sample ID:    | P4663-06                            | Matrix:         | SOIL     |
| Level (low/med):  | low                                 | % Solid:        | 91.2     |

| Cas       | Parameter | Conc. | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|-------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 7550  |      | 1  | 2.12   | 4.40       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-36-0 | Antimony  | 0.23  | JN   | 1  | 0.13   | 2.20       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-38-2 | Arsenic   | 1.22  |      | 1  | 0.26   | 0.88       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-39-3 | Barium    | 46.5  |      | 1  | 0.56   | 4.40       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-41-7 | Beryllium | 0.71  |      | 1  | 0.011  | 0.26       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-43-9 | Cadmium   | 0.53  |      | 1  | 0.014  | 0.26       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-70-2 | Calcium   | 4260  |      | 1  | 2.47   | 88.1       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-47-3 | Chromium  | 12.9  |      | 1  | 0.048  | 0.44       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-48-4 | Cobalt    | 12.9  |      | 1  | 0.051  | 1.32       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-50-8 | Copper    | 24.6  | N    | 1  | 0.41   | 0.88       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7439-89-6 | Iron      | 17600 |      | 1  | 2.37   | 4.40       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7439-92-1 | Lead      | 8.31  |      | 1  | 0.13   | 0.53       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7439-95-4 | Magnesium | 3180  |      | 1  | 3.02   | 88.1       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7439-96-5 | Manganese | 363   |      | 1  | 0.063  | 0.88       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7439-97-6 | Mercury   | 0.016 |      | 1  | 0.0060 | 0.013      | mg/Kg             | 11/04/24 09:45 | 11/04/24 14:55 | SW7471B  |           |
| 7440-02-0 | Nickel    | 15.8  |      | 1  | 0.079  | 1.76       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-09-7 | Potassium | 673   |      | 1  | 25.3   | 88.1       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7782-49-2 | Selenium  | 0.29  | U    | 1  | 0.29   | 0.88       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-22-4 | Silver    | 0.32  | J    | 1  | 0.046  | 0.44       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-23-5 | Sodium    | 265   | N    | 1  | 31.8   | 88.1       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-28-0 | Thallium  | 0.39  | U    | 1  | 0.39   | 1.76       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-62-2 | Vanadium  | 30.5  |      | 1  | 0.24   | 1.76       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |
| 7440-66-6 | Zinc      | 45.7  | N    | 1  | 0.097  | 1.76       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:21 | SW6010   | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | METALS-TAL |                 |            |        |

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

\* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N =Spiked sample recovery not within control limits

## Report of Analysis

|                   |                                     |                 |          |
|-------------------|-------------------------------------|-----------------|----------|
| Client:           | Union Paving & Construction Company | Date Collected: | 10/31/24 |
| Project:          | Rt. 10 Whippany                     | Date Received:  | 10/31/24 |
| Client Sample ID: | RES-BUILDING-PAD-NO-2               | SDG No.:        | P4663    |
| Lab Sample ID:    | P4663-08                            | Matrix:         | SOIL     |
| Level (low/med):  | low                                 | % Solid:        | 91.3     |

| Cas       | Parameter | Conc.  | Qua. | DF | MDL    | LOQ / CRQL | Units(Dry Weight) | Prep Date      | Date Ana.      | Ana Met. | Prep Met. |
|-----------|-----------|--------|------|----|--------|------------|-------------------|----------------|----------------|----------|-----------|
| 7429-90-5 | Aluminum  | 7960   |      | 1  | 2.18   | 4.53       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-36-0 | Antimony  | 0.14   | JN   | 1  | 0.14   | 2.26       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-38-2 | Arsenic   | 1.15   |      | 1  | 0.26   | 0.91       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-39-3 | Barium    | 46.8   |      | 1  | 0.58   | 4.53       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-41-7 | Beryllium | 0.81   |      | 1  | 0.011  | 0.27       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-43-9 | Cadmium   | 0.40   |      | 1  | 0.014  | 0.27       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-70-2 | Calcium   | 1760   |      | 1  | 2.53   | 90.5       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-47-3 | Chromium  | 13.8   |      | 1  | 0.049  | 0.45       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-48-4 | Cobalt    | 11.7   |      | 1  | 0.053  | 1.36       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-50-8 | Copper    | 20.0   | N    | 1  | 0.43   | 0.91       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7439-89-6 | Iron      | 18000  |      | 1  | 2.43   | 4.53       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7439-92-1 | Lead      | 7.79   |      | 1  | 0.14   | 0.54       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7439-95-4 | Magnesium | 2290   |      | 1  | 3.10   | 90.5       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7439-96-5 | Manganese | 361    |      | 1  | 0.064  | 0.91       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7439-97-6 | Mercury   | 0.0060 | U    | 1  | 0.0060 | 0.014      | mg/Kg             | 11/04/24 09:45 | 11/04/24 14:57 | SW7471B  |           |
| 7440-02-0 | Nickel    | 14.8   |      | 1  | 0.081  | 1.81       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-09-7 | Potassium | 556    |      | 1  | 26.0   | 90.5       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7782-49-2 | Selenium  | 0.30   | U    | 1  | 0.30   | 0.91       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-22-4 | Silver    | 0.34   | J    | 1  | 0.047  | 0.45       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-23-5 | Sodium    | 161    | N    | 1  | 32.7   | 90.5       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-28-0 | Thallium  | 0.40   | U    | 1  | 0.40   | 1.81       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-62-2 | Vanadium  | 32.5   |      | 1  | 0.24   | 1.81       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |
| 7440-66-6 | Zinc      | 41.4   | N    | 1  | 0.10   | 1.81       | mg/Kg             | 11/03/24 15:00 | 11/04/24 20:25 | SW6010   | SW3050    |

|               |            |                 |            |        |
|---------------|------------|-----------------|------------|--------|
| Color Before: | Brown      | Clarity Before: | Texture:   | Medium |
| Color After:  | Yellow     | Clarity After:  | Artifacts: |        |
| Comments:     | METALS-TAL |                 |            |        |

U = Not Detected

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284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

**Metals**

**- 3a -**

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

| Client:   | Union Paving & Construction Company |                |                     |              | SDG No.: | P4663    |                  |                  |               |
|-----------|-------------------------------------|----------------|---------------------|--------------|----------|----------|------------------|------------------|---------------|
| Contract: | UNIO02                              | Lab Code:      | CHEM                | Case No.:    | P4663    | SAS No.: | P4663            |                  |               |
| Sample ID | Analyte                             | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL     | M        | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| ICB68     | Mercury                             | 0.20           | +/-0.20             | U            | 0.20     | CV       | 11/04/2024       | 14:16            | LB133275      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

| Sample ID | Analyte | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|---------------------|--------------|------|----|------------------|------------------|---------------|
| CCB22     | Mercury | 0.20           | +/-0.20             | U            | 0.20 | CV | 11/04/2024       | 14:23            | LB133275      |
| CCB23     | Mercury | 0.20           | +/-0.20             | U            | 0.20 | CV | 11/04/2024       | 14:53            | LB133275      |
| CCB24     | Mercury | 0.20           | +/-0.20             | U            | 0.20 | CV | 11/04/2024       | 15:20            | LB133275      |
| CCB25     | Mercury | 0.20           | +/-0.20             | U            | 0.20 | CV | 11/04/2024       | 15:45            | LB133275      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| ICB01     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 17:47            | LB133296      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 17:47            | LB133296      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 17:47            | LB133296      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 17:47            | LB133296      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 17:47            | LB133296      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB01                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 18:16            | LB133296      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 18:16            | LB133296      |
| CCB02                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:07            | LB133296      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB02                                              | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:07            | LB133296      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:07            | LB133296      |
| CCB03                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:58            | LB133296      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/04/2024       | 19:58            | LB133296      |
| CCB04                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Cadmium               | 0.19                   | +/-6.00               | J            | 6.00 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/04/2024       | 21:11            | LB133296      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/04/2024       | 21:11            | LB133296      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB04     | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Sodium    | 662            | +/-2000             | J            | 2000 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:11            | LB133296      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:11            | LB133296      |
| CCB05     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 21:51            | LB133296      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 21:51            | LB133296      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Cadmium   | 0.19           | +/-6.00             | J            | 6.00 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/04/2024       | 21:51            | LB133296      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Sodium    | 669            | +/-2000             | J            | 2000 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:51            | LB133296      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/04/2024       | 21:51            | LB133296      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| ICB01     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 17:43            | LB133323      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 17:43            | LB133323      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 17:43            | LB133323      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 17:43            | LB133323      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 17:43            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB01     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:27            | LB133323      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:27            | LB133323      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Cadmium   | 0.21           | +/-6.00             | J            | 6.00 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:27            | LB133323      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 18:27            | LB133323      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 18:27            | LB133323      |
| CCB02     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:44            | LB133323      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:44            | LB133323      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/06/2024       | 18:44            | LB133323      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/06/2024       | 18:44            | LB133323      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/06/2024       | 18:44            | LB133323      |



## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB02                                              | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 18:44            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 18:44            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 18:44            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 18:44            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 18:44            | LB133323      |
| CCB03                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Calcium               | 165                    | +/-2000               | J            | 2000 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 19:36            | LB133323      |
|                                                    | Zinc                  | 23.7                   | +/-40.0               | J            | 40.0 | P | 11/06/2024       | 19:36            | LB133323      |
| CCB04                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/06/2024       | 20:26            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB04                                              | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 20:26            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 20:26            | LB133323      |
| CCB05                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 21:17            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 21:17            | LB133323      |
| CCB06                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 22:15            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB06                                              | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 22:15            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 22:15            | LB133323      |
| CCB07                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 23:07            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/06/2024       | 23:07            | LB133323      |
| CCB08                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 00:03            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB08                                              | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 00:03            | LB133323      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 00:03            | LB133323      |
| CCB09                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 00:57            | LB133323      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 00:57            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB09     | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 00:57            | LB133323      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 00:57            | LB133323      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 00:57            | LB133323      |
| CCB10     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 01:53            | LB133323      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 01:53            | LB133323      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 01:53            | LB133323      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 01:53            | LB133323      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 01:53            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| ICB01     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 14:38            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 14:38            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 14:38            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 14:38            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 14:38            | LB133344      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB01     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:05            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:05            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:05            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:05            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:05            | LB133344      |
| CCB02     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:58            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:58            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 15:58            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 15:58            | LB133344      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB02     | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:58            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 15:58            | LB133344      |
| CCB03     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 16:49            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 16:49            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 16:49            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 16:49            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 16:49            | LB133344      |
| CCB04     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 18:04            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 18:04            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 18:04            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 18:04            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 18:04            | LB133344      |



**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB04                                              | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:04            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:04            | LB133344      |
| CCB05                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:37            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 18:37            | LB133344      |
| CCB06                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 19:12            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB06                                              | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 19:12            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 19:12            | LB133344      |
| CCB07                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 20:02            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 20:02            | LB133344      |
| CCB08                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 21:02            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB08                                              | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 21:02            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 21:02            | LB133344      |
| CCB09                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 21:55            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 21:55            | LB133344      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB09     | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 21:55            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 21:55            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 21:55            | LB133344      |
| CCB10     | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 22:56            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 22:56            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 22:56            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/07/2024       | 22:56            | LB133344      |
|           | Aluminum  | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 23:47            | LB133344      |
|           | Antimony  | 50.0           | +/-50.0             | U            | 50.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Arsenic   | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Barium    | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 23:47            | LB133344      |
|           | Beryllium | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Cadmium   | 6.00           | +/-6.00             | U            | 6.00 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Calcium   | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Chromium  | 10.0           | +/-10.0             | U            | 10.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Cobalt    | 30.0           | +/-30.0             | U            | 30.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/07/2024       | 23:47            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/07/2024       | 23:47            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/07/2024       | 23:47            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

| <b>Client:</b> Union Paving & Construction Company |                       | <b>SDG No.:</b> P4663  |                       |              |      |   |                  |                  |               |
|----------------------------------------------------|-----------------------|------------------------|-----------------------|--------------|------|---|------------------|------------------|---------------|
| <b>Contract:</b> UNIO02                            | <b>Lab Code:</b> CHEM | <b>Case No.:</b> P4663 | <b>SAS No.:</b> P4663 |              |      |   |                  |                  |               |
| Sample ID                                          | Analyte               | Result<br>ug/L         | Acceptance<br>Limit   | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
| CCB11                                              | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 23:47            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/07/2024       | 23:47            | LB133344      |
| CCB12                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Copper                | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Iron                  | 100                    | +/-100                | U            | 100  | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Lead                  | 12.0                   | +/-12.0               | U            | 12.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Magnesium             | 2000                   | +/-2000               | U            | 2000 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Manganese             | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Nickel                | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Potassium             | 2000                   | +/-2000               | U            | 2000 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Selenium              | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Silver                | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Sodium                | 2000                   | +/-2000               | U            | 2000 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Thallium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Vanadium              | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/08/2024       | 00:43            | LB133344      |
|                                                    | Zinc                  | 40.0                   | +/-40.0               | U            | 40.0 | P | 11/08/2024       | 00:43            | LB133344      |
| CCB13                                              | Aluminum              | 100                    | +/-100                | U            | 100  | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Antimony              | 50.0                   | +/-50.0               | U            | 50.0 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Arsenic               | 20.0                   | +/-20.0               | U            | 20.0 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Barium                | 100                    | +/-100                | U            | 100  | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Beryllium             | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Cadmium               | 6.00                   | +/-6.00               | U            | 6.00 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Calcium               | 2000                   | +/-2000               | U            | 2000 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Chromium              | 10.0                   | +/-10.0               | U            | 10.0 | P | 11/08/2024       | 01:01            | LB133344      |
|                                                    | Cobalt                | 30.0                   | +/-30.0               | U            | 30.0 | P | 11/08/2024       | 01:01            | LB133344      |

**Metals**

- 3a -

**INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

| Sample ID | Analyte   | Result<br>ug/L | Acceptance<br>Limit | Conc<br>Qual | CRQL | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|---------------------|--------------|------|---|------------------|------------------|---------------|
| CCB13     | Copper    | 20.0           | +/-20.0             | U            | 20.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Iron      | 100            | +/-100              | U            | 100  | P | 11/08/2024       | 01:01            | LB133344      |
|           | Lead      | 12.0           | +/-12.0             | U            | 12.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Magnesium | 2000           | +/-2000             | U            | 2000 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Manganese | 20.0           | +/-20.0             | U            | 20.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Nickel    | 40.0           | +/-40.0             | U            | 40.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Potassium | 2000           | +/-2000             | U            | 2000 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Selenium  | 20.0           | +/-20.0             | U            | 20.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Silver    | 10.0           | +/-10.0             | U            | 10.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Sodium    | 2000           | +/-2000             | U            | 2000 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Thallium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Vanadium  | 40.0           | +/-40.0             | U            | 40.0 | P | 11/08/2024       | 01:01            | LB133344      |
|           | Zinc      | 40.0           | +/-40.0             | U            | 40.0 | P | 11/08/2024       | 01:01            | LB133344      |

**Metals**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Instrument:** CV1

| Sample ID         | Analyte | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual         | CRQL<br>mg/Kg   | M  | Analysis<br>Date  | Analysis<br>Time  | Run      |
|-------------------|---------|-------------------|---------------------|----------------------|-----------------|----|-------------------|-------------------|----------|
| <b>PB164668BL</b> |         | <b>SOLID</b>      |                     | <b>Batch Number:</b> | <b>PB164668</b> |    | <b>Prep Date:</b> | <b>11/04/2024</b> |          |
|                   | Mercury | 0.013             | <0.013              | U                    | 0.013           | CV | 11/04/2024        | 14:32             | LB133275 |

**Metals**  
**- 3b -**  
**PREPARATION BLANK SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Instrument:** P4

| Sample ID         | Analyte      | Result<br>(mg/Kg) | Acceptance<br>Limit | Conc<br>Qual         | CRQL<br>mg/Kg   | M | Analysis<br>Date  | Analysis<br>Time  | Run      |
|-------------------|--------------|-------------------|---------------------|----------------------|-----------------|---|-------------------|-------------------|----------|
| <b>PB164634BL</b> | <b>SOLID</b> |                   |                     | <b>Batch Number:</b> | <b>PB164634</b> |   | <b>Prep Date:</b> | <b>11/03/2024</b> |          |
|                   | Aluminum     | 4.76              | <4.76               | U                    | 4.76            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Antimony     | 2.38              | <2.38               | U                    | 2.38            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Arsenic      | 0.95              | <0.95               | U                    | 0.95            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Barium       | 4.76              | <4.76               | U                    | 4.76            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Beryllium    | 0.29              | <0.29               | U                    | 0.29            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Cadmium      | 0.29              | <0.29               | U                    | 0.29            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Calcium      | 95.2              | <95.2               | U                    | 95.2            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Chromium     | 0.48              | <0.48               | U                    | 0.48            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Cobalt       | 1.43              | <1.43               | U                    | 1.43            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Copper       | 0.95              | <0.95               | U                    | 0.95            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Iron         | 4.76              | <4.76               | U                    | 4.76            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Lead         | 0.57              | <0.57               | U                    | 0.57            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Magnesium    | 95.2              | <95.2               | U                    | 95.2            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Manganese    | 0.95              | <0.95               | U                    | 0.95            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Nickel       | 1.90              | <1.90               | U                    | 1.90            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Potassium    | 95.2              | <95.2               | U                    | 95.2            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Selenium     | 0.95              | <0.95               | U                    | 0.95            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Silver       | 0.48              | <0.48               | U                    | 0.48            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Sodium       | 95.2              | <95.2               | U                    | 95.2            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Thallium     | 1.90              | <1.90               | U                    | 1.90            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Vanadium     | 1.90              | <1.90               | U                    | 1.90            | P | 11/08/2024        | 00:08             | LB133344 |
|                   | Zinc         | 1.90              | <1.90               | U                    | 1.90            | P | 11/08/2024        | 00:08             | LB133344 |





# METAL CALIBRATION DATA

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|----|------------------|------------------|---------------|
| ICV68     | Mercury | 4.12           | 4.0        | 103           | 90 - 110                  | CV | 11/04/2024       | 14:11            | LB133275      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** PLASMA-PURE

| Sample ID | Analyte | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|---------|----------------|------------|---------------|---------------------------|----|------------------|------------------|---------------|
| CCV22     | Mercury | 5.29           | 5.0        | 106           | 90 - 110                  | CV | 11/04/2024       | 14:18            | LB133275      |
| CCV23     | Mercury | 5.34           | 5.0        | 107           | 90 - 110                  | CV | 11/04/2024       | 14:48            | LB133275      |
| CCV24     | Mercury | 5.37           | 5.0        | 107           | 90 - 110                  | CV | 11/04/2024       | 15:18            | LB133275      |
| CCV25     | Mercury | 5.41           | 5.0        | 108           | 90 - 110                  | CV | 11/04/2024       | 15:43            | LB133275      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| ICV01     | Aluminum  | 2490           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Antimony  | 999            | 1000       | 100           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Arsenic   | 948            | 1000       | 95            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Barium    | 494            | 520        | 95            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Beryllium | 533            | 510        | 105           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Cadmium   | 485            | 510        | 95            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Calcium   | 9920           | 10000      | 99            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Chromium  | 545            | 520        | 105           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Cobalt    | 513            | 520        | 99            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Copper    | 528            | 510        | 104           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Iron      | 9840           | 10000      | 98            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Lead      | 979            | 1000       | 98            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Magnesium | 6070           | 6000       | 101           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Manganese | 510            | 520        | 98            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Nickel    | 515            | 530        | 97            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Potassium | 9580           | 9900       | 97            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Selenium  | 989            | 1000       | 99            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Silver    | 260            | 250        | 104           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Sodium    | 9470           | 10000      | 95            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Thallium  | 1090           | 1000       | 109           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Vanadium  | 493            | 500        | 99            | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |
|           | Zinc      | 1010           | 1000       | 102           | 90 - 110                  | P | 11/04/2024       | 17:28            | LB133296      |

## Metals

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| LLICV01   | Aluminum  | 110            | 100        | 110           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Antimony  | 50.7           | 50.0       | 101           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Arsenic   | 19.2           | 20.0       | 96            | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Barium    | 106            | 100        | 106           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Beryllium | 6.34           | 6.0        | 106           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Cadmium   | 6.64           | 6.0        | 111           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Calcium   | 2050           | 2000       | 102           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Chromium  | 10.9           | 10.0       | 109           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Cobalt    | 30.9           | 30.0       | 103           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Copper    | 23.3           | 20.0       | 116           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Iron      | 102            | 100        | 102           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Lead      | 11.8           | 12.0       | 98            | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Magnesium | 2120           | 2000       | 106           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Manganese | 20.9           | 20.0       | 105           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Nickel    | 41.1           | 40.0       | 103           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Potassium | 1880           | 2000       | 94            | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Selenium  | 17.6           | 20.0       | 88            | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Silver    | 10.4           | 10.0       | 104           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Sodium    | 1950           | 2000       | 98            | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Thallium  | 40.7           | 40.0       | 102           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Vanadium  | 40.3           | 40.0       | 101           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |
|           | Zinc      | 44.0           | 40.0       | 110           | 80 - 120                  | P | 11/04/2024       | 17:37            | LB133296      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV01     | Aluminum  | 9930           | 10000      | 99            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Antimony  | 4940           | 5000       | 99            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Arsenic   | 5050           | 5000       | 101           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Barium    | 9740           | 10000      | 97            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Beryllium | 265            | 250        | 106           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Cadmium   | 2560           | 2500       | 102           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Calcium   | 25000          | 25000      | 100           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Chromium  | 1050           | 1000       | 105           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Cobalt    | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Copper    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Iron      | 4950           | 5000       | 99            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Lead      | 5120           | 5000       | 102           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Magnesium | 25700          | 25000      | 103           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Manganese | 2490           | 2500       | 100           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Nickel    | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Potassium | 24600          | 25000      | 98            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Selenium  | 5110           | 5000       | 102           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Silver    | 1280           | 1250       | 102           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Sodium    | 24800          | 25000      | 99            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Thallium  | 4720           | 5000       | 94            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Vanadium  | 2480           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
|           | Zinc      | 2540           | 2500       | 102           | 90 - 110                  | P | 11/04/2024       | 18:11            | LB133296      |
| CCV02     | Aluminum  | 10400          | 10000      | 104           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Antimony  | 5220           | 5000       | 104           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Arsenic   | 5310           | 5000       | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Barium    | 10200          | 10000      | 102           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Beryllium | 267            | 250        | 107           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Cadmium   | 2670           | 2500       | 107           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Calcium   | 26000          | 25000      | 104           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Chromium  | 1060           | 1000       | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Cobalt    | 2630           | 2500       | 105           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Copper    | 1320           | 1250       | 105           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Iron      | 5200           | 5000       | 104           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Lead      | 5320           | 5000       | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |

## Metals

- 2a -

### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV02     | Magnesium | 26200          | 25000      | 105           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Manganese | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Nickel    | 2640           | 2500       | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Potassium | 26500          | 25000      | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Selenium  | 5390           | 5000       | 108           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Silver    | 1330           | 1250       | 107           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Sodium    | 26400          | 25000      | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Thallium  | 4920           | 5000       | 98            | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Vanadium  | 2560           | 2500       | 102           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
|           | Zinc      | 2650           | 2500       | 106           | 90 - 110                  | P | 11/04/2024       | 19:02            | LB133296      |
| CCV03     | Aluminum  | 10300          | 10000      | 102           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Antimony  | 5190           | 5000       | 104           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Arsenic   | 5310           | 5000       | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Beryllium | 266            | 250        | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Cadmium   | 2660           | 2500       | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Calcium   | 25500          | 25000      | 102           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Chromium  | 1090           | 1000       | 109           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Cobalt    | 2620           | 2500       | 105           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Copper    | 1310           | 1250       | 105           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Iron      | 5040           | 5000       | 101           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Lead      | 5320           | 5000       | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Magnesium | 25900          | 25000      | 104           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Manganese | 2480           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Nickel    | 2630           | 2500       | 105           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Potassium | 26500          | 25000      | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Selenium  | 5390           | 5000       | 108           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Silver    | 1320           | 1250       | 106           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Sodium    | 22800          | 25000      | 91            | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Thallium  | 4830           | 5000       | 97            | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
| CCV04     | Vanadium  | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Zinc      | 2620           | 2500       | 105           | 90 - 110                  | P | 11/04/2024       | 19:46            | LB133296      |
|           | Aluminum  | 10100          | 10000      | 101           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Antimony  | 5260           | 5000       | 105           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV04     | Arsenic   | 5210           | 5000       | 104           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Barium    | 10200          | 10000      | 102           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Beryllium | 248            | 250        | 99            | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Cadmium   | 2530           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Calcium   | 24900          | 25000      | 99            | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Chromium  | 1050           | 1000       | 105           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Cobalt    | 2540           | 2500       | 102           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Copper    | 1290           | 1250       | 103           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Iron      | 5270           | 5000       | 105           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Lead      | 5020           | 5000       | 100           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Magnesium | 24800          | 25000      | 99            | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Manganese | 2470           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Nickel    | 2540           | 2500       | 102           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Potassium | 25700          | 25000      | 103           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Selenium  | 5300           | 5000       | 106           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Silver    | 1310           | 1250       | 105           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Sodium    | 26800          | 25000      | 107           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Thallium  | 4740           | 5000       | 95            | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Vanadium  | 2510           | 2500       | 100           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
|           | Zinc      | 2610           | 2500       | 104           | 90 - 110                  | P | 11/04/2024       | 21:07            | LB133296      |
| CCV05     | Aluminum  | 9940           | 10000      | 99            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Antimony  | 5110           | 5000       | 102           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Arsenic   | 5110           | 5000       | 102           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Beryllium | 254            | 250        | 102           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Cadmium   | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Calcium   | 24600          | 25000      | 99            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Chromium  | 1040           | 1000       | 104           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Cobalt    | 2520           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Copper    | 1270           | 1250       | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Iron      | 5030           | 5000       | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Lead      | 5020           | 5000       | 100           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Magnesium | 24800          | 25000      | 99            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Manganese | 2470           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |



**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV05     | Nickel    | 2510           | 2500       | 101           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Potassium | 26600          | 25000      | 106           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Selenium  | 5180           | 5000       | 104           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Silver    | 1290           | 1250       | 103           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Sodium    | 25500          | 25000      | 102           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Thallium  | 4730           | 5000       | 95            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Vanadium  | 2470           | 2500       | 99            | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |
|           | Zinc      | 2570           | 2500       | 103           | 90 - 110                  | P | 11/04/2024       | 21:47            | LB133296      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| ICV01     | Aluminum  | 2550           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Antimony  | 981            | 1000       | 98            | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Arsenic   | 1010           | 1000       | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Barium    | 522            | 520        | 100           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Beryllium | 520            | 510        | 102           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Cadmium   | 500            | 510        | 98            | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Calcium   | 10200          | 10000      | 102           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Chromium  | 529            | 520        | 102           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Cobalt    | 506            | 520        | 97            | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Copper    | 516            | 510        | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Iron      | 10100          | 10000      | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Lead      | 1000           | 1000       | 100           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Magnesium | 5990           | 6000       | 100           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Manganese | 526            | 520        | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Nickel    | 509            | 530        | 96            | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Potassium | 9880           | 9900       | 100           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Selenium  | 1010           | 1000       | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Silver    | 258            | 250        | 103           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Sodium    | 9370           | 10000      | 94            | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Thallium  | 1050           | 1000       | 105           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Vanadium  | 503            | 500        | 101           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |
|           | Zinc      | 1050           | 1000       | 104           | 90 - 110                  | P | 11/06/2024       | 17:34            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| LLICV01   | Aluminum  | 103            | 100        | 103           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Antimony  | 48.9           | 50.0       | 98            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Arsenic   | 19.2           | 20.0       | 96            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Barium    | 104            | 100        | 104           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Beryllium | 6.08           | 6.0        | 101           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Cadmium   | 6.52           | 6.0        | 109           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Calcium   | 2060           | 2000       | 103           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Chromium  | 9.84           | 10.0       | 98            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Cobalt    | 29.1           | 30.0       | 97            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Copper    | 21.7           | 20.0       | 108           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Iron      | 95.1           | 100        | 95            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Lead      | 12.2           | 12.0       | 102           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Magnesium | 2030           | 2000       | 102           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Manganese | 21.2           | 20.0       | 106           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Nickel    | 40.6           | 40.0       | 102           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Potassium | 1990           | 2000       | 99            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Selenium  | 20.1           | 20.0       | 100           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Silver    | 10.1           | 10.0       | 101           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Sodium    | 1680           | 2000       | 84            | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Thallium  | 41.1           | 40.0       | 103           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Vanadium  | 40.9           | 40.0       | 102           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |
|           | Zinc      | 44.7           | 40.0       | 112           | 80 - 120                  | P | 11/06/2024       | 17:38            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV01     | Aluminum  | 10100          | 10000      | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Antimony  | 5020           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Arsenic   | 5050           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Barium    | 10300          | 10000      | 103           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Beryllium | 255            | 250        | 102           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Cadmium   | 2500           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Calcium   | 25300          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Chromium  | 1010           | 1000       | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Cobalt    | 2490           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Copper    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Iron      | 4970           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Lead      | 5010           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Magnesium | 25100          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Manganese | 2540           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Nickel    | 2500           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Potassium | 24900          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Selenium  | 5060           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Sodium    | 25800          | 25000      | 103           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Thallium  | 5280           | 5000       | 106           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Vanadium  | 2530           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
|           | Zinc      | 2470           | 2500       | 99            | 90 - 110                  | P | 11/06/2024       | 18:23            | LB133323      |
| CCV02     | Aluminum  | 10000          | 10000      | 100           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Antimony  | 4960           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Arsenic   | 4940           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Beryllium | 256            | 250        | 102           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Cadmium   | 2480           | 2500       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Calcium   | 25300          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Chromium  | 993            | 1000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Cobalt    | 2480           | 2500       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Copper    | 1240           | 1250       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Iron      | 4880           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Lead      | 4970           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV02     | Magnesium | 25100          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Manganese | 2540           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Nickel    | 2480           | 2500       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Potassium | 24200          | 25000      | 97            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Selenium  | 4960           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Silver    | 1230           | 1250       | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Sodium    | 24700          | 25000      | 99            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Thallium  | 5160           | 5000       | 103           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Vanadium  | 2530           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
|           | Zinc      | 2430           | 2500       | 97            | 90 - 110                  | P | 11/06/2024       | 18:39            | LB133323      |
| CCV03     | Aluminum  | 9900           | 10000      | 99            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Antimony  | 4880           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Arsenic   | 4870           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Beryllium | 254            | 250        | 102           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Cadmium   | 2450           | 2500       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Calcium   | 25100          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Chromium  | 1010           | 1000       | 100           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Cobalt    | 2450           | 2500       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Copper    | 1220           | 1250       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Iron      | 5050           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Lead      | 4910           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Magnesium | 24700          | 25000      | 99            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Manganese | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Nickel    | 2450           | 2500       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Potassium | 25200          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Selenium  | 4880           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Silver    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Sodium    | 26100          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Thallium  | 5030           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
| CCV04     | Vanadium  | 2490           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Zinc      | 2440           | 2500       | 98            | 90 - 110                  | P | 11/06/2024       | 19:32            | LB133323      |
|           | Aluminum  | 10000          | 10000      | 100           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Antimony  | 5040           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV04     | Arsenic   | 5070           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Barium    | 10200          | 10000      | 102           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Beryllium | 257            | 250        | 103           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Cadmium   | 2540           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Calcium   | 25200          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Chromium  | 1010           | 1000       | 100           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Cobalt    | 2530           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Copper    | 1270           | 1250       | 102           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Iron      | 4920           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Lead      | 5080           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Magnesium | 24900          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Manganese | 2520           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Nickel    | 2540           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Potassium | 24500          | 25000      | 98            | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Selenium  | 5060           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Sodium    | 25500          | 25000      | 102           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Thallium  | 5290           | 5000       | 106           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Vanadium  | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
|           | Zinc      | 2450           | 2500       | 98            | 90 - 110                  | P | 11/06/2024       | 20:22            | LB133323      |
| CCV05     | Aluminum  | 10300          | 10000      | 103           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Antimony  | 5050           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Arsenic   | 5070           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Barium    | 10500          | 10000      | 105           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Beryllium | 265            | 250        | 106           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Cadmium   | 2570           | 2500       | 103           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Calcium   | 26100          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Chromium  | 1030           | 1000       | 103           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Cobalt    | 2560           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Copper    | 1270           | 1250       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Iron      | 5050           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Lead      | 5120           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Magnesium | 25800          | 25000      | 103           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Manganese | 2620           | 2500       | 105           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV05     | Nickel    | 2560           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Potassium | 25200          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Selenium  | 5060           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Silver    | 1280           | 1250       | 102           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Sodium    | 26400          | 25000      | 106           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Thallium  | 5270           | 5000       | 105           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Vanadium  | 2590           | 2500       | 104           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
|           | Zinc      | 2500           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 21:13            | LB133323      |
| CCV06     | Aluminum  | 10100          | 10000      | 101           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Antimony  | 4990           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Arsenic   | 4990           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Barium    | 10500          | 10000      | 104           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Beryllium | 262            | 250        | 105           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Cadmium   | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Calcium   | 25600          | 25000      | 102           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Chromium  | 1010           | 1000       | 101           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Cobalt    | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Iron      | 4880           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Lead      | 5030           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Magnesium | 25000          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Manganese | 2530           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Nickel    | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Potassium | 24700          | 25000      | 99            | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Selenium  | 4990           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Sodium    | 25900          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Thallium  | 5210           | 5000       | 104           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Vanadium  | 2520           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
|           | Zinc      | 2270           | 2500       | 91            | 90 - 110                  | P | 11/06/2024       | 22:11            | LB133323      |
| CCV07     | Aluminum  | 10200          | 10000      | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Antimony  | 5020           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Arsenic   | 5020           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Barium    | 10600          | 10000      | 106           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV07     | Beryllium | 274            | 250        | 110           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Cadmium   | 2550           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Calcium   | 25900          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Chromium  | 1040           | 1000       | 104           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Cobalt    | 2540           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Copper    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Iron      | 5090           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Lead      | 5100           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Magnesium | 25600          | 25000      | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Manganese | 2600           | 2500       | 104           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Nickel    | 2550           | 2500       | 102           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Potassium | 26000          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Selenium  | 5020           | 5000       | 100           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Silver    | 1300           | 1250       | 104           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Sodium    | 27100          | 25000      | 108           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Thallium  | 5240           | 5000       | 105           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Vanadium  | 2560           | 2500       | 103           | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
|           | Zinc      | 2340           | 2500       | 94            | 90 - 110                  | P | 11/06/2024       | 23:03            | LB133323      |
| CCV08     | Aluminum  | 10000          | 10000      | 100           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Antimony  | 4940           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Arsenic   | 4970           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Barium    | 10400          | 10000      | 104           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Beryllium | 270            | 250        | 108           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Cadmium   | 2520           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Calcium   | 25500          | 25000      | 102           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Chromium  | 1020           | 1000       | 102           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Cobalt    | 2510           | 2500       | 100           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Copper    | 1240           | 1250       | 100           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Iron      | 4890           | 5000       | 98            | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Lead      | 5040           | 5000       | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Magnesium | 25300          | 25000      | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Manganese | 2570           | 2500       | 103           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Nickel    | 2510           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Potassium | 24900          | 25000      | 100           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |



## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV08     | Selenium  | 4950           | 5000       | 99            | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Silver    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Sodium    | 25900          | 25000      | 104           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Thallium  | 5090           | 5000       | 102           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Vanadium  | 2530           | 2500       | 101           | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
|           | Zinc      | 2400           | 2500       | 96            | 90 - 110                  | P | 11/06/2024       | 23:59            | LB133323      |
| CCV09     | Aluminum  | 9840           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Antimony  | 4890           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Arsenic   | 4880           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Beryllium | 260            | 250        | 104           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Cadmium   | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Calcium   | 24800          | 25000      | 99            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Chromium  | 997            | 1000       | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Cobalt    | 2440           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Copper    | 1220           | 1250       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Iron      | 4930           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Lead      | 4900           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Magnesium | 24600          | 25000      | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Manganese | 2510           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Nickel    | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Potassium | 25100          | 25000      | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Selenium  | 4890           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Sodium    | 26100          | 25000      | 104           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Thallium  | 4980           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Vanadium  | 2500           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
|           | Zinc      | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 00:53            | LB133323      |
| CCV10     | Aluminum  | 10100          | 10000      | 101           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Antimony  | 4760           | 5000       | 95            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Arsenic   | 4860           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Barium    | 10100          | 10000      | 101           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Beryllium | 245            | 250        | 98            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Cadmium   | 2660           | 2500       | 106           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV10     | Calcium   | 27400          | 25000      | 109           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Chromium  | 1080           | 1000       | 108           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Cobalt    | 2610           | 2500       | 104           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Copper    | 1220           | 1250       | 98            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Iron      | 4960           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Lead      | 5270           | 5000       | 105           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Magnesium | 23100          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Manganese | 2710           | 2500       | 108           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Nickel    | 2620           | 2500       | 105           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Potassium | 23100          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Selenium  | 4770           | 5000       | 95            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Silver    | 1300           | 1250       | 104           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Sodium    | 23600          | 25000      | 94            | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Thallium  | 5290           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Vanadium  | 2640           | 2500       | 106           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |
|           | Zinc      | 2540           | 2500       | 102           | 90 - 110                  | P | 11/07/2024       | 01:49            | LB133323      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| ICV01     | Aluminum  | 2590           | 2500       | 104           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Antimony  | 1010           | 1000       | 101           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Arsenic   | 1030           | 1000       | 103           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Barium    | 521            | 520        | 100           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Beryllium | 515            | 510        | 101           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Cadmium   | 509            | 510        | 100           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Calcium   | 10200          | 10000      | 102           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Chromium  | 531            | 520        | 102           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Cobalt    | 516            | 520        | 99            | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Copper    | 531            | 510        | 104           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Iron      | 9990           | 10000      | 100           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Lead      | 1020           | 1000       | 102           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Magnesium | 6010           | 6000       | 100           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Manganese | 526            | 520        | 101           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Nickel    | 518            | 530        | 98            | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Potassium | 9890           | 9900       | 100           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Selenium  | 1040           | 1000       | 104           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Silver    | 256            | 250        | 102           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Sodium    | 9440           | 10000      | 94            | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Thallium  | 1100           | 1000       | 110           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Vanadium  | 507            | 500        | 101           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |
|           | Zinc      | 1050           | 1000       | 105           | 90 - 110                  | P | 11/07/2024       | 13:49            | LB133344      |

**Metals**

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**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663

**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663

**Initial Calibration Source:** EPA

**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| LLICV01   | Aluminum  | 103            | 100        | 103           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Antimony  | 50.8           | 50.0       | 102           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Arsenic   | 18.0           | 20.0       | 90            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Barium    | 100            | 100        | 100           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Beryllium | 5.93           | 6.0        | 99            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Cadmium   | 6.52           | 6.0        | 109           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Calcium   | 2010           | 2000       | 100           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Chromium  | 9.52           | 10.0       | 95            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Cobalt    | 29.4           | 30.0       | 98            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Copper    | 22.7           | 20.0       | 114           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Iron      | 96.8           | 100        | 97            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Lead      | 11.4           | 12.0       | 95            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Magnesium | 2020           | 2000       | 101           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Manganese | 20.2           | 20.0       | 101           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Nickel    | 38.5           | 40.0       | 96            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Potassium | 2010           | 2000       | 101           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Selenium  | 20.8           | 20.0       | 104           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Silver    | 10.8           | 10.0       | 108           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Sodium    | 1680           | 2000       | 84            | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Thallium  | 43.4           | 40.0       | 108           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Vanadium  | 40.8           | 40.0       | 102           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |
|           | Zinc      | 42.0           | 40.0       | 105           | 80 - 120                  | P | 11/07/2024       | 14:23            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV01     | Aluminum  | 10000          | 10000      | 100           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Antimony  | 5120           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Arsenic   | 5040           | 5000       | 101           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Barium    | 9710           | 10000      | 97            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Beryllium | 239            | 250        | 96            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Cadmium   | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Calcium   | 24000          | 25000      | 96            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Chromium  | 992            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Cobalt    | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Copper    | 1270           | 1250       | 102           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Iron      | 4870           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Lead      | 4920           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Magnesium | 24000          | 25000      | 96            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Manganese | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Nickel    | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Potassium | 25100          | 25000      | 100           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Selenium  | 5150           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Sodium    | 25300          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Thallium  | 5140           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Vanadium  | 2450           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
|           | Zinc      | 2530           | 2500       | 101           | 90 - 110                  | P | 11/07/2024       | 15:01            | LB133344      |
| CCV02     | Aluminum  | 9620           | 10000      | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Antimony  | 5030           | 5000       | 101           | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Arsenic   | 4950           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Barium    | 9390           | 10000      | 94            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Beryllium | 231            | 250        | 92            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Cadmium   | 2390           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Calcium   | 23100          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Chromium  | 963            | 1000       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Cobalt    | 2390           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Iron      | 4810           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Lead      | 4800           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV02     | Magnesium | 23100          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Manganese | 2280           | 2500       | 91            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Nickel    | 2390           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Potassium | 25000          | 25000      | 100           | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Selenium  | 5050           | 5000       | 101           | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Silver    | 1220           | 1250       | 98            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Sodium    | 25800          | 25000      | 103           | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Thallium  | 4850           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Vanadium  | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
|           | Zinc      | 2480           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 15:53            | LB133344      |
| CCV03     | Aluminum  | 10100          | 10000      | 101           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Antimony  | 5250           | 5000       | 105           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Arsenic   | 5190           | 5000       | 104           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Barium    | 9850           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Beryllium | 235            | 250        | 94            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Cadmium   | 2470           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Calcium   | 24000          | 25000      | 96            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Chromium  | 993            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Cobalt    | 2470           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Copper    | 1300           | 1250       | 104           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Iron      | 4970           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Lead      | 4970           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Magnesium | 23900          | 25000      | 96            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Manganese | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Nickel    | 2480           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Potassium | 25900          | 25000      | 103           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Selenium  | 5320           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Silver    | 1240           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Sodium    | 25500          | 25000      | 102           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Thallium  | 5400           | 5000       | 108           | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Vanadium  | 2460           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
|           | Zinc      | 2400           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 16:45            | LB133344      |
| CCV04     | Aluminum  | 10200          | 10000      | 102           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Antimony  | 5280           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV04     | Arsenic   | 5210           | 5000       | 104           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Barium    | 9810           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Beryllium | 242            | 250        | 97            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Cadmium   | 2500           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Calcium   | 24200          | 25000      | 97            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Chromium  | 1020           | 1000       | 102           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Cobalt    | 2490           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Copper    | 1300           | 1250       | 104           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Iron      | 4980           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Lead      | 5010           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Magnesium | 24300          | 25000      | 97            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Manganese | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Nickel    | 2490           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Potassium | 26000          | 25000      | 104           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Selenium  | 5390           | 5000       | 108           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Silver    | 1260           | 1250       | 101           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Sodium    | 25400          | 25000      | 102           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Thallium  | 5070           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Vanadium  | 2490           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
|           | Zinc      | 2510           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 17:56            | LB133344      |
| CCV05     | Aluminum  | 10000          | 10000      | 100           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Antimony  | 5190           | 5000       | 104           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Arsenic   | 5120           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Barium    | 9790           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Beryllium | 236            | 250        | 94            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Cadmium   | 2430           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Calcium   | 23800          | 25000      | 95            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Chromium  | 988            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Cobalt    | 2430           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Copper    | 1280           | 1250       | 102           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Iron      | 4910           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Lead      | 4880           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Magnesium | 23800          | 25000      | 95            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Manganese | 2350           | 2500       | 94            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV05     | Nickel    | 2430           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Potassium | 25800          | 25000      | 103           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Selenium  | 5290           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Sodium    | 25600          | 25000      | 102           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Thallium  | 5000           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Vanadium  | 2440           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
|           | Zinc      | 2500           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 18:32            | LB133344      |
| CCV06     | Aluminum  | 9950           | 10000      | 100           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Antimony  | 5160           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Arsenic   | 5110           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Barium    | 9640           | 10000      | 96            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Beryllium | 238            | 250        | 95            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Cadmium   | 2460           | 2500       | 99            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Calcium   | 23800          | 25000      | 95            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Chromium  | 994            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Cobalt    | 2460           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Copper    | 1270           | 1250       | 102           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Iron      | 4870           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Lead      | 4930           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Magnesium | 23800          | 25000      | 95            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Manganese | 2330           | 2500       | 93            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Nickel    | 2460           | 2500       | 98            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Potassium | 25300          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Selenium  | 5260           | 5000       | 105           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Silver    | 1240           | 1250       | 99            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Sodium    | 25300          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Thallium  | 5060           | 5000       | 101           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Vanadium  | 2430           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
|           | Zinc      | 2490           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 19:08            | LB133344      |
| CCV07     | Aluminum  | 9840           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Antimony  | 5160           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Arsenic   | 5100           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Barium    | 9400           | 10000      | 94            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |



## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV07     | Beryllium | 232            | 250        | 93            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Cadmium   | 2420           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Calcium   | 23300          | 25000      | 93            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Chromium  | 986            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Cobalt    | 2410           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Copper    | 1270           | 1250       | 101           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Iron      | 4800           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Lead      | 4850           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Magnesium | 23400          | 25000      | 94            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Manganese | 2270           | 2500       | 91            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Nickel    | 2410           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Potassium | 25200          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Selenium  | 5270           | 5000       | 105           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Silver    | 1230           | 1250       | 98            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Sodium    | 24900          | 25000      | 100           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Thallium  | 4910           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Vanadium  | 2400           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
|           | Zinc      | 2490           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 19:58            | LB133344      |
| CCV08     | Aluminum  | 9850           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Antimony  | 5180           | 5000       | 104           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Arsenic   | 5100           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Barium    | 9480           | 10000      | 95            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Beryllium | 234            | 250        | 94            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Cadmium   | 2410           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Calcium   | 23200          | 25000      | 93            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Chromium  | 989            | 1000       | 99            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Cobalt    | 2410           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Copper    | 1270           | 1250       | 102           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Iron      | 4890           | 5000       | 98            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Lead      | 4840           | 5000       | 97            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Magnesium | 23300          | 25000      | 93            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Manganese | 2280           | 2500       | 91            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Nickel    | 2410           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Potassium | 25900          | 25000      | 104           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV08     | Selenium  | 5290           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Silver    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Sodium    | 26000          | 25000      | 104           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Thallium  | 4970           | 5000       | 99            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Vanadium  | 2390           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
|           | Zinc      | 2530           | 2500       | 101           | 90 - 110                  | P | 11/07/2024       | 20:58            | LB133344      |
| CCV09     | Aluminum  | 9720           | 10000      | 97            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Antimony  | 5100           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Arsenic   | 5030           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Barium    | 9510           | 10000      | 95            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Beryllium | 231            | 250        | 92            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Cadmium   | 2390           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Calcium   | 23100          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Chromium  | 966            | 1000       | 97            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Cobalt    | 2380           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Iron      | 4750           | 5000       | 95            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Lead      | 4780           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Magnesium | 22900          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Manganese | 2250           | 2500       | 90            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Nickel    | 2380           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Potassium | 25100          | 25000      | 100           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Selenium  | 5170           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Silver    | 1210           | 1250       | 97            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Sodium    | 25300          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Thallium  | 5380           | 5000       | 108           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Vanadium  | 2360           | 2500       | 94            | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
|           | Zinc      | 2670           | 2500       | 107           | 90 - 110                  | P | 11/07/2024       | 21:51            | LB133344      |
| CCV10     | Aluminum  | 9650           | 10000      | 96            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Antimony  | 5080           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Arsenic   | 5000           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Barium    | 9460           | 10000      | 95            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Beryllium | 255            | 250        | 102           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Cadmium   | 2340           | 2500       | 94            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV10     | Calcium   | 22600          | 25000      | 90            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Chromium  | 963            | 1000       | 96            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Cobalt    | 2340           | 2500       | 94            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Copper    | 1240           | 1250       | 99            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Iron      | 4790           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Lead      | 4710           | 5000       | 94            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Magnesium | 26500          | 25000      | 106           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Manganese | 2500           | 2500       | 100           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Nickel    | 2340           | 2500       | 94            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Potassium | 26100          | 25000      | 104           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Selenium  | 5160           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Silver    | 1220           | 1250       | 98            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Sodium    | 27200          | 25000      | 109           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Thallium  | 5290           | 5000       | 106           | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Vanadium  | 2320           | 2500       | 93            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
|           | Zinc      | 2400           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 22:52            | LB133344      |
| CCV11     | Aluminum  | 9750           | 10000      | 98            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Antimony  | 5100           | 5000       | 102           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Arsenic   | 5020           | 5000       | 100           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Barium    | 9690           | 10000      | 97            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Beryllium | 234            | 250        | 93            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Cadmium   | 2390           | 2500       | 96            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Calcium   | 23200          | 25000      | 93            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Chromium  | 962            | 1000       | 96            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Cobalt    | 2390           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Copper    | 1250           | 1250       | 100           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Iron      | 4730           | 5000       | 94            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Lead      | 4800           | 5000       | 96            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Magnesium | 23000          | 25000      | 92            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Manganese | 2290           | 2500       | 92            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Nickel    | 2390           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Potassium | 25300          | 25000      | 101           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Selenium  | 5160           | 5000       | 103           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Silver    | 1210           | 1250       | 97            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |

## Metals

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### INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Union Paving & Construction Company SDG No.: P4663  
Contract: UNIO02 Lab Code: CHEM Case No.: P4663 SAS No.: P4663  
Initial Calibration Source: EPA  
Continuing Calibration Source: Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV11     | Sodium    | 26300          | 25000      | 105           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Thallium  | 5350           | 5000       | 107           | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Vanadium  | 2370           | 2500       | 95            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
|           | Zinc      | 2430           | 2500       | 97            | 90 - 110                  | P | 11/07/2024       | 23:43            | LB133344      |
| CCV12     | Aluminum  | 9840           | 10000      | 98            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Antimony  | 5240           | 5000       | 105           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Arsenic   | 5150           | 5000       | 103           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Barium    | 9830           | 10000      | 98            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Beryllium | 228            | 250        | 91            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Cadmium   | 2390           | 2500       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Calcium   | 22900          | 25000      | 92            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Chromium  | 965            | 1000       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Cobalt    | 2390           | 2500       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Copper    | 1280           | 1250       | 102           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Iron      | 4790           | 5000       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Lead      | 4820           | 5000       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Magnesium | 22700          | 25000      | 91            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Manganese | 2260           | 2500       | 90            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Nickel    | 2390           | 2500       | 96            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Potassium | 26400          | 25000      | 106           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Selenium  | 5340           | 5000       | 107           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Silver    | 1230           | 1250       | 98            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Sodium    | 22700          | 25000      | 91            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Thallium  | 5270           | 5000       | 105           | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Vanadium  | 2370           | 2500       | 95            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
|           | Zinc      | 2380           | 2500       | 95            | 90 - 110                  | P | 11/08/2024       | 00:39            | LB133344      |
| CCV13     | Aluminum  | 9910           | 10000      | 99            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Antimony  | 5250           | 5000       | 105           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Arsenic   | 5160           | 5000       | 103           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Barium    | 9650           | 10000      | 96            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Beryllium | 233            | 250        | 93            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Cadmium   | 2420           | 2500       | 97            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Calcium   | 23200          | 25000      | 93            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Chromium  | 980            | 1000       | 98            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |

**Metals**

- 2a -

**INITIAL AND CONTINUING CALIBRATION VERIFICATION**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** EPA  
**Continuing Calibration Source:** Inorganic Ventures

| Sample ID | Analyte   | Result<br>ug/L | True Value | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CCV13     | Cobalt    | 2420           | 2500       | 97            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Copper    | 1290           | 1250       | 103           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Iron      | 4780           | 5000       | 96            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Lead      | 4870           | 5000       | 97            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Magnesium | 23100          | 25000      | 92            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Manganese | 2280           | 2500       | 91            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Nickel    | 2420           | 2500       | 97            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Potassium | 26000          | 25000      | 104           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Selenium  | 5340           | 5000       | 107           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Silver    | 1230           | 1250       | 99            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Sodium    | 26900          | 25000      | 108           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Thallium  | 5410           | 5000       | 108           | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Vanadium  | 2390           | 2500       | 96            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |
|           | Zinc      | 2470           | 2500       | 99            | 90 - 110                  | P | 11/08/2024       | 00:57            | LB133344      |



284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,  
Fax : 908 789 8922

**Metals**

**- 2b -**

**CRDL STANDARD FOR AA & ICP**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** \_\_\_\_\_  
**Continuing Calibration Source:** \_\_\_\_\_

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Acceptance<br>Window (%R) | M  | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|---------------------------|----|------------------|------------------|---------------|
| CRA       | Mercury   | 0.21           | 0.2                | 105           | 40 - 160                  | CV | 11/04/2024       | 14:25            | LB133275      |
| CRI01     | Aluminum  | 118            | 100                | 118           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Antimony  | 50.4           | 50.0               | 101           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Arsenic   | 19.6           | 20.0               | 98            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Barium    | 105            | 100                | 104           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Beryllium | 6.34           | 6.0                | 106           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Cadmium   | 6.64           | 6.0                | 111           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Calcium   | 2040           | 2000               | 102           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Chromium  | 10.7           | 10.0               | 107           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Cobalt    | 30.3           | 30.0               | 101           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Copper    | 22.5           | 20.0               | 112           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Iron      | 97.6           | 100                | 98            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Lead      | 11.7           | 12.0               | 98            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Magnesium | 2110           | 2000               | 105           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Manganese | 20.7           | 20.0               | 103           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Nickel    | 40.2           | 40.0               | 100           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Potassium | 1820           | 2000               | 91            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Selenium  | 18.8           | 20.0               | 94            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Silver    | 10.4           | 10.0               | 104           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Sodium    | 1960           | 2000               | 98            | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Thallium  | 39.9           | 40.0               | 100           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Vanadium  | 41.0           | 40.0               | 103           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
|           | Zinc      | 43.4           | 40.0               | 108           | 40 - 160                  | P  | 11/04/2024       | 17:52            | LB133296      |
| CRI01     | Aluminum  | 101            | 100                | 101           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Antimony  | 49.9           | 50.0               | 100           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Arsenic   | 20.3           | 20.0               | 102           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Barium    | 106            | 100                | 106           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Beryllium | 6.12           | 6.0                | 102           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Cadmium   | 6.64           | 6.0                | 111           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Calcium   | 2070           | 2000               | 104           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Chromium  | 9.93           | 10.0               | 99            | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Cobalt    | 29.6           | 30.0               | 99            | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Copper    | 21.9           | 20.0               | 109           | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Iron      | 76.9           | 100                | 77            | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |
|           | Lead      | 11.2           | 12.0               | 94            | 40 - 160                  | P  | 11/06/2024       | 18:04            | LB133323      |

# Metals

- 2b -

## CRDL STANDARD FOR AA & ICP

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**Initial Calibration Source:** \_\_\_\_\_  
**Continuing Calibration Source:** \_\_\_\_\_

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Acceptance<br>Window (%R) | M | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|---------------------------|---|------------------|------------------|---------------|
| CRI01     | Magnesium | 2070           | 2000               | 104           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Manganese | 21.2           | 20.0               | 106           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Nickel    | 39.4           | 40.0               | 99            | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Potassium | 1940           | 2000               | 97            | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Selenium  | 19.9           | 20.0               | 99            | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Silver    | 10.5           | 10.0               | 105           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Sodium    | 1590           | 2000               | 80            | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Thallium  | 41.9           | 40.0               | 105           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Vanadium  | 41.8           | 40.0               | 104           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
|           | Zinc      | 40.8           | 40.0               | 102           | 40 - 160                  | P | 11/06/2024       | 18:04            | LB133323      |
| CRI01     | Aluminum  | 106            | 100                | 106           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Antimony  | 51.9           | 50.0               | 104           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Arsenic   | 19.9           | 20.0               | 99            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Barium    | 99.8           | 100                | 100           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Beryllium | 5.88           | 6.0                | 98            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Cadmium   | 6.45           | 6.0                | 108           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Calcium   | 2010           | 2000               | 101           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Chromium  | 9.25           | 10.0               | 92            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Cobalt    | 29.3           | 30.0               | 98            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Copper    | 22.5           | 20.0               | 112           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Iron      | 95.5           | 100                | 96            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Lead      | 11.3           | 12.0               | 94            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Magnesium | 2000           | 2000               | 100           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Manganese | 20.5           | 20.0               | 102           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Nickel    | 38.8           | 40.0               | 97            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Potassium | 1950           | 2000               | 98            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Selenium  | 18.8           | 20.0               | 94            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Silver    | 10.7           | 10.0               | 107           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Sodium    | 1610           | 2000               | 81            | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Thallium  | 41.6           | 40.0               | 104           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Vanadium  | 40.4           | 40.0               | 101           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |
|           | Zinc      | 41.4           | 40.0               | 104           | 40 - 160                  | P | 11/07/2024       | 14:42            | LB133344      |

**Metals**  
**- 4 -**  
**INTERFERENCE CHECK SAMPLE**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSA01    | Aluminum  | 238000         | 255000             | 93            | 216000                 | 294000                  | 11/04/2024       | 18:03            | LB133296      |
|           | Antimony  | 4.43           |                    |               | -50                    | 50                      | 11/04/2024       | 18:03            | LB133296      |
|           | Arsenic   | -3.23          |                    |               | -20                    | 20                      | 11/04/2024       | 18:03            | LB133296      |
|           | Barium    | 14.2           | 6.0                | 237           | -94                    | 106                     | 11/04/2024       | 18:03            | LB133296      |
|           | Beryllium | 3.74           |                    |               | -6                     | 6                       | 11/04/2024       | 18:03            | LB133296      |
|           | Cadmium   | 3.20           | 1.0                | 320           | -5                     | 7                       | 11/04/2024       | 18:03            | LB133296      |
|           | Calcium   | 232000         | 245000             | 95            | 208000                 | 282000                  | 11/04/2024       | 18:03            | LB133296      |
|           | Chromium  | 60.6           | 52.0               | 116           | 42                     | 62                      | 11/04/2024       | 18:03            | LB133296      |
|           | Cobalt    | 2.80           |                    |               | -30                    | 30                      | 11/04/2024       | 18:03            | LB133296      |
|           | Copper    | 21.1           | 2.0                | 1055          | -18                    | 22                      | 11/04/2024       | 18:03            | LB133296      |
|           | Iron      | 95000          | 101000             | 94            | 85600                  | 116500                  | 11/04/2024       | 18:03            | LB133296      |
|           | Lead      | 1.99           |                    |               | -12                    | 12                      | 11/04/2024       | 18:03            | LB133296      |
|           | Magnesium | 251000         | 255000             | 98            | 216000                 | 294000                  | 11/04/2024       | 18:03            | LB133296      |
|           | Manganese | 6.90           | 7.0                | 99            | -13                    | 27                      | 11/04/2024       | 18:03            | LB133296      |
|           | Nickel    | 7.25           | 2.0                | 362           | -38                    | 42                      | 11/04/2024       | 18:03            | LB133296      |
|           | Potassium | -79.8          |                    |               | 0                      | 0                       | 11/04/2024       | 18:03            | LB133296      |
|           | Selenium  | -11.0          |                    |               | -20                    | 20                      | 11/04/2024       | 18:03            | LB133296      |
|           | Silver    | 0.40           |                    |               | -10                    | 10                      | 11/04/2024       | 18:03            | LB133296      |
|           | Sodium    | 149            |                    |               | 0                      | 0                       | 11/04/2024       | 18:03            | LB133296      |
|           | Thallium  | -1.19          |                    |               | -40                    | 40                      | 11/04/2024       | 18:03            | LB133296      |
|           | Vanadium  | 8.02           |                    |               | -40                    | 40                      | 11/04/2024       | 18:03            | LB133296      |
|           | Zinc      | 4.45           |                    |               | -40                    | 40                      | 11/04/2024       | 18:03            | LB133296      |
| ICSAB01   | Aluminum  | 239000         | 247000             | 97            | 209000                 | 285000                  | 11/04/2024       | 18:07            | LB133296      |
|           | Antimony  | 607            | 618                | 98            | 525                    | 711                     | 11/04/2024       | 18:07            | LB133296      |
|           | Arsenic   | 95.4           | 104                | 92            | 88.4                   | 120                     | 11/04/2024       | 18:07            | LB133296      |
|           | Barium    | 490            | 537                | 91            | 437                    | 637                     | 11/04/2024       | 18:07            | LB133296      |
|           | Beryllium | 534            | 495                | 108           | 420                    | 570                     | 11/04/2024       | 18:07            | LB133296      |
|           | Cadmium   | 984            | 972                | 101           | 826                    | 1120                    | 11/04/2024       | 18:07            | LB133296      |
|           | Calcium   | 232000         | 235000             | 99            | 199000                 | 271000                  | 11/04/2024       | 18:07            | LB133296      |
|           | Chromium  | 595            | 542                | 110           | 460                    | 624                     | 11/04/2024       | 18:07            | LB133296      |
|           | Cobalt    | 515            | 476                | 108           | 404                    | 548                     | 11/04/2024       | 18:07            | LB133296      |
|           | Copper    | 510            | 511                | 100           | 434                    | 588                     | 11/04/2024       | 18:07            | LB133296      |
|           | Iron      | 97000          | 99300              | 98            | 84400                  | 114500                  | 11/04/2024       | 18:07            | LB133296      |
|           | Lead      | 50.7           | 49.0               | 104           | 37                     | 61                      | 11/04/2024       | 18:07            | LB133296      |
|           | Magnesium | 251000         | 248000             | 101           | 210000                 | 286000                  | 11/04/2024       | 18:07            | LB133296      |
|           | Manganese | 491            | 507                | 97            | 430                    | 584                     | 11/04/2024       | 18:07            | LB133296      |
|           | Nickel    | 1030           | 954                | 108           | 810                    | 1100                    | 11/04/2024       | 18:07            | LB133296      |
|           | Potassium | -80.3          |                    |               | 0                      | 0                       | 11/04/2024       | 18:07            | LB133296      |
|           | Selenium  | 38.9           | 46.0               | 85            | 26                     | 66                      | 11/04/2024       | 18:07            | LB133296      |
|           | Silver    | 201            | 201                | 100           | 170                    | 232                     | 11/04/2024       | 18:07            | LB133296      |
|           | Sodium    | 146            |                    |               | 0                      | 0                       | 11/04/2024       | 18:07            | LB133296      |
|           | Thallium  | 69.5           | 108                | 64            | 68                     | 148                     | 11/04/2024       | 18:07            | LB133296      |



**Metals**  
**- 4 -**  
**INTERFERENCE CHECK SAMPLE**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSAB01   | Vanadium  | 485            | 491                | 99            | 417                    | 565                     | 11/04/2024       | 18:07            | LB133296      |
|           | Zinc      | 1050           | 952                | 110           | 809                    | 1095                    | 11/04/2024       | 18:07            | LB133296      |
| ICSA01    | Aluminum  | 257000         | 255000             | 101           | 216000                 | 294000                  | 11/06/2024       | 18:08            | LB133323      |
|           | Antimony  | -0.051         |                    |               | -50                    | 50                      | 11/06/2024       | 18:08            | LB133323      |
|           | Arsenic   | 2.46           |                    |               | -20                    | 20                      | 11/06/2024       | 18:08            | LB133323      |
|           | Barium    | 5.21           | 6.0                | 87            | -94                    | 106                     | 11/06/2024       | 18:08            | LB133323      |
|           | Beryllium | 1.28           |                    |               | -6                     | 6                       | 11/06/2024       | 18:08            | LB133323      |
|           | Cadmium   | 6.38           | 1.0                | 638           | -5                     | 7                       | 11/06/2024       | 18:08            | LB133323      |
|           | Calcium   | 248000         | 245000             | 101           | 208000                 | 282000                  | 11/06/2024       | 18:08            | LB133323      |
|           | Chromium  | 56.4           | 52.0               | 108           | 42                     | 62                      | 11/06/2024       | 18:08            | LB133323      |
|           | Cobalt    | 2.02           |                    |               | -30                    | 30                      | 11/06/2024       | 18:08            | LB133323      |
|           | Copper    | 0.49           | 2.0                | 24            | -18                    | 22                      | 11/06/2024       | 18:08            | LB133323      |
|           | Iron      | 98800          | 101000             | 98            | 85600                  | 116500                  | 11/06/2024       | 18:08            | LB133323      |
|           | Lead      | 9.93           |                    |               | -12                    | 12                      | 11/06/2024       | 18:08            | LB133323      |
|           | Magnesium | 268000         | 255000             | 105           | 216000                 | 294000                  | 11/06/2024       | 18:08            | LB133323      |
|           | Manganese | 4.23           | 7.0                | 60            | -13                    | 27                      | 11/06/2024       | 18:08            | LB133323      |
|           | Nickel    | 3.00           | 2.0                | 150           | -38                    | 42                      | 11/06/2024       | 18:08            | LB133323      |
|           | Potassium | 15.0           |                    |               | 0                      | 0                       | 11/06/2024       | 18:08            | LB133323      |
|           | Selenium  | -15.6          |                    |               | -20                    | 20                      | 11/06/2024       | 18:08            | LB133323      |
|           | Silver    | 1.23           |                    |               | -10                    | 10                      | 11/06/2024       | 18:08            | LB133323      |
|           | Sodium    | -15.2          |                    |               | 0                      | 0                       | 11/06/2024       | 18:08            | LB133323      |
|           | Thallium  | 2.62           |                    |               | -40                    | 40                      | 11/06/2024       | 18:08            | LB133323      |
|           | Vanadium  | 7.34           |                    |               | -40                    | 40                      | 11/06/2024       | 18:08            | LB133323      |
|           | Zinc      | 8.08           |                    |               | -40                    | 40                      | 11/06/2024       | 18:08            | LB133323      |
| ICSAB01   | Aluminum  | 261000         | 247000             | 106           | 209000                 | 285000                  | 11/06/2024       | 18:13            | LB133323      |
|           | Antimony  | 616            | 618                | 100           | 525                    | 711                     | 11/06/2024       | 18:13            | LB133323      |
|           | Arsenic   | 114            | 104                | 110           | 88.4                   | 120                     | 11/06/2024       | 18:13            | LB133323      |
|           | Barium    | 529            | 537                | 98            | 437                    | 637                     | 11/06/2024       | 18:13            | LB133323      |
|           | Beryllium | 527            | 495                | 106           | 420                    | 570                     | 11/06/2024       | 18:13            | LB133323      |
|           | Cadmium   | 1020           | 972                | 105           | 826                    | 1120                    | 11/06/2024       | 18:13            | LB133323      |
|           | Calcium   | 250000         | 235000             | 106           | 199000                 | 271000                  | 11/06/2024       | 18:13            | LB133323      |
|           | Chromium  | 562            | 542                | 104           | 460                    | 624                     | 11/06/2024       | 18:13            | LB133323      |
|           | Cobalt    | 514            | 476                | 108           | 404                    | 548                     | 11/06/2024       | 18:13            | LB133323      |
|           | Copper    | 488            | 511                | 96            | 434                    | 588                     | 11/06/2024       | 18:13            | LB133323      |
|           | Iron      | 100000         | 99300              | 101           | 84400                  | 114500                  | 11/06/2024       | 18:13            | LB133323      |
|           | Lead      | 57.7           | 49.0               | 118           | 37                     | 61                      | 11/06/2024       | 18:13            | LB133323      |
|           | Magnesium | 270000         | 248000             | 109           | 210000                 | 286000                  | 11/06/2024       | 18:13            | LB133323      |
|           | Manganese | 516            | 507                | 102           | 430                    | 584                     | 11/06/2024       | 18:13            | LB133323      |
|           | Nickel    | 1010           | 954                | 106           | 810                    | 1100                    | 11/06/2024       | 18:13            | LB133323      |
|           | Potassium | 3.43           |                    |               | 0                      | 0                       | 11/06/2024       | 18:13            | LB133323      |
|           | Selenium  | 36.0           | 46.0               | 78            | 26                     | 66                      | 11/06/2024       | 18:13            | LB133323      |
|           | Silver    | 203            | 201                | 101           | 170                    | 232                     | 11/06/2024       | 18:13            | LB133323      |

**Metals**  
**- 4 -**  
**INTERFERENCE CHECK SAMPLE**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte   | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|-----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSAB01   | Sodium    | -114           |                    |               | 0                      | 0                       | 11/06/2024       | 18:13            | LB133323      |
|           | Thallium  | 105            | 108                | 97            | 68                     | 148                     | 11/06/2024       | 18:13            | LB133323      |
|           | Vanadium  | 507            | 491                | 103           | 417                    | 565                     | 11/06/2024       | 18:13            | LB133323      |
|           | Zinc      | 1070           | 952                | 112           | 809                    | 1095                    | 11/06/2024       | 18:13            | LB133323      |
| ICSA01    | Aluminum  | 255000         | 255000             | 100           | 216000                 | 294000                  | 11/07/2024       | 14:47            | LB133344      |
|           | Antimony  | -0.14          |                    |               | -50                    | 50                      | 11/07/2024       | 14:47            | LB133344      |
|           | Arsenic   | 4.03           |                    |               | -20                    | 20                      | 11/07/2024       | 14:47            | LB133344      |
|           | Barium    | 1.97           | 6.0                | 33            | -94                    | 106                     | 11/07/2024       | 14:47            | LB133344      |
|           | Beryllium | 1.25           |                    |               | -6                     | 6                       | 11/07/2024       | 14:47            | LB133344      |
|           | Cadmium   | 6.27           | 1.0                | 627           | -5                     | 7                       | 11/07/2024       | 14:47            | LB133344      |
|           | Calcium   | 235000         | 245000             | 96            | 208000                 | 282000                  | 11/07/2024       | 14:47            | LB133344      |
|           | Chromium  | 54.7           | 52.0               | 105           | 42                     | 62                      | 11/07/2024       | 14:47            | LB133344      |
|           | Cobalt    | 1.98           |                    |               | -30                    | 30                      | 11/07/2024       | 14:47            | LB133344      |
|           | Copper    | 6.59           | 2.0                | 330           | -18                    | 22                      | 11/07/2024       | 14:47            | LB133344      |
|           | Iron      | 95800          | 101000             | 95            | 85600                  | 116500                  | 11/07/2024       | 14:47            | LB133344      |
|           | Lead      | 8.91           |                    |               | -12                    | 12                      | 11/07/2024       | 14:47            | LB133344      |
|           | Magnesium | 257000         | 255000             | 101           | 216000                 | 294000                  | 11/07/2024       | 14:47            | LB133344      |
|           | Manganese | 4.04           | 7.0                | 58            | -13                    | 27                      | 11/07/2024       | 14:47            | LB133344      |
|           | Nickel    | 2.14           | 2.0                | 107           | -38                    | 42                      | 11/07/2024       | 14:47            | LB133344      |
|           | Potassium | 27.1           |                    |               | 0                      | 0                       | 11/07/2024       | 14:47            | LB133344      |
|           | Selenium  | -18.3          |                    |               | -20                    | 20                      | 11/07/2024       | 14:47            | LB133344      |
|           | Silver    | 0.85           |                    |               | -10                    | 10                      | 11/07/2024       | 14:47            | LB133344      |
|           | Sodium    | -30.2          |                    |               | 0                      | 0                       | 11/07/2024       | 14:47            | LB133344      |
|           | Thallium  | 4.42           |                    |               | -40                    | 40                      | 11/07/2024       | 14:47            | LB133344      |
|           | Vanadium  | 7.40           |                    |               | -40                    | 40                      | 11/07/2024       | 14:47            | LB133344      |
|           | Zinc      | 6.19           |                    |               | -40                    | 40                      | 11/07/2024       | 14:47            | LB133344      |
| ICSAB01   | Aluminum  | 261000         | 247000             | 106           | 209000                 | 285000                  | 11/07/2024       | 14:51            | LB133344      |
|           | Antimony  | 621            | 618                | 100           | 525                    | 711                     | 11/07/2024       | 14:51            | LB133344      |
|           | Arsenic   | 116            | 104                | 112           | 88.4                   | 120                     | 11/07/2024       | 14:51            | LB133344      |
|           | Barium    | 504            | 537                | 94            | 437                    | 637                     | 11/07/2024       | 14:51            | LB133344      |
|           | Beryllium | 498            | 495                | 101           | 420                    | 570                     | 11/07/2024       | 14:51            | LB133344      |
|           | Cadmium   | 999            | 972                | 103           | 826                    | 1120                    | 11/07/2024       | 14:51            | LB133344      |
|           | Calcium   | 238000         | 235000             | 101           | 199000                 | 271000                  | 11/07/2024       | 14:51            | LB133344      |
|           | Chromium  | 556            | 542                | 103           | 460                    | 624                     | 11/07/2024       | 14:51            | LB133344      |
|           | Cobalt    | 503            | 476                | 106           | 404                    | 548                     | 11/07/2024       | 14:51            | LB133344      |
|           | Copper    | 493            | 511                | 96            | 434                    | 588                     | 11/07/2024       | 14:51            | LB133344      |
|           | Iron      | 98300          | 99300              | 99            | 84400                  | 114500                  | 11/07/2024       | 14:51            | LB133344      |
|           | Lead      | 56.6           | 49.0               | 116           | 37                     | 61                      | 11/07/2024       | 14:51            | LB133344      |
|           | Magnesium | 260000         | 248000             | 105           | 210000                 | 286000                  | 11/07/2024       | 14:51            | LB133344      |
|           | Manganese | 484            | 507                | 96            | 430                    | 584                     | 11/07/2024       | 14:51            | LB133344      |
|           | Nickel    | 991            | 954                | 104           | 810                    | 1100                    | 11/07/2024       | 14:51            | LB133344      |
|           | Potassium | 10.4           |                    |               | 0                      | 0                       | 11/07/2024       | 14:51            | LB133344      |

**Metals**  
- 4 -  
**INTERFERENCE CHECK SAMPLE**

**Client:** Union Paving & Construction Company **SDG No.:** P4663  
**Contract:** UNIO02 **Lab Code:** CHEM **Case No.:** P4663 **SAS No.:** P4663  
**ICS Source:** EPA **Instrument ID:** P4

| Sample ID | Analyte  | Result<br>ug/L | True Value<br>ug/L | %<br>Recovery | Low<br>Limit<br>(ug/L) | High<br>Limit<br>(ug/L) | Analysis<br>Date | Analysis<br>Time | Run<br>Number |
|-----------|----------|----------------|--------------------|---------------|------------------------|-------------------------|------------------|------------------|---------------|
| ICSAB01   | Selenium | 32.9           | 46.0               | 72            | 26                     | 66                      | 11/07/2024       | 14:51            | LB133344      |
|           | Silver   | 201            | 201                | 100           | 170                    | 232                     | 11/07/2024       | 14:51            | LB133344      |
|           | Sodium   | -89.4          |                    |               | 0                      | 0                       | 11/07/2024       | 14:51            | LB133344      |
|           | Thallium | 106            | 108                | 98            | 68                     | 148                     | 11/07/2024       | 14:51            | LB133344      |
|           | Vanadium | 493            | 491                | 100           | 417                    | 565                     | 11/07/2024       | 14:51            | LB133344      |
|           | Zinc     | 835            | 952                | 88            | 809                    | 1095                    | 11/07/2024       | 14:51            | LB133344      |



# METAL QC DATA

metals  
- 5a -  
**MATRIX SPIKE SUMMARY**

**client:** Union Paving & Construction Company      **level:** low      **sdg no.:** P4663  
**contract:** UNIO02      **lab code:** CHEM      **case no.:** P4663      **sas no.:** P4663  
**matrix:** Solid      **sample id:** P4663-02      **client id:** TENNANT-PAD-2-3-STOCKPILEMS  
**Percent Solids for Sample:** 90.9      **Spiked ID:** P4663-02MS      **Percent Solids for Spike Sample:** 90.9

| Analyte | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 120               | 0.32             |   | 0.011            | J | 0.26           | 118           |      | CV |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                                               |                                   |                                                            |
|---------------------------------------------------------------|-----------------------------------|------------------------------------------------------------|
| <b>client:</b> <u>Union Paving &amp; Construction Company</u> | <b>level:</b> <u>low</u>          | <b>sdg no.:</b> <u>P4663</u>                               |
| <b>contract:</b> <u>UNIO02</u>                                | <b>lab code:</b> <u>CHEM</u>      | <b>case no.:</b> <u>P4663</u> <b>sas no.:</b> <u>P4663</u> |
| <b>matrix:</b> <u>Solid</u>                                   | <b>sample id:</b> <u>P4663-02</u> | <b>client id:</b> <u>TENNANT-PAD-2-3-STOCKPILEMSD</u>      |
| <b>Percent Solids for Sample:</b> 90.9                        | <b>Spiked ID:</b> P4663-02MSD     | <b>Percent Solids for Spike Sample:</b> 90.9               |

| Analyte | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M  |
|---------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|----|
| Mercury | mg/Kg | 80 - 120               | 0.33          |   | 0.011            | J | 0.28           | 114           |      | CV |

**metals**  
**- 5a -**  
**MATRIX SPIKE SUMMARY**

|                                                               |                                     |                                                            |
|---------------------------------------------------------------|-------------------------------------|------------------------------------------------------------|
| <b>client:</b> <u>Union Paving &amp; Construction Company</u> | <b>level:</b> <u>low</u>            | <b>sdg no.:</b> <u>P4663</u>                               |
| <b>contract:</b> <u>UNIO02</u>                                | <b>lab code:</b> <u>CHEM</u>        | <b>case no.:</b> <u>P4663</u> <b>sas no.:</b> <u>P4663</u> |
| <b>matrix:</b> <u>Solid</u>                                   | <b>sample id:</b> <u>P4680-05</u>   | <b>client id:</b> <u>BP-F25MS</u>                          |
| <b>Percent Solids for Sample:</b> <u>88.8</u>                 | <b>Spiked ID:</b> <u>P4680-05MS</u> | <b>Percent Solids for Spike Sample:</b> <u>88.8</u>        |

| Analyte   | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 75 - 125               | 6560             |   | 6230             |   | 93.1           | 352           |      | P |
| Antimony  | mg/Kg | 75 - 125               | 21.3             |   | 2.56             | U | 37.2           | 57            | N    | P |
| Arsenic   | mg/Kg | 75 - 125               | 35.4             |   | 2.33             |   | 37.2           | 89            |      | P |
| Barium    | mg/Kg | 75 - 125               | 72.0             |   | 67.8             |   | 9.3            | 45            |      | P |
| Beryllium | mg/Kg | 75 - 125               | 8.85             |   | 0.71             |   | 9.3            | 88            |      | P |
| Cadmium   | mg/Kg | 75 - 125               | 11.9             |   | 1.94             |   | 9.3            | 107           |      | P |
| Calcium   | mg/Kg | 75 - 125               | 3920             |   | 7240             |   | 46.5           | -7143         |      | P |
| Chromium  | mg/Kg | 75 - 125               | 29.4             |   | 14.1             |   | 18.6           | 82            |      | P |
| Cobalt    | mg/Kg | 75 - 125               | 18.9             |   | 8.56             |   | 9.3            | 111           |      | P |
| Copper    | mg/Kg | 75 - 125               | 60.6             |   | 46.0             |   | 14.0           | 104           |      | P |
| Iron      | mg/Kg | 75 - 125               | 13700            |   | 14400            |   | 140            | -535          |      | P |
| Lead      | mg/Kg | 75 - 125               | 57.4             |   | 9.57             |   | 46.5           | 103           |      | P |
| Magnesium | mg/Kg | 75 - 125               | 4060             |   | 3660             |   | 93.1           | 423           |      | P |
| Manganese | mg/Kg | 75 - 125               | 507              |   | 458              |   | 9.3            | 528           |      | P |
| Nickel    | mg/Kg | 75 - 125               | 43.2             |   | 17.7             |   | 23.3           | 109           |      | P |
| Potassium | mg/Kg | 75 - 125               | 1740             |   | 1380             |   | 470            | 78            |      | P |
| Selenium  | mg/Kg | 75 - 125               | 72.4             |   | 1.02             | U | 93.1           | 78            |      | P |
| Silver    | mg/Kg | 75 - 125               | 3.36             |   | 0.31             | J | 3.5            | 87            |      | P |
| Sodium    | mg/Kg | 75 - 125               | 574              |   | 420              |   | 140            | 110           |      | P |
| Thallium  | mg/Kg | 75 - 125               | 95.1             |   | 2.05             | U | 93.1           | 102           |      | P |
| Vanadium  | mg/Kg | 75 - 125               | 31.6             |   | 19.4             |   | 14.0           | 88            |      | P |
| Zinc      | mg/Kg | 75 - 125               | 44.1             |   | 33.9             |   | 9.3            | 109           |      | P |

**metals**  
**- 5a -**  
**MATRIX SPIKE DUPLICATE SUMMARY**

|                                   |                                                |                   |                 |                                         |                  |
|-----------------------------------|------------------------------------------------|-------------------|-----------------|-----------------------------------------|------------------|
| <b>client:</b>                    | <u>Union Paving &amp; Construction Company</u> | <b>level:</b>     | <u>low</u>      | <b>sdg no.:</b>                         | <u>P4663</u>     |
| <b>contract:</b>                  | <u>UNIO02</u>                                  | <b>lab code:</b>  | <u>CHEM</u>     | <b>case no.:</b>                        | <u>P4663</u>     |
| <b>matrix:</b>                    | <u>Solid</u>                                   | <b>sample id:</b> | <u>P4680-05</u> | <b>client id:</b>                       | <u>BP-F25MSD</u> |
| <b>Percent Solids for Sample:</b> | 88.8                                           | <b>Spiked ID:</b> | P4680-05MSD     | <b>Percent Solids for Spike Sample:</b> | 88.8             |

| Analyte   | Units | Acceptance<br>Limit %R | MSD<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|-----------|-------|------------------------|---------------|---|------------------|---|----------------|---------------|------|---|
| Aluminum  | mg/Kg | 75 - 125               | 7790          |   | 6230             |   | 110            | 1412          |      | P |
| Antimony  | mg/Kg | 75 - 125               | 25.0          |   | 2.56             | U | 43.9           | 57            | N    | P |
| Arsenic   | mg/Kg | 75 - 125               | 41.5          |   | 2.33             |   | 43.9           | 89            |      | P |
| Barium    | mg/Kg | 75 - 125               | 84.3          |   | 67.8             |   | 11.0           | 151           |      | P |
| Beryllium | mg/Kg | 75 - 125               | 10.6          |   | 0.71             |   | 11.0           | 90            |      | P |
| Cadmium   | mg/Kg | 75 - 125               | 14.0          |   | 1.94             |   | 11.0           | 110           |      | P |
| Calcium   | mg/Kg | 75 - 125               | 4650          |   | 7240             |   | 54.9           | -4727         |      | P |
| Chromium  | mg/Kg | 75 - 125               | 34.8          |   | 14.1             |   | 22.0           | 94            |      | P |
| Cobalt    | mg/Kg | 75 - 125               | 22.2          |   | 8.56             |   | 11.0           | 124           |      | P |
| Copper    | mg/Kg | 75 - 125               | 71.3          |   | 46.0             |   | 16.5           | 154           | N    | P |
| Iron      | mg/Kg | 75 - 125               | 15900         |   | 14400            |   | 160            | 925           |      | P |
| Lead      | mg/Kg | 75 - 125               | 67.6          |   | 9.57             |   | 54.9           | 106           |      | P |
| Magnesium | mg/Kg | 75 - 125               | 4810          |   | 3660             |   | 110            | 1039          |      | P |
| Manganese | mg/Kg | 75 - 125               | 597           |   | 458              |   | 11.0           | 1258          |      | P |
| Nickel    | mg/Kg | 75 - 125               | 51.0          |   | 17.7             |   | 27.5           | 121           |      | P |
| Potassium | mg/Kg | 75 - 125               | 2030          |   | 1380             |   | 550            | 119           |      | P |
| Selenium  | mg/Kg | 75 - 125               | 84.4          |   | 1.02             | U | 110            | 77            |      | P |
| Silver    | mg/Kg | 75 - 125               | 3.89          |   | 0.31             | J | 4.1            | 87            |      | P |
| Sodium    | mg/Kg | 75 - 125               | 662           |   | 420              |   | 160            | 151           | N    | P |
| Thallium  | mg/Kg | 75 - 125               | 110           |   | 2.05             | U | 110            | 100           |      | P |
| Vanadium  | mg/Kg | 75 - 125               | 37.3          |   | 19.4             |   | 16.5           | 109           |      | P |
| Zinc      | mg/Kg | 75 - 125               | 52.1          |   | 33.9             |   | 11.0           | 166           | N    | P |



**Metals**  
**- 5b -**  
**POST DIGEST SPIKE SUMMARY**

|                   |                                                |                   |                  |
|-------------------|------------------------------------------------|-------------------|------------------|
| <b>Client:</b>    | <u>Union Paving &amp; Construction Company</u> | <b>SDG No.:</b>   | <u>P4663</u>     |
| <b>Contract:</b>  | <u>UNIO02</u>                                  | <b>Lab Code:</b>  | <u>CHEM</u>      |
| <b>Matrix:</b>    | <u>Solid</u>                                   | <b>Case No.:</b>  | <u>P4663</u>     |
|                   |                                                | <b>SAS No.:</b>   | <u>P4663</u>     |
| <b>Level:</b>     | <u>LOW</u>                                     | <b>Client ID:</b> | <u>BP-F25A</u>   |
| <b>Sample ID:</b> | <u>P4680-05</u>                                | <b>Spiked ID:</b> | <u>P4680-05A</u> |

| Analyte  | Units | Acceptance<br>Limit %R | Spiked<br>Result | C | Sample<br>Result | C | Spike<br>Added | %<br>Recovery | Qual | M |
|----------|-------|------------------------|------------------|---|------------------|---|----------------|---------------|------|---|
| Antimony | mg/Kg | 75 - 125               | 22.5             |   | 2.56             | U | 41.0           | 55            |      | P |
| Copper   | mg/Kg | 75 - 125               | 64.4             |   | 46.0             |   | 15.4           | 120           |      | P |
| Sodium   | mg/Kg | 75 - 125               | 621              |   | 420              |   | 150            | 134           |      | P |
| Zinc     | mg/Kg | 75 - 125               | 47.7             |   | 33.9             |   | 10.2           | 135           |      | P |

**Metals**

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**DUPLICATE SAMPLE SUMMARY**

|                                   |                                                |                     |                 |                                         |                                     |
|-----------------------------------|------------------------------------------------|---------------------|-----------------|-----------------------------------------|-------------------------------------|
| <b>Client:</b>                    | <u>Union Paving &amp; Construction Company</u> | <b>Level:</b>       | <u>LOW</u>      | <b>SDG No.:</b>                         | <u>P4663</u>                        |
| <b>Contract:</b>                  | <u>UNIO02</u>                                  | <b>Lab Code:</b>    | <u>CHEM</u>     | <b>Case No.:</b>                        | <u>P4663</u>                        |
| <b>Matrix:</b>                    | <u>Solid</u>                                   | <b>Sample ID:</b>   | <u>P4663-02</u> | <b>Client ID:</b>                       | <u>TENNANT-PAD-2-3-STOCKPILEDUP</u> |
| <b>Percent Solids for Sample:</b> | 90.9                                           | <b>Duplicate ID</b> | P4663-02DUP     | <b>Percent Solids for Spike Sample:</b> | 90.9                                |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M  |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|----|
| Mercury | mg/Kg | 20               | 0.011         | J | 0.011            | J | 0   |      | CV |

**Metals**

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**DUPLICATE SAMPLE SUMMARY**

|                                   |                                                |                     |                   |                                         |                                     |
|-----------------------------------|------------------------------------------------|---------------------|-------------------|-----------------------------------------|-------------------------------------|
| <b>Client:</b>                    | <u>Union Paving &amp; Construction Company</u> | <b>Level:</b>       | <u>LOW</u>        | <b>SDG No.:</b>                         | <u>P4663</u>                        |
| <b>Contract:</b>                  | <u>UNIO02</u>                                  | <b>Lab Code:</b>    | <u>CHEM</u>       | <b>Case No.:</b>                        | <u>P4663</u>                        |
| <b>Matrix:</b>                    | <u>Solid</u>                                   | <b>Sample ID:</b>   | <u>P4663-02MS</u> | <b>Client ID:</b>                       | <u>TENNANT-PAD-2-3-STOCKPILEMSD</u> |
| <b>Percent Solids for Sample:</b> | 90.9                                           | <b>Duplicate ID</b> | P4663-02MSD       | <b>Percent Solids for Spike Sample:</b> | 90.9                                |

| Analyte | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M  |
|---------|-------|------------------|---------------|---|------------------|---|-----|------|----|
| Mercury | mg/Kg | 20               | 0.32          |   | 0.33             |   | 3   |      | CV |

# Metals

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## DUPLICATE SAMPLE SUMMARY

**Client:** Union Paving & Construction Company      **Level:** LOW      **SDG No.:** P4663  
**Contract:** UNIO02      **Lab Code:** CHEM      **Case No.:** P4663      **SAS No.:** P4663  
**Matrix:** Solid      **Sample ID:** P4680-05      **Client ID:** BP-F25DUP  
**Percent Solids for Sample:** 88.8      **Duplicate ID** P4680-05DUP      **Percent Solids for Spike Sample:** 88.8

| Analyte   | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|-----------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Aluminum  | mg/Kg | 20               | 6230          |   | 5820             |   | 7   |      | P |
| Antimony  | mg/Kg | 20               | 2.56          | U | 2.39             | U |     |      | P |
| Arsenic   | mg/Kg | 20               | 2.33          |   | 2.34             |   | 0   |      | P |
| Barium    | mg/Kg | 20               | 67.8          |   | 63.0             |   | 7   |      | P |
| Beryllium | mg/Kg | 20               | 0.71          |   | 0.66             |   | 6   |      | P |
| Cadmium   | mg/Kg | 20               | 1.94          |   | 1.82             |   | 6   |      | P |
| Calcium   | mg/Kg | 20               | 7240          |   | 6790             |   | 6   |      | P |
| Chromium  | mg/Kg | 20               | 14.1          |   | 13.2             |   | 7   |      | P |
| Cobalt    | mg/Kg | 20               | 8.56          |   | 8.03             |   | 6   |      | P |
| Copper    | mg/Kg | 20               | 46.0          |   | 42.9             |   | 7   |      | P |
| Iron      | mg/Kg | 20               | 14400         |   | 13500            |   | 6   |      | P |
| Lead      | mg/Kg | 20               | 9.57          |   | 8.98             |   | 6   |      | P |
| Magnesium | mg/Kg | 20               | 3660          |   | 3430             |   | 6   |      | P |
| Manganese | mg/Kg | 20               | 458           |   | 428              |   | 7   |      | P |
| Nickel    | mg/Kg | 20               | 17.7          |   | 16.6             |   | 6   |      | P |
| Potassium | mg/Kg | 20               | 1380          |   | 1280             |   | 8   |      | P |
| Selenium  | mg/Kg | 20               | 1.02          | U | 0.95             | U |     |      | P |
| Silver    | mg/Kg | 20               | 0.31          | J | 0.28             | J | 8   |      | P |
| Sodium    | mg/Kg | 20               | 420           |   | 387              |   | 8   |      | P |
| Thallium  | mg/Kg | 20               | 2.05          | U | 1.91             | U |     |      | P |
| Vanadium  | mg/Kg | 20               | 19.4          |   | 18.1             |   | 7   |      | P |
| Zinc      | mg/Kg | 20               | 33.9          |   | 31.8             |   | 6   |      | P |

**Metals**

- 6 -

**DUPLICATE SAMPLE SUMMARY**

**Client:** Union Paving & Construction Company      **Level:** LOW      **SDG No.:** P4663  
**Contract:** UNIO02      **Lab Code:** CHEM      **Case No.:** P4663      **SAS No.:** P4663  
**Matrix:** Solid      **Sample ID:** P4680-05MS      **Client ID:** BP-F25MSD  
**Percent Solids for Sample:** 88.8      **Duplicate ID** P4680-05MSD      **Percent Solids for Spike Sample:** 88.8

| Analyte   | Units | Acceptance Limit | Sample Result | C | Duplicate Result | C | RPD | Qual | M |
|-----------|-------|------------------|---------------|---|------------------|---|-----|------|---|
| Aluminum  | mg/Kg | 20               | 6560          |   | 7790             |   | 17  |      | P |
| Antimony  | mg/Kg | 20               | 21.3          |   | 25.0             |   | 16  |      | P |
| Arsenic   | mg/Kg | 20               | 35.4          |   | 41.5             |   | 16  |      | P |
| Barium    | mg/Kg | 20               | 72.0          |   | 84.3             |   | 16  |      | P |
| Beryllium | mg/Kg | 20               | 8.85          |   | 10.6             |   | 18  |      | P |
| Cadmium   | mg/Kg | 20               | 11.9          |   | 14.0             |   | 16  |      | P |
| Calcium   | mg/Kg | 20               | 3920          |   | 4650             |   | 17  |      | P |
| Chromium  | mg/Kg | 20               | 29.4          |   | 34.8             |   | 17  |      | P |
| Cobalt    | mg/Kg | 20               | 18.9          |   | 22.2             |   | 16  |      | P |
| Copper    | mg/Kg | 20               | 60.6          |   | 71.3             |   | 16  |      | P |
| Iron      | mg/Kg | 20               | 13700         |   | 15900            |   | 15  |      | P |
| Lead      | mg/Kg | 20               | 57.4          |   | 67.6             |   | 16  |      | P |
| Magnesium | mg/Kg | 20               | 4060          |   | 4810             |   | 17  |      | P |
| Manganese | mg/Kg | 20               | 507           |   | 597              |   | 16  |      | P |
| Nickel    | mg/Kg | 20               | 43.2          |   | 51.0             |   | 17  |      | P |
| Potassium | mg/Kg | 20               | 1740          |   | 2030             |   | 15  |      | P |
| Selenium  | mg/Kg | 20               | 72.4          |   | 84.4             |   | 15  |      | P |
| Silver    | mg/Kg | 20               | 3.36          |   | 3.89             |   | 15  |      | P |
| Sodium    | mg/Kg | 20               | 574           |   | 662              |   | 14  |      | P |
| Thallium  | mg/Kg | 20               | 95.1          |   | 110              |   | 15  |      | P |
| Vanadium  | mg/Kg | 20               | 31.6          |   | 37.3             |   | 17  |      | P |
| Zinc      | mg/Kg | 20               | 44.1          |   | 52.1             |   | 17  |      | P |

**Metals**

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**LABORATORY CONTROL SAMPLE SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

| Analyte    | Units | True Value | Result | C | % Recovery | Acceptance Limits | M |
|------------|-------|------------|--------|---|------------|-------------------|---|
| PB164634BS |       |            |        |   |            |                   |   |
| Aluminum   | mg/Kg | 95.2       | 92.5   |   | 97         | 80 - 120          | P |
| Antimony   | mg/Kg | 38.1       | 38.1   |   | 100        | 80 - 120          | P |
| Arsenic    | mg/Kg | 38.1       | 38.3   |   | 100        | 80 - 120          | P |
| Barium     | mg/Kg | 9.5        | 8.91   |   | 94         | 80 - 120          | P |
| Beryllium  | mg/Kg | 9.5        | 8.92   |   | 94         | 80 - 120          | P |
| Cadmium    | mg/Kg | 9.5        | 8.76   |   | 92         | 80 - 120          | P |
| Calcium    | mg/Kg | 47.6       | 47.2   | J | 99         | 80 - 120          | P |
| Chromium   | mg/Kg | 19.0       | 18.2   |   | 96         | 80 - 120          | P |
| Cobalt     | mg/Kg | 9.5        | 8.91   |   | 94         | 80 - 120          | P |
| Copper     | mg/Kg | 14.3       | 14.7   |   | 103        | 80 - 120          | P |
| Iron       | mg/Kg | 140        | 131    |   | 94         | 80 - 120          | P |
| Lead       | mg/Kg | 47.6       | 44.8   |   | 94         | 80 - 120          | P |
| Magnesium  | mg/Kg | 95.2       | 86.7   | J | 91         | 80 - 120          | P |
| Manganese  | mg/Kg | 9.5        | 8.83   |   | 93         | 80 - 120          | P |
| Nickel     | mg/Kg | 23.8       | 22.4   |   | 94         | 80 - 120          | P |
| Potassium  | mg/Kg | 480        | 462    |   | 96         | 80 - 120          | P |
| Selenium   | mg/Kg | 95.2       | 96.6   |   | 102        | 80 - 120          | P |
| Silver     | mg/Kg | 3.6        | 3.44   |   | 96         | 80 - 120          | P |
| Sodium     | mg/Kg | 140        | 158    |   | 113        | 80 - 120          | P |
| Thallium   | mg/Kg | 95.2       | 100    |   | 105        | 80 - 120          | P |
| Vanadium   | mg/Kg | 14.3       | 13.6   |   | 95         | 80 - 120          | P |
| Zinc       | mg/Kg | 9.5        | 9.63   |   | 101        | 80 - 120          | P |

**Metals**

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**LABORATORY CONTROL SAMPLE SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

| Analyte               | Units | True Value | Result | C | %<br>Recovery | Acceptance<br>Limits | M  |
|-----------------------|-------|------------|--------|---|---------------|----------------------|----|
| PB164668BS<br>Mercury | mg/Kg | 0.27       | 0.24   |   | 88            | 80 - 120             | CV |

**Metals**  
**-9 -**  
**ICP SERIAL DILUTIONS**

SAMPLE NO.

TENNANT-PAD-2-3-STOCKPILEL

**Lab Name:** Chemtech Consulting Group **Contract:** UNIO02

**Lab Code:** CHEM **Lb No.:** lb133275 **Lab Sample ID :** P4663-02L **SDG No.:** P4663

**Matrix (soil/water):** Solid **Level (low/med):** LOW

**Concentration Units:** mg/Kg

| Analyte | Initial Sample<br>Result (I) |   | Serial Dilution<br>Result (S) |   | % Differ-<br>ence | Q | M  |
|---------|------------------------------|---|-------------------------------|---|-------------------|---|----|
| Mercury | 0.011                        | J | 0.069                         | U | 100.0             |   | CV |



**Metals**  
**-9 -**  
**ICP SERIAL DILUTIONS**

SAMPLE NO.

BP-F25L

Lab Name: Chemtech Consulting Group

Contract: UNIO02

Lab Code: CHEM Lb No.: lb133323 Lab Sample ID : P4680-05L SDG No.: P4663

Matrix (soil/water): Solid Level (low/med): LOW

Concentration Units: mg/Kg

| Analyte   | Initial Sample Result (I) |   | Serial Dilution Result (S) |   | % Difference | Q | M |
|-----------|---------------------------|---|----------------------------|---|--------------|---|---|
| Aluminum  | 6230                      |   | 7350                       |   | 18           |   | P |
| Antimony  | 2.56                      | U | 12.8                       | U |              |   | P |
| Arsenic   | 2.33                      |   | 2.89                       | J | 24           |   | P |
| Barium    | 67.8                      |   | 79.3                       |   | 17           |   | P |
| Beryllium | 0.71                      |   | 0.94                       | J | 32           |   | P |
| Cadmium   | 1.94                      |   | 1.40                       | J | 28           |   | P |
| Calcium   | 7240                      |   | 8920                       |   | 23           |   | P |
| Chromium  | 14.1                      |   | 17.3                       |   | 23           |   | P |
| Cobalt    | 8.56                      |   | 8.57                       |   | 0            |   | P |
| Copper    | 46.0                      |   | 58.3                       |   | 27           |   | P |
| Iron      | 14400                     |   | 17000                      |   | 18           |   | P |
| Lead      | 9.57                      |   | 9.91                       |   | 4            |   | P |
| Magnesium | 3660                      |   | 4440                       |   | 21           |   | P |
| Manganese | 458                       |   | 572                        |   | 25           |   | P |
| Nickel    | 17.7                      |   | 18.1                       |   | 2            |   | P |
| Potassium | 1380                      |   | 1490                       |   | 9            |   | P |
| Selenium  | 1.02                      | U | 5.12                       | U |              |   | P |
| Silver    | 0.31                      | J | 0.28                       | J | 9            |   | P |
| Sodium    | 420                       |   | 351                        | J | 16           |   | P |
| Thallium  | 2.05                      | U | 10.2                       | U |              |   | P |
| Vanadium  | 19.4                      |   | 23.9                       |   | 24           |   | P |
| Zinc      | 33.9                      |   | 40.0                       |   | 18           |   | P |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Union Paving & Construction Company

**Contract:** UNIO02

**Lab code:** CHEM **Case no.:** P4663 **Sas no.:** P4663

**Sdg no.:** P4663

**Instrument id number:**                      **Method:**                     

**Run number:** LB133275

**Start date:** 11/04/2024 **End date:** 11/04/2024

| Lab sample id. | Client Sample Id        | d/f | Time | Parameter list |
|----------------|-------------------------|-----|------|----------------|
| S0             | S0                      | 1   | 1347 | HG             |
| S0.2           | S0.2                    | 1   | 1349 | HG             |
| S2.5           | S2.5                    | 1   | 1351 | HG             |
| S5             | S5                      | 1   | 1353 | HG             |
| S7.5           | S7.5                    | 1   | 1356 | HG             |
| S10            | S10                     | 1   | 1408 | HG             |
| ICV68          | ICV68                   | 1   | 1411 | HG             |
| ICB68          | ICB68                   | 1   | 1416 | HG             |
| CCV22          | CCV22                   | 1   | 1418 | HG             |
| CCB22          | CCB22                   | 1   | 1423 | HG             |
| CRA            | CRA                     | 1   | 1425 | HG             |
| PB164668BL     | PB164668BL              | 1   | 1432 | HG             |
| PB164668BS     | PB164668BS              | 1   | 1434 | HG             |
| P4663-02MS     | TENNANT-PAD-2-3-STOCKPI | 1   | 1441 | HG             |
| P4663-02MSD    | TENNANT-PAD-2-3-STOCKPI | 1   | 1443 | HG             |
| P4663-04       | RES-BUILDING-PAD-NO-11  | 1   | 1446 | HG             |
| CCV23          | CCV23                   | 1   | 1448 | HG             |
| CCB23          | CCB23                   | 1   | 1453 | HG             |
| P4663-06       | RES-BUILDING-PAD-NO-3   | 1   | 1455 | HG             |
| P4663-08       | RES-BUILDING-PAD-NO-2   | 1   | 1457 | HG             |
| CCV24          | CCV24                   | 1   | 1518 | HG             |
| CCB24          | CCB24                   | 1   | 1520 | HG             |
| P4663-02       | TENNANT-PAD-2-3-STOCKPI | 1   | 1534 | HG             |
| P4663-02DUP    | TENNANT-PAD-2-3-STOCKPI | 1   | 1536 | HG             |
| P4663-02L      | TENNANT-PAD-2-3-STOCKPI | 5   | 1538 | HG             |
| CCV25          | CCV25                   | 1   | 1543 | HG             |
| CCB25          | CCB25                   | 1   | 1545 | HG             |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Union Paving & Construction Company

**Contract:** UNIO02

**Lab code:** CHEM

**Case no.:** P4663

**Sas no.:** P4663

**Sdg no.:** P4663

**Instrument id number:**

**Method:**

**Run number:** LB133296

**Start date:** 11/04/2024

**End date:** 11/04/2024

| Lab sample id. | Client Sample Id        | d/f | Time | Parameter list                                                  |
|----------------|-------------------------|-----|------|-----------------------------------------------------------------|
| S0             | S0                      | 1   | 1657 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1             | S1                      | 1   | 1702 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2             | S2                      | 1   | 1706 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3             | S3                      | 1   | 1710 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4             | S4                      | 1   | 1714 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5             | S5                      | 1   | 1718 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01          | ICV01                   | 1   | 1728 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01        | LLICV01                 | 1   | 1737 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01          | ICB01                   | 1   | 1747 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01          | CRI01                   | 1   | 1752 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01         | ICSA01                  | 1   | 1803 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01        | ICSAB01                 | 1   | 1807 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01          | CCV01                   | 1   | 1811 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01          | CCB01                   | 1   | 1816 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02          | CCV02                   | 1   | 1902 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02          | CCB02                   | 1   | 1907 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03          | CCV03                   | 1   | 1946 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03          | CCB03                   | 1   | 1958 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4663-02       | TENNANT-PAD-2-3-STOCKPI | 1   | 2012 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4663-04       | RES-BUILDING-PAD-NO-11  | 1   | 2017 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4663-06       | RES-BUILDING-PAD-NO-3   | 1   | 2021 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4663-08       | RES-BUILDING-PAD-NO-2   | 1   | 2025 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04          | CCV04                   | 1   | 2107 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04          | CCB04                   | 1   | 2111 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05          | CCV05                   | 1   | 2147 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05          | CCB05                   | 1   | 2151 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

**metals**  
**- 14 -**  
**ANALYSIS RUN LOG**

**Client:** Union Paving & Construction Company

**Contract:** UNIO02

**Lab code:** CHEM

**Case no.:** P4663

**Sas no.:** P4663

**Sdg no.:** P4663

**Instrument id number:**

**Method:**

**Run number:** LB133323

**Start date:** 11/06/2024

**End date:** 11/07/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list                                                  |
|----------------|------------------|-----|------|-----------------------------------------------------------------|
| S0             | S0               | 1   | 1709 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1             | S1               | 1   | 1713 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2             | S2               | 1   | 1717 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3             | S3               | 1   | 1722 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4             | S4               | 1   | 1726 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5             | S5               | 1   | 1730 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01          | ICV01            | 1   | 1734 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01        | LLICV01          | 1   | 1738 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01          | ICB01            | 1   | 1743 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01          | CRI01            | 1   | 1804 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01         | ICSA01           | 1   | 1808 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01        | ICSAB01          | 1   | 1813 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01          | CCV01            | 1   | 1823 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01          | CCB01            | 1   | 1827 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02          | CCV02            | 1   | 1839 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02          | CCB02            | 1   | 1844 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4680-05DUP    | BP-F25DUP        | 1   | 1928 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03          | CCV03            | 1   | 1932 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03          | CCB03            | 1   | 1936 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4680-05L      | BP-F25L          | 5   | 1940 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4680-05MS     | BP-F25MS         | 1   | 1944 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4680-05MSD    | BP-F25MSD        | 1   | 1948 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| P4680-05A      | BP-F25A          | 1   | 1952 | Cu,Na,Sb,Zn                                                     |
| CCV04          | CCV04            | 1   | 2022 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04          | CCB04            | 1   | 2026 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05          | CCV05            | 1   | 2113 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05          | CCB05            | 1   | 2117 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06          | CCV06            | 1   | 2211 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB06          | CCB06            | 1   | 2215 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07          | CCV07            | 1   | 2303 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07          | CCB07            | 1   | 2307 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV08          | CCV08            | 1   | 2359 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB08          | CCB08            | 1   | 0003 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV09          | CCV09            | 1   | 0053 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB09          | CCB09            | 1   | 0057 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV10          | CCV10            | 1   | 0149 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB10          | CCB10            | 1   | 0153 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |

**metals**  
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**ANALYSIS RUN LOG**

**Client:** Union Paving & Construction Company

**Contract:** UNIO02

**Lab code:** CHEM

**Case no.:** P4663

**Sas no.:** P4663

**Sdg no.:** P4663

**Instrument id number:**

**Method:**

**Run number:** LB133344

**Start date:** 11/07/2024

**End date:** 11/08/2024

| Lab sample id. | Client Sample Id | d/f | Time | Parameter list                                                  |
|----------------|------------------|-----|------|-----------------------------------------------------------------|
| S0             | S0               | 1   | 1323 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S1             | S1               | 1   | 1328 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S2             | S2               | 1   | 1332 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S3             | S3               | 1   | 1336 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S4             | S4               | 1   | 1340 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| S5             | S5               | 1   | 1345 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICV01          | ICV01            | 1   | 1349 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| LLICV01        | LLICV01          | 1   | 1423 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICB01          | ICB01            | 1   | 1438 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CRI01          | CRI01            | 1   | 1442 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSA01         | ICSA01           | 1   | 1447 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| ICSAB01        | ICSAB01          | 1   | 1451 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV01          | CCV01            | 1   | 1501 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB01          | CCB01            | 1   | 1505 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV02          | CCV02            | 1   | 1553 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB02          | CCB02            | 1   | 1558 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV03          | CCV03            | 1   | 1645 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB03          | CCB03            | 1   | 1649 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV04          | CCV04            | 1   | 1756 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB04          | CCB04            | 1   | 1804 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV05          | CCV05            | 1   | 1832 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB05          | CCB05            | 1   | 1837 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV06          | CCV06            | 1   | 1908 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB06          | CCB06            | 1   | 1912 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV07          | CCV07            | 1   | 1958 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB07          | CCB07            | 1   | 2002 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV08          | CCV08            | 1   | 2058 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB08          | CCB08            | 1   | 2102 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV09          | CCV09            | 1   | 2151 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB09          | CCB09            | 1   | 2155 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV10          | CCV10            | 1   | 2252 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB10          | CCB10            | 1   | 2256 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV11          | CCV11            | 1   | 2343 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB11          | CCB11            | 1   | 2347 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164634BL     | PB164634BL       | 1   | 0008 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| PB164634BS     | PB164634BS       | 1   | 0013 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV12          | CCV12            | 1   | 0039 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB12          | CCB12            | 1   | 0043 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCV13          | CCV13            | 1   | 0057 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |
| CCB13          | CCB13            | 1   | 0101 | Ag,Al,As,Ba,Be,Ca,Cd,Co,Cr,Cu,Fe,K,Mg,Mn,Na,Ni,Pb,Sb,Se,Tl,V,Zn |



# METAL PREPARATION & INSTRUMENT DATA

**Metals**

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**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

**Instrument ID:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |            |            |           |           |
|-----------|-------------------------|------------------------------------------|------------|------------|-----------|-----------|
|           |                         | Al                                       | Ca         | Fe         | Mg        | Ag        |
| Aluminum  | 396.100                 | 0.0000000                                | -0.0002060 | 0.0000000  | 0.0000000 | 0.0000000 |
| Antimony  | 206.833                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                                | 0.0000000  | -0.0000440 | 0.0000000 | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000  | 0.0000930  | 0.0000000 | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000  | -0.0075970 | 0.0000000 | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                                | 0.0000000  | 0.0007850  | 0.0000000 | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Lead      | 220.353                 | -0.0000920                               | 0.0000000  | 0.0000380  | 0.0000000 | 0.0000000 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000  | -0.0001440 | 0.0000000 | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000  | -0.0001490 | 0.0000000 | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                                | 0.0000000  | 0.0000000  | 0.0000000 | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0000000  | 0.0001050  | 0.0000000 | 0.0000000 |

**Metals**

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**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

**Instrument ID:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |           |           |           |            |
|-----------|-------------------------|------------------------------------------|-----------|-----------|-----------|------------|
|           |                         | As                                       | Ba        | Be        | Cd        | Co         |
| Aluminum  | 396.100                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Antimony  | 206.833                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Arsenic   | 193.759                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0002870  |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Copper    | 224.700                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0009530  |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | -0.0039600 |
| Lead      | 220.353                 | 0.0000000                                | 0.0003170 | 0.0000000 | 0.0000000 | 0.0000000  |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | -0.0003570 |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0054900  |
| Vanadium  | 292.402                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |
| Zinc      | 213.800                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000 | 0.0000000  |



**Metals**

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**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

**Instrument ID:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Interelement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interelement Correction Factors For: |           |           |            |            |
|-----------|-------------------------|------------------------------------------|-----------|-----------|------------|------------|
|           |                         | Cr                                       | Cu        | K         | Mn         | Mo         |
| Aluminum  | 396.100                 | 0.0000000                                | 0.0000000 | 0.0000590 | 0.0000000  | 0.0396900  |
| Antimony  | 206.833                 | 0.0122000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Arsenic   | 193.759                 | -0.0029000                               | 0.0000000 | 0.0000000 | 0.0000000  | 0.0004900  |
| Barium    | 493.409                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Beryllium | 234.861                 | 0.0000000                                | 0.0000000 | 0.0000000 | -0.0000710 | -0.0003400 |
| Cadmium   | 226.502                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Calcium   | 373.690                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Chromium  | 267.716                 | 0.0000000                                | 0.0000000 | 0.0000070 | 0.0002200  | 0.0000000  |
| Cobalt    | 228.616                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | -0.0007860 |
| Copper    | 224.700                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0006510  | 0.0020500  |
| Iron      | 240.488                 | 0.0000000                                | 0.0000000 | 0.0000730 | 0.0000000  | -0.0015250 |
| Lead      | 220.353                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0001400  | -0.0008600 |
| Magnesium | 279.079                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Manganese | 257.610                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Nickel    | 231.604                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Potassium | 766.490                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Selenium  | 196.090                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0007460  | 0.0000000  |
| Silver    | 328.068                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | -0.0000120 |
| Sodium    | 589.592                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0000000  | 0.0000000  |
| Thallium  | 190.856                 | 0.0000000                                | 0.0000000 | 0.0000000 | 0.0017400  | -0.0100400 |
| Vanadium  | 292.402                 | -0.0025100                               | 0.0000000 | 0.0000000 | 0.0000000  | -0.0072000 |
| Zinc      | 213.800                 | 0.0000000                                | 0.0009010 | 0.0000000 | 0.0000000  | 0.0000000  |

**Metals**

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**ICP INTERELEMEN CORRECTION FACTORS**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

**Instrument ID:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Interement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |            |           |           |           |
|-----------|-------------------------|----------------------------------------|------------|-----------|-----------|-----------|
|           |                         | Na                                     | Ni         | Pb        | Sb        | Se        |
| Aluminum  | 396.100                 | 0.0000000                              | 0.0000000  | 0.0012800 | 0.0000000 | 0.0000000 |
| Antimony  | 206.833                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                              | -0.0047000 | 0.0036100 | 0.0000000 | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                              | -0.0017000 | 0.0000000 | 0.0000000 | 0.0000000 |
| Lead      | 220.353                 | 0.0000000                              | 0.0006580  | 0.0000000 | 0.0000000 | 0.0001290 |
| Magnesium | 279.079                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                              | 0.0000000  | 0.0003330 | 0.0000000 | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000 | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                              | 0.0067600  | 0.0000000 | 0.0000000 | 0.0000000 |

**Metals**

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**ICP INTERELEMENT CORRECTION FACTORS**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Case No.:** P4663

**SAS No.:** P4663

**Instrument ID:** \_\_\_\_\_

**Date:** \_\_\_\_\_

**Interement Correction Factors (apparent ppb analyte/ppm interferent )**

| Analyte   | Wave-<br>Length<br>(nm) | ICP Interement Correction Factors For: |            |           |            |           |
|-----------|-------------------------|----------------------------------------|------------|-----------|------------|-----------|
|           |                         | Sn                                     | Ti         | Tl        | V          | Zn        |
| Aluminum  | 396.100                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Antimony  | 206.833                 | -0.0035600                             | -0.0007970 | 0.0000000 | -0.0018900 | 0.0000000 |
| Arsenic   | 193.759                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Barium    | 493.409                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Beryllium | 234.861                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Cadmium   | 226.502                 | 0.0000000                              | 0.0000630  | 0.0001280 | 0.0000000  | 0.0000000 |
| Calcium   | 373.690                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Chromium  | 267.716                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0001110  | 0.0000000 |
| Cobalt    | 228.616                 | 0.0000000                              | 0.0018800  | 0.0000000 | 0.0000000  | 0.0000000 |
| Copper    | 224.700                 | 0.0000000                              | 0.0003840  | 0.0000000 | 0.0000000  | 0.0000000 |
| Iron      | 240.488                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Lead      | 220.353                 | 0.0000000                              | -0.0003610 | 0.0000000 | 0.0000000  | 0.0000000 |
| Magnesium | 279.079                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Manganese | 257.610                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Nickel    | 231.604                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Potassium | 766.490                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Selenium  | 196.090                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Silver    | 328.068                 | 0.0000000                              | -0.0007420 | 0.0000000 | 0.0000000  | 0.0000000 |
| Sodium    | 589.592                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |
| Thallium  | 190.856                 | 0.0000000                              | -0.0039700 | 0.0000000 | -0.0115600 | 0.0000000 |
| Vanadium  | 292.402                 | 0.0000000                              | 0.0005320  | 0.0000000 | 0.0000000  | 0.0000000 |
| Zinc      | 213.800                 | 0.0000000                              | 0.0000000  | 0.0000000 | 0.0000000  | 0.0000000 |

## LAB CHRONICLE

|                 |                                     |                   |                       |
|-----------------|-------------------------------------|-------------------|-----------------------|
| <b>OrderID:</b> | P4663                               | <b>OrderDate:</b> | 10/31/2024 3:05:00 PM |
| <b>Client:</b>  | Union Paving & Construction Company | <b>Project:</b>   | Rt. 10 Whippany       |
| <b>Contact:</b> | Gregory Butler                      | <b>Location:</b>  | K41,VOA Ref. #2 Soil  |

| LabID           | ClientID                              | Matrix      | Test           | Method | Sample Date     | Prep Date | Anal Date | Received        |
|-----------------|---------------------------------------|-------------|----------------|--------|-----------------|-----------|-----------|-----------------|
| <b>P4663-02</b> | <b>TENNANT-PAD-2-3-ST<br/>OCKPILE</b> | <b>SOIL</b> |                |        | <b>10/31/24</b> |           |           | <b>10/31/24</b> |
|                 |                                       |             | Mercury        | 7471B  |                 | 11/04/24  | 11/04/24  |                 |
|                 |                                       |             | Metals ICP-TAL | 6010D  |                 | 11/03/24  | 11/04/24  |                 |
| <b>P4663-04</b> | <b>RES-BUILDING-PAD-N<br/>O-11</b>    | <b>SOIL</b> |                |        | <b>10/31/24</b> |           |           | <b>10/31/24</b> |
|                 |                                       |             | Mercury        | 7471B  |                 | 11/04/24  | 11/04/24  |                 |
|                 |                                       |             | Metals ICP-TAL | 6010D  |                 | 11/03/24  | 11/04/24  |                 |
| <b>P4663-06</b> | <b>RES-BUILDING-PAD-N<br/>O-3</b>     | <b>SOIL</b> |                |        | <b>10/31/24</b> |           |           | <b>10/31/24</b> |
|                 |                                       |             | Mercury        | 7471B  |                 | 11/04/24  | 11/04/24  |                 |
|                 |                                       |             | Metals ICP-TAL | 6010D  |                 | 11/03/24  | 11/04/24  |                 |
| <b>P4663-08</b> | <b>RES-BUILDING-PAD-N<br/>O-2</b>     | <b>SOIL</b> |                |        | <b>10/31/24</b> |           |           | <b>10/31/24</b> |
|                 |                                       |             | Mercury        | 7471B  |                 | 11/04/24  | 11/04/24  |                 |
|                 |                                       |             | Metals ICP-TAL | 6010D  |                 | 11/03/24  | 11/04/24  |                 |



# METAL PREPARATION & ANALYICAL SUMMARY

**Metals**

- 13 -

**SAMPLE PREPARATION SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Method:**

**Case No.:** P4663

**SAS No.:** P4663

| Sample ID                     | Client ID                 | Sample Type | Matrix | Prep Date  | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|-------------------------------|---------------------------|-------------|--------|------------|------------------------|--------------------------|----------------|
| <b>Batch Number: PB164634</b> |                           |             |        |            |                        |                          |                |
| P4663-02                      | TENNANT-PAD-2-3-STOCKPILE | SAM         | SOLID  | 11/03/2024 | 2.13                   | 100.0                    | 90.90          |
| P4663-04                      | RES-BUILDING-PAD-NO-11    | SAM         | SOLID  | 11/03/2024 | 2.19                   | 100.0                    | 91.70          |
| P4663-06                      | RES-BUILDING-PAD-NO-3     | SAM         | SOLID  | 11/03/2024 | 2.49                   | 100.0                    | 91.20          |
| P4663-08                      | RES-BUILDING-PAD-NO-2     | SAM         | SOLID  | 11/03/2024 | 2.42                   | 100.0                    | 91.30          |
| P4680-05DUP                   | BP-F25DUP                 | DUP         | SOLID  | 11/03/2024 | 2.36                   | 100.0                    | 88.80          |
| P4680-05MS                    | BP-F25MS                  | MS          | SOLID  | 11/03/2024 | 2.42                   | 100.0                    | 88.80          |
| P4680-05MSD                   | BP-F25MSD                 | MSD         | SOLID  | 11/03/2024 | 2.05                   | 100.0                    | 88.80          |
| PB164634BL                    | PB164634BL                | MB          | SOLID  | 11/03/2024 | 2.10                   | 100.0                    | 100.00         |
| PB164634BS                    | PB164634BS                | LCS         | SOLID  | 11/03/2024 | 2.10                   | 100.0                    | 100.00         |

**Metals**

- 13 -

**SAMPLE PREPARATION SUMMARY**

**Client:** Union Paving & Construction Company

**SDG No.:** P4663

**Contract:** UNIO02

**Lab Code:** CHEM

**Method:**

**Case No.:** P4663

**SAS No.:** P4663

| Sample ID                     | Client ID                    | Sample Type | Matrix | Prep Date  | Initial Sample Size(g) | Final Sample Volume (mL) | Percent Solids |
|-------------------------------|------------------------------|-------------|--------|------------|------------------------|--------------------------|----------------|
| <b>Batch Number: PB164668</b> |                              |             |        |            |                        |                          |                |
| P4663-02                      | TENNANT-PAD-2-3-STOCKPILE    | SAM         | SOLID  | 11/04/2024 | 0.56                   | 35.0                     | 90.90          |
| P4663-02DUP                   | TENNANT-PAD-2-3-STOCKPILEDUP | DUP         | SOLID  | 11/04/2024 | 0.55                   | 35.0                     | 90.90          |
| P4663-02MS                    | TENNANT-PAD-2-3-STOCKPILEMS  | MS          | SOLID  | 11/04/2024 | 0.59                   | 35.0                     | 90.90          |
| P4663-02MSD                   | TENNANT-PAD-2-3-STOCKPILEMSD | MSD         | SOLID  | 11/04/2024 | 0.55                   | 35.0                     | 90.90          |
| P4663-04                      | RES-BUILDING-PAD-NO-11       | SAM         | SOLID  | 11/04/2024 | 0.50                   | 35.0                     | 91.70          |
| P4663-06                      | RES-BUILDING-PAD-NO-3        | SAM         | SOLID  | 11/04/2024 | 0.59                   | 35.0                     | 91.20          |
| P4663-08                      | RES-BUILDING-PAD-NO-2        | SAM         | SOLID  | 11/04/2024 | 0.56                   | 35.0                     | 91.30          |
| PB164668BL                    | PB164668BL                   | MB          | SOLID  | 11/04/2024 | 0.56                   | 35.0                     | 100.00         |
| PB164668BS                    | PB164668BS                   | LCS         | SOLID  | 11/04/2024 | 0.52                   | 35.0                     | 100.00         |

Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133275**

|                  |                                                 |              |                      |
|------------------|-------------------------------------------------|--------------|----------------------|
| Review By        | mohan                                           | Review On    | 11/6/2024 1:07:46 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/6/2024 1:08:59 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                      |
| ICAL Standard    | MP83017,MP83018,MP83019,MP83020,MP83021,MP83022 |              |                      |
| ICV Standard     | MP83023                                         |              |                      |
| CCV Standard     | MP83025                                         |              |                      |
| ICSA Standard    |                                                 |              |                      |
| CRI Standard     | MP83027                                         |              |                      |
| LCS Standard     |                                                 |              |                      |
| Chk Standard     | MP83024,MP83026,,,MP83028,MP83030               |              |                      |

| Sr# | SampleId    | ClientID          | QcType   | Date           | Comment | Operator | Status |
|-----|-------------|-------------------|----------|----------------|---------|----------|--------|
| 1   | S0          | S0                | CAL1     | 11/04/24 13:47 |         | Mohan    | OK     |
| 2   | S0.2        | S0.2              | CAL2     | 11/04/24 13:49 |         | Mohan    | OK     |
| 3   | S2.5        | S2.5              | CAL3     | 11/04/24 13:51 |         | Mohan    | OK     |
| 4   | S5          | S5                | CAL4     | 11/04/24 13:53 |         | Mohan    | OK     |
| 5   | S7.5        | S7.5              | CAL5     | 11/04/24 13:56 |         | Mohan    | OK     |
| 6   | S10         | S10               | CAL6     | 11/04/24 14:08 |         | Mohan    | OK     |
| 7   | ICV68       | ICV68             | ICV      | 11/04/24 14:11 |         | Mohan    | OK     |
| 8   | ICB68       | ICB68             | ICB      | 11/04/24 14:16 |         | Mohan    | OK     |
| 9   | CCV22       | CCV22             | CCV      | 11/04/24 14:18 |         | Mohan    | OK     |
| 10  | CCB22       | CCB22             | CCB      | 11/04/24 14:23 |         | Mohan    | OK     |
| 11  | CRA         | CRA               | CRDL     | 11/04/24 14:25 |         | Mohan    | OK     |
| 12  | HighStd     | HighStd           | HIGH STD | 11/04/24 14:27 |         | Mohan    | OK     |
| 13  | ChkStd      | ChkStd            | SAM      | 11/04/24 14:30 |         | Mohan    | OK     |
| 14  | PB164668BL  | PB164668BL        | MB       | 11/04/24 14:32 |         | Mohan    | OK     |
| 15  | PB164668BS  | PB164668BS        | LCS      | 11/04/24 14:34 |         | Mohan    | OK     |
| 16  | P4663-02MS  | TENNANT-PAD-2-3-S | MS       | 11/04/24 14:41 |         | Mohan    | OK     |
| 17  | P4663-02MSD | TENNANT-PAD-2-3-S | MSD      | 11/04/24 14:43 |         | Mohan    | OK     |
| 18  | P4663-04    | RES-BUILDING-PAD- | SAM      | 11/04/24 14:46 |         | Mohan    | OK     |



Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133275**

|                  |                                                 |              |                      |
|------------------|-------------------------------------------------|--------------|----------------------|
| Review By        | mohan                                           | Review On    | 11/6/2024 1:07:46 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/6/2024 1:08:59 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                      |
| ICAL Standard    | MP83017,MP83018,MP83019,MP83020,MP83021,MP83022 |              |                      |
| ICV Standard     | MP83023                                         |              |                      |
| CCV Standard     | MP83025                                         |              |                      |
| ICSA Standard    |                                                 |              |                      |
| CRI Standard     | MP83027                                         |              |                      |
| LCS Standard     |                                                 |              |                      |
| Chk Standard     | MP83024,MP83026,,,MP83028,MP83030               |              |                      |

|    |          |                   |     |                |  |       |    |
|----|----------|-------------------|-----|----------------|--|-------|----|
| 19 | CCV23    | CCV23             | CCV | 11/04/24 14:48 |  | Mohan | OK |
| 20 | CCB23    | CCB23             | CCB | 11/04/24 14:53 |  | Mohan | OK |
| 21 | P4663-06 | RES-BUILDING-PAD- | SAM | 11/04/24 14:55 |  | Mohan | OK |
| 22 | P4663-08 | RES-BUILDING-PAD- | SAM | 11/04/24 14:57 |  | Mohan | OK |
| 23 | P4667-01 | BP-F-6            | SAM | 11/04/24 15:00 |  | Mohan | OK |
| 24 | P4667-05 | BP-F-5            | SAM | 11/04/24 15:02 |  | Mohan | OK |
| 25 | P4667-09 | TP-10             | SAM | 11/04/24 15:04 |  | Mohan | OK |
| 26 | P4667-13 | BP-F-7            | SAM | 11/04/24 15:06 |  | Mohan | OK |
| 27 | P4675-01 | COMP-1            | SAM | 11/04/24 15:09 |  | Mohan | OK |
| 28 | P4675-02 | COMP-2            | SAM | 11/04/24 15:11 |  | Mohan | OK |
| 29 | P4675-03 | COMP-3            | SAM | 11/04/24 15:13 |  | Mohan | OK |
| 30 | P4675-04 | COMP-4            | SAM | 11/04/24 15:16 |  | Mohan | OK |
| 31 | CCV24    | CCV24             | CCV | 11/04/24 15:18 |  | Mohan | OK |
| 32 | CCB24    | CCB24             | CCB | 11/04/24 15:20 |  | Mohan | OK |
| 33 | P4675-05 | COMP-5            | SAM | 11/04/24 15:22 |  | Mohan | OK |
| 34 | P4675-06 | COMP-6            | SAM | 11/04/24 15:25 |  | Mohan | OK |
| 35 | P4679-01 | MH-1              | SAM | 11/04/24 15:27 |  | Mohan | OK |
| 36 | P4680-01 | BP-F26            | SAM | 11/04/24 15:29 |  | Mohan | OK |
| 37 | P4680-05 | BP-F25            | SAM | 11/04/24 15:31 |  | Mohan | OK |
| 38 | P4663-02 | TENNANT-PAD-2-3-S | SAM | 11/04/24 15:34 |  | Mohan | OK |

Instrument ID: CV1

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133275**

| Review By     | mohan                                           | Review On    | 11/6/2024 1:07:46 AM |
|---------------|-------------------------------------------------|--------------|----------------------|
| Supervise By  | jaswal                                          | Supervise On | 11/6/2024 1:08:59 AM |
| STD. NAME     | STD REF.#                                       |              |                      |
| ICAL Standard | MP83017,MP83018,MP83019,MP83020,MP83021,MP83022 |              |                      |
| ICV Standard  | MP83023                                         |              |                      |
| CCV Standard  | MP83025                                         |              |                      |
| ICSA Standard |                                                 |              |                      |
| CRI Standard  | MP83027                                         |              |                      |
| LCS Standard  |                                                 |              |                      |
| Chk Standard  | MP83024,MP83026,,,MP83028,MP83030               |              |                      |

|    |             |                   |     |                |  |       |    |
|----|-------------|-------------------|-----|----------------|--|-------|----|
| 39 | P4663-02DUP | TENNANT-PAD-2-3-S | DUP | 11/04/24 15:36 |  | Mohan | OK |
| 40 | P4663-02L   | TENNANT-PAD-2-3-S | SD  | 11/04/24 15:38 |  | Mohan | OK |
| 41 | P4663-02A   | TENNANT-PAD-2-3-S | PS  | 11/04/24 15:41 |  | Mohan | OK |
| 42 | CCV25       | CCV25             | CCV | 11/04/24 15:43 |  | Mohan | OK |
| 43 | CCB25       | CCB25             | CCB | 11/04/24 15:45 |  | Mohan | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133296**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | jaswal                                          | Review On    | 11/6/2024 3:15:05 AM  |
| Supervise By     | kareem                                          | Supervise On | 11/7/2024 12:42:46 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

| Sr# | SampleId | ClientID         | QcType | Date           | Comment | Operator | Status |
|-----|----------|------------------|--------|----------------|---------|----------|--------|
| 1   | S0       | S0               | CAL1   | 11/04/24 16:57 |         | Kareem   | OK     |
| 2   | S1       | S1               | CAL2   | 11/04/24 17:02 |         | Kareem   | OK     |
| 3   | S2       | S2               | CAL3   | 11/04/24 17:06 |         | Kareem   | OK     |
| 4   | S3       | S3               | CAL4   | 11/04/24 17:10 |         | Kareem   | OK     |
| 5   | S4       | S4               | CAL5   | 11/04/24 17:14 |         | Kareem   | OK     |
| 6   | S5       | S5               | CAL6   | 11/04/24 17:18 |         | Kareem   | OK     |
| 7   | ICV01    | ICV01            | ICV    | 11/04/24 17:28 |         | Kareem   | OK     |
| 8   | LLICV01  | LLICV01          | LLICV  | 11/04/24 17:37 |         | Kareem   | OK     |
| 9   | ICB01    | ICB01            | ICB    | 11/04/24 17:47 |         | Kareem   | OK     |
| 10  | CRI01    | CRI01            | CRDL   | 11/04/24 17:52 |         | Kareem   | OK     |
| 11  | ICSA01   | ICSA01           | ICSA   | 11/04/24 18:03 |         | Kareem   | OK     |
| 12  | ICSAB01  | ICSAB01          | ICSAB  | 11/04/24 18:07 |         | Kareem   | OK     |
| 13  | CCV01    | CCV01            | CCV    | 11/04/24 18:11 |         | Kareem   | OK     |
| 14  | CCB01    | CCB01            | CCB    | 11/04/24 18:16 |         | Kareem   | OK     |
| 15  | P4640-01 | MH-3             | SAM    | 11/04/24 18:20 |         | Kareem   | OK     |
| 16  | P4643-01 | BP-F9-ADDITIONAL | SAM    | 11/04/24 18:25 |         | Kareem   | OK     |
| 17  | P4643-05 | BP-F8            | SAM    | 11/04/24 18:29 |         | Kareem   | OK     |
| 18  | P4643-09 | TP-9             | SAM    | 11/04/24 18:33 |         | Kareem   | OK     |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133296**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | jaswal                                          | Review On    | 11/6/2024 3:15:05 AM  |
| Supervise By     | kareem                                          | Supervise On | 11/7/2024 12:42:46 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |             |              |     |                |                                                       |        |          |
|----|-------------|--------------|-----|----------------|-------------------------------------------------------|--------|----------|
| 19 | P4645-01    | Z-02-WC      | SAM | 11/04/24 18:37 |                                                       | Kareem | OK       |
| 20 | P4645-01DUP | Z-02-WCDUP   | DUP | 11/04/24 18:42 |                                                       | Kareem | OK       |
| 21 | P4645-01L   | Z-02-WCL     | SD  | 11/04/24 18:46 |                                                       | Kareem | OK       |
| 22 | P4645-01MS  | Z-02-WCMS    | MS  | 11/04/24 18:50 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 23 | P4645-01MSD | Z-02-WCMSD   | MSD | 11/04/24 18:54 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 24 | P4645-01A   | Z-02-WCA     | PS  | 11/04/24 18:58 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 25 | CCV02       | CCV02        | CCV | 11/04/24 19:02 |                                                       | Kareem | OK       |
| 26 | CCB02       | CCB02        | CCB | 11/04/24 19:07 |                                                       | Kareem | OK       |
| 27 | PB164563BL  | PB164563BL   | MB  | 11/04/24 19:11 | NOT USE                                               | Kareem | Not Ok   |
| 28 | PB164563BS  | PB164563BS   | LCS | 11/04/24 19:15 | NOT USE                                               | Kareem | Not Ok   |
| 29 | P4615-03    | B-131-3-SB01 | SAM | 11/04/24 19:19 |                                                       | Kareem | OK       |
| 30 | P4615-02    | B-131-2-SB01 | SAM | 11/04/24 19:23 |                                                       | Kareem | OK       |
| 31 | P4397-04    | WB-301-SW    | SAM | 11/04/24 19:28 | Na high                                               | Kareem | Dilution |
| 32 | P4397-04DUP | WB-301-SWDUP | DUP | 11/04/24 19:32 | Na high                                               | Kareem | Dilution |
| 33 | P4397-04L   | WB-301-SWL   | SD  | 11/04/24 19:37 | Na high                                               | Kareem | Dilution |
| 34 | P4397-04MS  | WB-301-SWMS  | MS  | 11/04/24 19:41 | Na high                                               | Kareem | Dilution |
| 35 | CCV03       | CCV03        | CCV | 11/04/24 19:46 |                                                       | Kareem | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133296**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | jaswal                                          | Review On    | 11/6/2024 3:15:05 AM  |
| Supervise By     | kareem                                          | Supervise On | 11/7/2024 12:42:46 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |               |                   |          |                |                                                       |        |          |
|----|---------------|-------------------|----------|----------------|-------------------------------------------------------|--------|----------|
| 36 | CCB03         | CCB03             | CCB      | 11/04/24 19:58 |                                                       | Kareem | OK       |
| 37 | P4397-04MSD   | WB-301-SWMSD      | MSD      | 11/04/24 20:04 | Na high                                               | Kareem | Dilution |
| 38 | P4397-04A     | WB-301-SWA        | PS       | 11/04/24 20:08 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 39 | P4663-02      | TENNANT-PAD-2-3-S | SAM      | 11/04/24 20:12 |                                                       | Kareem | OK       |
| 40 | P4663-04      | RES-BUILDING-PAD- | SAM      | 11/04/24 20:17 |                                                       | Kareem | OK       |
| 41 | P4663-06      | RES-BUILDING-PAD- | SAM      | 11/04/24 20:21 |                                                       | Kareem | OK       |
| 42 | P4663-08      | RES-BUILDING-PAD- | SAM      | 11/04/24 20:25 |                                                       | Kareem | OK       |
| 43 | LR1           | LR1               | HIGH STD | 11/04/24 20:33 |                                                       | Kareem | OK       |
| 44 | LR2           | LR2               | HIGH STD | 11/04/24 20:38 |                                                       | Kareem | OK       |
| 45 | PB164522TB    | PB164522TB        | MB       | 11/04/24 20:44 |                                                       | Kareem | OK       |
| 46 | PB164564BL    | PB164564BL        | MB       | 11/04/24 20:48 |                                                       | Kareem | OK       |
| 47 | CCV04         | CCV04             | CCV      | 11/04/24 21:07 |                                                       | Kareem | OK       |
| 48 | CCB04         | CCB04             | CCB      | 11/04/24 21:11 |                                                       | Kareem | OK       |
| 49 | PB164564BS    | PB164564BS        | LCS      | 11/04/24 21:16 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 50 | P4397-04DL    | WB-301-SWDL       | SAM      | 11/04/24 21:21 | 10X for Na                                            | Kareem | Confirms |
| 51 | P4397-04DUPDL | WB-301-SWDUPDL    | DUP      | 11/04/24 21:25 | 10X for Na                                            | Kareem | Confirms |
| 52 | P4397-04LDL   | WB-301-SWLDL      | SD       | 11/04/24 21:29 | 10X for Na                                            | Kareem | Confirms |
| 53 | P4397-04MSDL  | WB-301-SWMSDL     | MS       | 11/04/24 21:34 | 10X for Na                                            | Kareem | Confirms |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133296**

|              |        |              |                       |
|--------------|--------|--------------|-----------------------|
| Review By    | jaswal | Review On    | 11/6/2024 3:15:05 AM  |
| Supervise By | kareem | Supervise On | 11/7/2024 12:42:46 AM |

| STD. NAME     | STD REF.#                                       |
|---------------|-------------------------------------------------|
| ICAL Standard | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |
| ICV Standard  | MP83085                                         |
| CCV Standard  | MP83088                                         |
| ICSA Standard | MP83086,MP83087                                 |
| CRI Standard  | MP83084                                         |
| LCS Standard  |                                                 |
| Chk Standard  | MP83091,MP83092                                 |

|    |               |                |     |                |            |        |          |
|----|---------------|----------------|-----|----------------|------------|--------|----------|
| 54 | P4397-04MSDDL | WB-301-SWMSDDL | MSD | 11/04/24 21:38 | 10X for Na | Kareem | Confirms |
| 55 | P4397-04ADL   | WB-301-SWADL   | PS  | 11/04/24 21:42 | Not used   | Kareem | Not Ok   |
| 56 | CCV05         | CCV05          | CCV | 11/04/24 21:47 |            | Kareem | OK       |
| 57 | CCB05         | CCB05          | CCB | 11/04/24 21:51 |            | Kareem | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

| Sr# | SampleId | ClientID     | QcType | Date           | Comment | Operator | Status |
|-----|----------|--------------|--------|----------------|---------|----------|--------|
| 1   | S0       | S0           | CAL1   | 11/06/24 17:09 |         | Kareem   | OK     |
| 2   | S1       | S1           | CAL2   | 11/06/24 17:13 |         | Kareem   | OK     |
| 3   | S2       | S2           | CAL3   | 11/06/24 17:17 |         | Kareem   | OK     |
| 4   | S3       | S3           | CAL4   | 11/06/24 17:22 |         | Kareem   | OK     |
| 5   | S4       | S4           | CAL5   | 11/06/24 17:26 |         | Kareem   | OK     |
| 6   | S5       | S5           | CAL6   | 11/06/24 17:30 |         | Kareem   | OK     |
| 7   | ICV01    | ICV01        | ICV    | 11/06/24 17:34 |         | Kareem   | OK     |
| 8   | LLICV01  | LLICV01      | LLICV  | 11/06/24 17:38 |         | Kareem   | OK     |
| 9   | ICB01    | ICB01        | ICB    | 11/06/24 17:43 |         | Kareem   | OK     |
| 10  | CRI01    | CRI01        | CRDL   | 11/06/24 18:04 |         | Kareem   | OK     |
| 11  | ICSA01   | ICSA01       | ICSA   | 11/06/24 18:08 |         | Kareem   | OK     |
| 12  | ICSAB01  | ICSAB01      | ICSAB  | 11/06/24 18:13 |         | Kareem   | OK     |
| 13  | CCV01    | CCV01        | CCV    | 11/06/24 18:23 |         | Kareem   | OK     |
| 14  | CCB01    | CCB01        | CCB    | 11/06/24 18:27 |         | Kareem   | OK     |
| 15  | P4709-01 | HR-02-110424 | SAM    | 11/06/24 18:31 |         | Kareem   | OK     |
| 16  | P4709-03 | HR-03-110424 | SAM    | 11/06/24 18:35 |         | Kareem   | OK     |
| 17  | CCV02    | CCV02        | CCV    | 11/06/24 18:39 |         | Kareem   | OK     |
| 18  | CCB02    | CCB02        | CCB    | 11/06/24 18:44 |         | Kareem   | OK     |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

|    |             |                    |     |                |                                                       |        |        |
|----|-------------|--------------------|-----|----------------|-------------------------------------------------------|--------|--------|
| 19 | P4652-01    | RW5-SP100-50-2024  | SAM | 11/06/24 18:49 |                                                       | Kareem | OK     |
| 20 | P4679-01    | MH-1               | SAM | 11/06/24 18:53 |                                                       | Kareem | OK     |
| 21 | P4659-01    | MH-2               | SAM | 11/06/24 18:57 |                                                       | Kareem | OK     |
| 22 | P4652-03    | RW5-SP301-303-50-2 | SAM | 11/06/24 19:02 |                                                       | Kareem | OK     |
| 23 | P4652-04    | RW5-SP100-90-2024  | SAM | 11/06/24 19:06 |                                                       | Kareem | OK     |
| 24 | P4652-06    | RW5-SP301-303-90-2 | SAM | 11/06/24 19:11 |                                                       | Kareem | OK     |
| 25 | P4661-03    | 102324-A           | SAM | 11/06/24 19:15 |                                                       | Kareem | OK     |
| 26 | P4680-01    | BP-F26             | SAM | 11/06/24 19:19 |                                                       | Kareem | OK     |
| 27 | P4680-05    | BP-F25             | SAM | 11/06/24 19:24 |                                                       | Kareem | OK     |
| 28 | P4680-05DUP | BP-F25DUP          | DUP | 11/06/24 19:28 |                                                       | Kareem | OK     |
| 29 | CCV03       | CCV03              | CCV | 11/06/24 19:32 |                                                       | Kareem | OK     |
| 30 | CCB03       | CCB03              | CCB | 11/06/24 19:36 |                                                       | Kareem | OK     |
| 31 | P4680-05L   | BP-F25L            | SD  | 11/06/24 19:40 |                                                       | Kareem | OK     |
| 32 | P4680-05MS  | BP-F25MS           | MS  | 11/06/24 19:44 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK     |
| 33 | P4680-05MSD | BP-F25MSD          | MSD | 11/06/24 19:48 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK     |
| 34 | P4680-05A   | BP-F25A            | PS  | 11/06/24 19:52 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK     |
| 35 | PB164634BL  | PB164634BL         | MB  | 11/06/24 19:56 | NOT USE                                               | Kareem | Not Ok |



Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

|    |             |                |     |                |                                                       |        |    |
|----|-------------|----------------|-----|----------------|-------------------------------------------------------|--------|----|
| 36 | P4662-04DL  | 102524-DDL     | SAM | 11/06/24 20:05 | Straight 5x Dilution for all elements                 | Kareem | OK |
| 37 | P4673-01    | OUTFALL-001    | SAM | 11/06/24 20:09 |                                                       | Kareem | OK |
| 38 | P4673-02    | OUTFALL-002    | SAM | 11/06/24 20:13 |                                                       | Kareem | OK |
| 39 | P4673-03    | OUTFALL-003    | SAM | 11/06/24 20:18 |                                                       | Kareem | OK |
| 40 | CCV04       | CCV04          | CCV | 11/06/24 20:22 |                                                       | Kareem | OK |
| 41 | CCB04       | CCB04          | CCB | 11/06/24 20:26 |                                                       | Kareem | OK |
| 42 | P4673-04    | OUTFALL-004    | SAM | 11/06/24 20:31 |                                                       | Kareem | OK |
| 43 | P4673-05    | OUTFALL-005    | SAM | 11/06/24 20:35 |                                                       | Kareem | OK |
| 44 | P4673-06    | OUTFALL-006    | SAM | 11/06/24 20:39 |                                                       | Kareem | OK |
| 45 | P4673-07    | OUTFALL-007    | SAM | 11/06/24 20:44 |                                                       | Kareem | OK |
| 46 | P4673-07DUP | OUTFALL-007DUP | DUP | 11/06/24 20:48 |                                                       | Kareem | OK |
| 47 | P4673-07L   | OUTFALL-007L   | SD  | 11/06/24 20:52 |                                                       | Kareem | OK |
| 48 | P4673-07MS  | OUTFALL-007MS  | MS  | 11/06/24 20:57 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 49 | P4673-07MSD | OUTFALL-007MSD | MSD | 11/06/24 21:01 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 50 | P4673-07A   | OUTFALL-007A   | PS  | 11/06/24 21:05 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 51 | P4674-01    | OUTFALL-001    | SAM | 11/06/24 21:09 |                                                       | Kareem | OK |
| 52 | CCV05       | CCV05          | CCV | 11/06/24 21:13 |                                                       | Kareem | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

|    |             |                     |     |                |                                                             |        |          |
|----|-------------|---------------------|-----|----------------|-------------------------------------------------------------|--------|----------|
| 53 | CCB05       | CCB05               | CCB | 11/06/24 21:17 |                                                             | Kareem | OK       |
| 54 | P4684-03    | MECHANIC-ST-OIL-V   | SAM | 11/06/24 21:22 | Fe high & Ag<br>(OverSaturated)                             | Kareem | Dilution |
| 55 | PB164645BL  | PB164645BL          | MB  | 11/06/24 21:26 | NOT USE                                                     | Kareem | Not Ok   |
| 56 | PB164645BS  | PB164645BS          | LCS | 11/06/24 21:30 | NOT USE - fail for Na                                       | Kareem | Not Ok   |
| 57 | P4658-01    | B-131-1-SB02        | SAM | 11/06/24 21:34 |                                                             | Kareem | OK       |
| 58 | P4658-02    | B-131-2-SB02        | SAM | 11/06/24 21:39 |                                                             | Kareem | OK       |
| 59 | P4658-03    | B-131-3-SB02        | SAM | 11/06/24 21:43 |                                                             | Kareem | OK       |
| 60 | P4364-15    | SB-07-0.167-0.667   | SAM | 11/06/24 21:47 | NOT USE                                                     | Kareem | Not Ok   |
| 61 | P4364-16    | SB-08-0.167-0.667   | SAM | 11/06/24 21:52 | NOT USE                                                     | Kareem | Not Ok   |
| 62 | P4364-14    | SB-06-0.167-0.667   | SAM | 11/06/24 21:56 |                                                             | Kareem | OK       |
| 63 | P4364-14DUP | SB-06-0.167-0.667DU | DUP | 11/06/24 22:01 |                                                             | Kareem | OK       |
| 64 | CCV06       | CCV06               | CCV | 11/06/24 22:11 |                                                             | Kareem | OK       |
| 65 | CCB06       | CCB06               | CCB | 11/06/24 22:15 |                                                             | Kareem | OK       |
| 66 | P4364-14L   | SB-06-0.167-0.667L  | SD  | 11/06/24 22:19 |                                                             | Kareem | OK       |
| 67 | P4364-14MS  | SB-06-0.167-0.667MS | MS  | 11/06/24 22:23 | 0.1ML OF M6010 AND<br>M6001 WERE ADDED TO<br>10ML OF SAMPLE | Kareem | OK       |
| 68 | P4364-14MSD | SB-06-0.167-0.667MS | MSD | 11/06/24 22:28 | 0.1ML OF M6010 AND<br>M6001 WERE ADDED TO<br>10ML OF SAMPLE | Kareem | OK       |
| 69 | P4364-14A   | SB-06-0.167-0.667A  | PS  | 11/06/24 22:33 | 0.1ML OF M6010 AND<br>M6001 WERE ADDED TO<br>10ML OF SAMPLE | Kareem | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

|    |             |                   |     |                |                                                       |        |    |
|----|-------------|-------------------|-----|----------------|-------------------------------------------------------|--------|----|
| 70 | P4667-01    | BP-F-6            | SAM | 11/06/24 22:38 |                                                       | Kareem | OK |
| 71 | P4667-05    | BP-F-5            | SAM | 11/06/24 22:42 |                                                       | Kareem | OK |
| 72 | P4667-09    | TP-10             | SAM | 11/06/24 22:46 |                                                       | Kareem | OK |
| 73 | P4667-13    | BP-F-7            | SAM | 11/06/24 22:50 |                                                       | Kareem | OK |
| 74 | P4675-01    | COMP-1            | SAM | 11/06/24 22:54 |                                                       | Kareem | OK |
| 75 | P4675-02    | COMP-2            | SAM | 11/06/24 22:59 |                                                       | Kareem | OK |
| 76 | CCV07       | CCV07             | CCV | 11/06/24 23:03 |                                                       | Kareem | OK |
| 77 | CCB07       | CCB07             | CCB | 11/06/24 23:07 |                                                       | Kareem | OK |
| 78 | P4675-03    | COMP-3            | SAM | 11/06/24 23:12 |                                                       | Kareem | OK |
| 79 | P4675-04    | COMP-4            | SAM | 11/06/24 23:16 |                                                       | Kareem | OK |
| 80 | P4675-05    | COMP-5            | SAM | 11/06/24 23:20 |                                                       | Kareem | OK |
| 81 | P4675-06    | COMP-6            | SAM | 11/06/24 23:25 |                                                       | Kareem | OK |
| 82 | P4685-01    | OK-01-11012024    | SAM | 11/06/24 23:29 |                                                       | Kareem | OK |
| 83 | P4685-01DUP | OK-01-11012024DUP | DUP | 11/06/24 23:33 |                                                       | Kareem | OK |
| 84 | P4685-01L   | OK-01-11012024L   | SD  | 11/06/24 23:37 |                                                       | Kareem | OK |
| 85 | P4685-01MS  | OK-01-11012024MS  | MS  | 11/06/24 23:41 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
| 86 | P4685-01MSD | OK-01-11012024MSD | MSD | 11/06/24 23:45 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK |
|    |             |                   |     |                |                                                       |        |    |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|              |        |              |                        |
|--------------|--------|--------------|------------------------|
| Review By    | kareem | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By | mohan  | Supervise On | 11/11/2024 12:01:52 AM |

| STD. NAME     | STD REF.#                                       |
|---------------|-------------------------------------------------|
| ICAL Standard | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |
| ICV Standard  | MP83085                                         |
| CCV Standard  | MP83088                                         |
| ICSA Standard | MP83086 MP83087                                 |
| CRI Standard  | MP83084                                         |
| LCS Standard  |                                                 |
| Chk Standard  | MP83091 MP83092                                 |

|     |               |                 |          |                |                                                       |        |          |
|-----|---------------|-----------------|----------|----------------|-------------------------------------------------------|--------|----------|
| 87  | P4685-01A     | OK-01-11012024A | PS       | 11/06/24 23:49 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 88  | CCV08         | CCV08           | CCV      | 11/06/24 23:59 |                                                       | Kareem | OK       |
| 89  | CCB08         | CCB08           | CCB      | 11/07/24 00:03 |                                                       | Kareem | OK       |
| 90  | P4397-04      | WB-301-SW       | SAM      | 11/07/24 00:07 | Na (Over Saturated)                                   | Kareem | Dilution |
| 91  | P4397-04DUP   | WB-301-SWDUP    | DUP      | 11/07/24 00:12 | Na (Over Saturated)                                   | Kareem | Dilution |
| 92  | P4397-04L     | WB-301-SWL      | SD       | 11/07/24 00:16 |                                                       | Kareem | OK       |
| 93  | P4397-04MS    | WB-301-SWMS     | MS       | 11/07/24 00:21 | Na (Over Saturated)                                   | Kareem | Dilution |
| 94  | P4397-04MSD   | WB-301-SWMSD    | MSD      | 11/07/24 00:25 | Na (Over Saturated)                                   | Kareem | Dilution |
| 95  | P4397-04A     | WB-301-SWA      | PS       | 11/07/24 00:29 | 0.1ML OF M6010 AND M6001 WERE ADDED TO 10ML OF SAMPLE | Kareem | OK       |
| 96  | PB164647BS    | PB164647BS      | LCS      | 11/07/24 00:38 | NOT USE                                               | Kareem | Not Ok   |
| 97  | LR1           | LR1             | HIGH STD | 11/07/24 00:43 |                                                       | Kareem | OK       |
| 98  | LR2           | LR2             | HIGH STD | 11/07/24 00:48 |                                                       | Kareem | OK       |
| 99  | CCV09         | CCV09           | CCV      | 11/07/24 00:53 |                                                       | Kareem | OK       |
| 100 | CCB09         | CCB09           | CCB      | 11/07/24 00:57 |                                                       | Kareem | OK       |
| 101 | P4397-04DL    | WB-301-SWDL     | SAM      | 11/07/24 01:01 | 5x for Na                                             | Kareem | Confirms |
| 102 | P4397-04DUPDL | WB-301-SWDUPDL  | DUP      | 11/07/24 01:06 | 5x for Na                                             | Kareem | Confirms |
| 103 | P4397-04LDL   | WB-301-SWLDL    | SD       | 11/07/24 01:10 | Not Required                                          | Kareem | Not Ok   |
| 104 | P4397-04MSDL  | WB-301-SWMSDL   | MS       | 11/07/24 01:15 | 5x for Na                                             | Kareem | Confirms |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133323**

|                  |                                                 |              |                        |
|------------------|-------------------------------------------------|--------------|------------------------|
| Review By        | kareem                                          | Review On    | 11/7/2024 1:15:13 PM   |
| Supervise By     | mohan                                           | Supervise On | 11/11/2024 12:01:52 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                        |
| ICAL Standard    | MP83078 MP83079 MP73080 MP83081 MP83082 MP83084 |              |                        |
| ICV Standard     | MP83085                                         |              |                        |
| CCV Standard     | MP83088                                         |              |                        |
| ICSA Standard    | MP83086 MP83087                                 |              |                        |
| CRI Standard     | MP83084                                         |              |                        |
| LCS Standard     |                                                 |              |                        |
| Chk Standard     | MP83091 MP83092                                 |              |                        |

|     |               |                     |     |                |                         |        |          |
|-----|---------------|---------------------|-----|----------------|-------------------------|--------|----------|
| 105 | P4397-04MSDDL | WB-301-SWMSDDL      | MSD | 11/07/24 01:19 | 5x for Na               | Kareem | Confirms |
| 106 | P4397-04ADL   | WB-301-SWADL        | PS  | 11/07/24 01:24 | Not Required            | Kareem | Not Ok   |
| 107 | P4684-03DL    | MECHANIC-ST-OIL-V   | SAM | 11/07/24 01:28 | 5x for Fe,Ag            | Kareem | Confirms |
| 108 | P4364-16DL    | SB-08-0.167-0.667DL | SAM | 11/07/24 01:33 | NOT USE                 | Kareem | Not Ok   |
| 109 | PB164563BL    | PB164563BL          | MB  | 11/07/24 01:37 | NOT USE                 | Kareem | Not Ok   |
| 110 | PB164563BS    | PB164563BS          | LCS | 11/07/24 01:41 | NOT USE - fail for K,Na | Kareem | Not Ok   |
| 111 | CCV10         | CCV10               | CCV | 11/07/24 01:49 |                         | Kareem | OK       |
| 112 | CCB10         | CCB10               | CCB | 11/07/24 01:53 |                         | Kareem | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

| Sr# | SampleId | ClientID     | QcType | Date           | Comment | Operator | Status |
|-----|----------|--------------|--------|----------------|---------|----------|--------|
| 1   | S0       | S0           | CAL1   | 11/07/24 13:23 |         | Kareem   | OK     |
| 2   | S1       | S1           | CAL2   | 11/07/24 13:28 |         | Kareem   | OK     |
| 3   | S2       | S2           | CAL3   | 11/07/24 13:32 |         | Kareem   | OK     |
| 4   | S3       | S3           | CAL4   | 11/07/24 13:36 |         | Kareem   | OK     |
| 5   | S4       | S4           | CAL5   | 11/07/24 13:40 |         | Kareem   | OK     |
| 6   | S5       | S5           | CAL6   | 11/07/24 13:45 |         | Kareem   | OK     |
| 7   | ICV01    | ICV01        | ICV    | 11/07/24 13:49 |         | Kareem   | OK     |
| 8   | LLICV01  | LLICV01      | LLICV  | 11/07/24 14:23 |         | Kareem   | OK     |
| 9   | ICB01    | ICB01        | ICB    | 11/07/24 14:38 |         | Kareem   | OK     |
| 10  | CRI01    | CRI01        | CRDL   | 11/07/24 14:42 |         | Kareem   | OK     |
| 11  | ICSA01   | ICSA01       | ICSA   | 11/07/24 14:47 |         | Kareem   | OK     |
| 12  | ICSAB01  | ICSAB01      | ICSAB  | 11/07/24 14:51 |         | Kareem   | OK     |
| 13  | CCV01    | CCV01        | CCV    | 11/07/24 15:01 |         | Kareem   | OK     |
| 14  | CCB01    | CCB01        | CCB    | 11/07/24 15:05 |         | Kareem   | OK     |
| 15  | P4645-04 | Z-02-WC      | SAM    | 11/07/24 15:09 |         | Kareem   | OK     |
| 16  | P4659-04 | MH-2         | SAM    | 11/07/24 15:14 |         | Kareem   | OK     |
| 17  | P4660-03 | WC-TA2-01-C  | SAM    | 11/07/24 15:18 |         | Kareem   | OK     |
| 18  | P4660-07 | WC-WOOD-01-C | SAM    | 11/07/24 15:22 |         | Kareem   | OK     |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |             |                  |     |                |  |        |    |
|----|-------------|------------------|-----|----------------|--|--------|----|
| 19 | P4660-11    | WC-CONCRETE-01-C | SAM | 11/07/24 15:27 |  | Kareem | OK |
| 20 | P4667-04    | BP-F-6           | SAM | 11/07/24 15:31 |  | Kareem | OK |
| 21 | P4667-08    | BP-F-5           | SAM | 11/07/24 15:36 |  | Kareem | OK |
| 22 | P4667-12    | TP-10            | SAM | 11/07/24 15:40 |  | Kareem | OK |
| 23 | P4667-16    | BP-F-7           | SAM | 11/07/24 15:45 |  | Kareem | OK |
| 24 | P4679-04    | MH-1             | SAM | 11/07/24 15:49 |  | Kareem | OK |
| 25 | CCV02       | CCV02            | CCV | 11/07/24 15:53 |  | Kareem | OK |
| 26 | CCB02       | CCB02            | CCB | 11/07/24 15:58 |  | Kareem | OK |
| 27 | P4680-04    | BP-F26           | SAM | 11/07/24 16:02 |  | Kareem | OK |
| 28 | P4680-08    | BP-F25           | SAM | 11/07/24 16:06 |  | Kareem | OK |
| 29 | P4684-01    | MECHANIC-ST-SWEI | SAM | 11/07/24 16:11 |  | Kareem | OK |
| 30 | P4684-01DUP | MECHANIC-ST-SWEI | DUP | 11/07/24 16:15 |  | Kareem | OK |
| 31 | P4684-01L   | MECHANIC-ST-SWEI | SD  | 11/07/24 16:20 |  | Kareem | OK |
| 32 | P4684-01MS  | MECHANIC-ST-SWEI | MS  | 11/07/24 16:24 |  | Kareem | OK |
| 33 | P4684-01MSD | MECHANIC-ST-SWEI | MSD | 11/07/24 16:28 |  | Kareem | OK |
| 34 | P4684-01A   | MECHANIC-ST-SWEI | PS  | 11/07/24 16:32 |  | Kareem | OK |
| 35 | PB164560TB  | PB164560TB       | MB  | 11/07/24 16:36 |  | Kareem | OK |
| 36 | PB164665BL  | PB164665BL       | MB  | 11/07/24 16:41 |  | Kareem | OK |
| 37 | CCV03       | CCV03            | CCV | 11/07/24 16:45 |  | Kareem | OK |
| 38 | CCB03       | CCB03            | CCB | 11/07/24 16:49 |  | Kareem | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |             |                |     |                |         |        |        |
|----|-------------|----------------|-----|----------------|---------|--------|--------|
| 39 | PB164665BS  | PB164665BS     | LCS | 11/07/24 16:54 |         | Kareem | OK     |
| 40 | P4693-04    | BP-G5-WC       | SAM | 11/07/24 16:58 |         | Kareem | OK     |
| 41 | P4693-08    | BP-G4-WC       | SAM | 11/07/24 17:02 |         | Kareem | OK     |
| 42 | P4694-04    | Z-03A          | SAM | 11/07/24 17:06 |         | Kareem | OK     |
| 43 | P4694-08    | Z-04           | SAM | 11/07/24 17:11 |         | Kareem | OK     |
| 44 | P4695-04    | Z-01           | SAM | 11/07/24 17:15 |         | Kareem | OK     |
| 45 | P4700-04    | MH-8           | SAM | 11/07/24 17:20 |         | Kareem | OK     |
| 46 | P4701-01    | BP-F3          | SAM | 11/07/24 17:24 |         | Kareem | OK     |
| 47 | P4701-08    | BP-F4          | SAM | 11/07/24 17:29 |         | Kareem | OK     |
| 48 | P4711-05    | CF-613-COMP-16 | SAM | 11/07/24 17:33 |         | Kareem | OK     |
| 49 | CCV04       | CCV04          | CCV | 11/07/24 17:56 |         | Kareem | OK     |
| 50 | CCB04       | CCB04          | CCB | 11/07/24 18:04 |         | Kareem | OK     |
| 51 | P4711-10    | CF-613-COMP-17 | SAM | 11/07/24 18:08 |         | Kareem | OK     |
| 52 | P4702-01    | TOTE-1         | SAM | 11/07/24 18:13 |         | Kareem | OK     |
| 53 | P4662-06DL2 | 102524-DDL2    | SAM | 11/07/24 18:17 | NOT USE | Kareem | Not Ok |
| 54 | P4662-06DL  | 102524-DDL     | SAM | 11/07/24 18:22 | NOT USE | Kareem | Not Ok |
| 55 | P4662-06    | 102524-D       | SAM | 11/07/24 18:28 |         | Kareem | OK     |
| 56 | CCV05       | CCV05          | CCV | 11/07/24 18:32 |         | Kareem | OK     |
| 57 | CCB05       | CCB05          | CCB | 11/07/24 18:37 |         | Kareem | OK     |
| 58 | P4702-01DUP | TOTE-1DUP      | DUP | 11/07/24 18:43 |         | Kareem | OK     |



Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |             |                   |     |                |  |        |    |
|----|-------------|-------------------|-----|----------------|--|--------|----|
| 59 | P4702-01L   | TOTE-1L           | SD  | 11/07/24 18:47 |  | Kareem | OK |
| 60 | P4706-01    | TR-04-110424      | SAM | 11/07/24 18:51 |  | Kareem | OK |
| 61 | P4708-01    | OR-02-110424      | SAM | 11/07/24 18:56 |  | Kareem | OK |
| 62 | P4711-01    | CF-613-COMP-16    | SAM | 11/07/24 19:00 |  | Kareem | OK |
| 63 | P4711-06    | CF-613-COMP-17    | SAM | 11/07/24 19:04 |  | Kareem | OK |
| 64 | CCV06       | CCV06             | CCV | 11/07/24 19:08 |  | Kareem | OK |
| 65 | CCB06       | CCB06             | CCB | 11/07/24 19:12 |  | Kareem | OK |
| 66 | P4702-01MS  | TOTE-1MS          | MS  | 11/07/24 19:16 |  | Kareem | OK |
| 67 | P4702-01MSD | TOTE-1MSD         | MSD | 11/07/24 19:20 |  | Kareem | OK |
| 68 | P4702-01A   | TOTE-1A           | PS  | 11/07/24 19:24 |  | Kareem | OK |
| 69 | PB164662TB  | PB164662TB        | MB  | 11/07/24 19:28 |  | Kareem | OK |
| 70 | PB164685TB  | PB164685TB        | MB  | 11/07/24 19:32 |  | Kareem | OK |
| 71 | PB164712BL  | PB164712BL        | MB  | 11/07/24 19:37 |  | Kareem | OK |
| 72 | PB164712BS  | PB164712BS        | LCS | 11/07/24 19:41 |  | Kareem | OK |
| 73 | P4720-01    | JC-701-COMP-01    | SAM | 11/07/24 19:45 |  | Kareem | OK |
| 74 | P4720-01DUP | JC-701-COMP-01DUP | DUP | 11/07/24 19:50 |  | Kareem | OK |
| 75 | P4720-01L   | JC-701-COMP-01L   | SD  | 11/07/24 19:54 |  | Kareem | OK |
| 76 | CCV07       | CCV07             | CCV | 11/07/24 19:58 |  | Kareem | OK |
| 77 | CCB07       | CCB07             | CCB | 11/07/24 20:02 |  | Kareem | OK |
| 78 | P4617-04    | CONCRETE-PILE     | SAM | 11/07/24 20:08 |  | Kareem | OK |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|    |             |                   |     |                |         |        |          |
|----|-------------|-------------------|-----|----------------|---------|--------|----------|
| 79 | P4617-04DUP | CONCRETE-PILEDU   | DUP | 11/07/24 20:12 |         | Kareem | OK       |
| 80 | P4617-04L   | CONCRETE-PILEL    | SD  | 11/07/24 20:17 |         | Kareem | OK       |
| 81 | P4617-04MS  | CONCRETE-PILEMS   | MS  | 11/07/24 20:21 |         | Kareem | OK       |
| 82 | P4617-04MSD | CONCRETE-PILEMS   | MSD | 11/07/24 20:25 |         | Kareem | OK       |
| 83 | P4549-04    | TT-069-IDWGW-2024 | SAM | 11/07/24 20:34 |         | Kareem | OK       |
| 84 | P4617-04A   | CONCRETE-PILEA    | PS  | 11/07/24 20:41 |         | Kareem | OK       |
| 85 | P4549-04DUP | TT-069-IDWGW-2024 | DUP | 11/07/24 20:45 |         | Kareem | OK       |
| 86 | P4549-04L   | TT-069-IDWGW-2024 | SD  | 11/07/24 20:49 |         | Kareem | OK       |
| 87 | P4549-04MS  | TT-069-IDWGW-2024 | MS  | 11/07/24 20:54 |         | Kareem | OK       |
| 88 | CCV08       | CCV08             | CCV | 11/07/24 20:58 |         | Kareem | OK       |
| 89 | CCB08       | CCB08             | CCB | 11/07/24 21:02 |         | Kareem | OK       |
| 90 | P4549-04MSD | TT-069-IDWGW-2024 | MSD | 11/07/24 21:08 |         | Kareem | OK       |
| 91 | P4549-04A   | TT-069-IDWGW-2024 | PS  | 11/07/24 21:12 |         | Kareem | OK       |
| 92 | P4720-01MS  | JC-701-COMP-01MS  | MS  | 11/07/24 21:16 |         | Kareem | OK       |
| 93 | P4720-01MSD | JC-701-COMP-01MS  | MSD | 11/07/24 21:20 |         | Kareem | OK       |
| 94 | P4720-01A   | JC-701-COMP-01A   | PS  | 11/07/24 21:24 |         | Kareem | OK       |
| 95 | P4722-03    | WC-1(0-6)         | SAM | 11/07/24 21:29 | Fe high | Kareem | Dilution |
| 96 | P4722-08    | WC-2(0-6)         | SAM | 11/07/24 21:33 |         | Kareem | OK       |
| 97 | P4722-13    | WC-3(0-6)         | SAM | 11/07/24 21:38 |         | Kareem | OK       |
| 98 | PB164723BL  | PB164723BL        | MB  | 11/07/24 21:42 |         | Kareem | OK       |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|     |             |               |     |                |         |        |        |
|-----|-------------|---------------|-----|----------------|---------|--------|--------|
| 99  | PB164723BS  | PB164723BS    | LCS | 11/07/24 21:47 |         | Kareem | OK     |
| 100 | CCV09       | CCV09         | CCV | 11/07/24 21:51 |         | Kareem | OK     |
| 101 | CCB09       | CCB09         | CCB | 11/07/24 21:55 |         | Kareem | OK     |
| 102 | P4693-01    | BP-G5-WC      | SAM | 11/07/24 22:09 |         | Kareem | OK     |
| 103 | P4693-05    | BP-G4-WC      | SAM | 11/07/24 22:13 |         | Kareem | OK     |
| 104 | P4694-01    | Z-03A         | SAM | 11/07/24 22:17 |         | Kareem | OK     |
| 105 | P4694-05    | Z-04          | SAM | 11/07/24 22:22 |         | Kareem | OK     |
| 106 | P4695-01    | Z-01          | SAM | 11/07/24 22:26 |         | Kareem | OK     |
| 107 | P4697-01    | TP-1          | SAM | 11/07/24 22:30 |         | Kareem | OK     |
| 108 | P4699-01    | MIXED-DEMO    | SAM | 11/07/24 22:34 |         | Kareem | OK     |
| 109 | P4699-01DUP | MIXED-DEMODUP | DUP | 11/07/24 22:39 |         | Kareem | OK     |
| 110 | P4699-01L   | MIXED-DEMOL   | SD  | 11/07/24 22:43 |         | Kareem | OK     |
| 111 | P4699-01MS  | MIXED-DEMOMS  | MS  | 11/07/24 22:47 |         | Kareem | OK     |
| 112 | CCV10       | CCV10         | CCV | 11/07/24 22:52 |         | Kareem | OK     |
| 113 | CCB10       | CCB10         | CCB | 11/07/24 22:56 |         | Kareem | OK     |
| 114 | P4699-01MSD | MIXED-DEMOMSD | MSD | 11/07/24 23:00 |         | Kareem | OK     |
| 115 | P4699-01A   | MIXED-DEMOA   | PS  | 11/07/24 23:04 |         | Kareem | OK     |
| 116 | P4700-01    | MH-8          | SAM | 11/07/24 23:09 |         | Kareem | OK     |
| 117 | P4701-01RE  | BP-F3RE       | SAM | 11/07/24 23:13 | NOT USE | Kareem | Not Ok |
| 118 | P4701-05    | BP-F4         | SAM | 11/07/24 23:17 |         | Kareem | OK     |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133344**

|                  |                                                 |              |                       |
|------------------|-------------------------------------------------|--------------|-----------------------|
| Review By        | mohan                                           | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By     | jaswal                                          | Supervise On | 11/9/2024 12:08:14 AM |
| <b>STD. NAME</b> | <b>STD REF.#</b>                                |              |                       |
| ICAL Standard    | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |              |                       |
| ICV Standard     | MP83085                                         |              |                       |
| CCV Standard     | MP83088                                         |              |                       |
| ICSA Standard    | MP83086,MP83087                                 |              |                       |
| CRI Standard     | MP83084                                         |              |                       |
| LCS Standard     |                                                 |              |                       |
| Chk Standard     | MP83091,MP83092                                 |              |                       |

|     |            |                  |          |                |           |        |          |
|-----|------------|------------------|----------|----------------|-----------|--------|----------|
| 119 | P4707-01   | HD-02-110424     | SAM      | 11/07/24 23:22 |           | Kareem | OK       |
| 120 | P4718-01   | WB-307-SB01      | SAM      | 11/07/24 23:26 |           | Kareem | OK       |
| 121 | P4718-02   | WB-307-SB02      | SAM      | 11/07/24 23:30 |           | Kareem | OK       |
| 122 | P4719-01   | BAYAVE-STOCKPILE | SAM      | 11/07/24 23:34 |           | Kareem | OK       |
| 123 | PB164708BL | PB164708BL       | MB       | 11/07/24 23:38 |           | Kareem | OK       |
| 124 | CCV11      | CCV11            | CCV      | 11/07/24 23:43 |           | Kareem | OK       |
| 125 | CCB11      | CCB11            | CCB      | 11/07/24 23:47 |           | Kareem | OK       |
| 126 | PB164708BS | PB164708BS       | LCS      | 11/07/24 23:51 |           | Kareem | OK       |
| 127 | PB164563BL | PB164563BL       | MB       | 11/07/24 23:55 |           | Kareem | OK       |
| 128 | PB164563BS | PB164563BS       | LCS      | 11/08/24 00:05 |           | Kareem | OK       |
| 129 | PB164634BL | PB164634BL       | MB       | 11/08/24 00:08 |           | Kareem | OK       |
| 130 | PB164634BS | PB164634BS       | LCS      | 11/08/24 00:13 |           | Kareem | OK       |
| 131 | PB164647BL | PB164647BL       | MB       | 11/08/24 00:17 |           | Kareem | OK       |
| 132 | PB164647BS | PB164647BS       | LCS      | 11/08/24 00:21 |           | Kareem | OK       |
| 133 | P4722-03DL | WC-1(0-6)DL      | SAM      | 11/08/24 00:26 | 5x for Fe | Kareem | Confirms |
| 134 | LR1        | LR1              | HIGH STD | 11/08/24 00:30 |           | Kareem | OK       |
| 135 | LR2        | LR2              | HIGH STD | 11/08/24 00:35 |           | Kareem | OK       |
| 136 | CCV12      | CCV12            | CCV      | 11/08/24 00:39 |           | Kareem | OK       |
| 137 | CCB12      | CCB12            | CCB      | 11/08/24 00:43 |           | Kareem | OK       |
| 138 | P4701-01DL | BP-F3DL          | SAM      | 11/08/24 00:48 | NOT USE   | Kareem | Not Ok   |

Instrument ID: P4

**Daily Analysis Runlog For Sequence/QCBatch ID # LB133344**

|              |        |              |                       |
|--------------|--------|--------------|-----------------------|
| Review By    | mohan  | Review On    | 11/9/2024 12:07:42 AM |
| Supervise By | jaswal | Supervise On | 11/9/2024 12:08:14 AM |

| STD. NAME     | STD REF.#                                       |
|---------------|-------------------------------------------------|
| ICAL Standard | MP83078,MP83079,MP73080,MP83081,MP83082,MP83084 |
| ICV Standard  | MP83085                                         |
| CCV Standard  | MP83088                                         |
| ICSA Standard | MP83086,MP83087                                 |
| CRI Standard  | MP83084                                         |
| LCS Standard  |                                                 |
| Chk Standard  | MP83091,MP83092                                 |

|     |       |       |     |                |  |        |    |
|-----|-------|-------|-----|----------------|--|--------|----|
| 139 | CCV13 | CCV13 | CCV | 11/08/24 00:57 |  | Kareem | OK |
| 140 | CCB13 | CCB13 | CCB | 11/08/24 01:01 |  | Kareem | OK |

SOP ID : M3050B-Digestion-20

SDG No : N/A

Matrix : SOIL

Pipette ID: ICP A

Balance ID : M SC-2

Filter paper ID : N/A

pH Strip ID : M6069

Hood ID : #3

Block ID: 1. HOT BLOCK #2 2. N/A

Start Digest Date: 11/03/2024 Time : 15:00 Temp : 96 °C

End Digest Date: 11/03/2024 Time : 17:10 Temp : 96 °C

Digestion tube ID: M6054

Block thermometer ID: MET-DIG. #2

Dig Technician Signature: *JSP*

Supervisor Signature: *[Signature]*

Temp : 1. 96°C 2. N/A

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| LFS-1         | 1.00     | M6000               |
| LFS-2         | 1.00     | M6009               |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |
| N/A           | N/A      | N/A                 |

| Chemical Used | ML/SAMPLE USED | Lot Number |
|---------------|----------------|------------|
| 1:1 HNO3      | 10.00          | MP81119    |
| CONC: HNO3    | 5.00           | MP82127    |
| 30% H2O2      | 3.00           | M5634      |
| CONC: HCL     | 10.00          | M6095      |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |
| N/A           | N/A            | N/A        |

Extraction Conformance/Non-Conformance Comments:

HOT BLOCK #2 Cell #34 : 96 C

| Date / Time   | Prepped Sample Relinquished By/Location | Received By/Location |
|---------------|-----------------------------------------|----------------------|
| 11/3/24 17:20 | <i>JSP / Met Dig</i>                    | <i>[Signature]</i>   |
|               | Preparation Group                       | Analysis Group       |

| Lab Sample ID | Client Sample ID          | pH  | Initial Weight (g) | Final Vol (ml) | Color Before | Color After | Texture | Artifact | Comment     | Prep Pos |
|---------------|---------------------------|-----|--------------------|----------------|--------------|-------------|---------|----------|-------------|----------|
| P4658-01      | B-131-1-SB02              | N/A | 2.37               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 1        |
| P4658-02      | B-131-2-SB02              | N/A | 2.47               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 2        |
| P4658-03      | B-131-3-SB02              | N/A | 2.20               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 3        |
| P4659-01      | MH-2                      | N/A | 2.15               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 4        |
| P4663-02      | TENNANT-PAD-2-3-STOCKPILE | N/A | 2.13               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 5        |
| P4663-04      | RES-BUILDING-PAD-NO-11    | N/A | 2.19               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 6        |
| P4663-06      | RES-BUILDING-PAD-NO-3     | N/A | 2.49               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 7        |
| P4663-08      | RES-BUILDING-PAD-NO-2     | N/A | 2.42               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 8        |
| P4677-01      | 2410-6346                 | N/A | 2.18               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 9        |
| P4679-01      | MH-1                      | N/A | 2.42               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 10       |
| P4680-01      | BP-F26                    | N/A | 2.47               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 11       |
| P4680-05      | BP-F25                    | N/A | 2.20               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 12       |
| P4680-05DUP   | BP-F25DUP                 | N/A | 2.36               | 100            | Brown        | Yellow      | Medium  | N/A      | N/A         | 13       |
| P4680-05MS    | BP-F25MS                  | N/A | 2.42               | 100            | Brown        | Yellow      | Medium  | N/A      | M6000,M6009 | 14       |
| P4680-05MSD   | BP-F25MSD                 | N/A | 2.05               | 100            | Brown        | Yellow      | Medium  | N/A      | M6000,M6009 | 15       |
| PB164634BL    | PBS634                    | N/A | 2.10               | 100            | Colorless    | Colorless   | Fine    | N/A      | N/A         | 16       |
| PB164634BS    | LCS634                    | N/A | 2.10               | 100            | Colorless    | Colorless   | Fine    | N/A      | M6000,M6009 | 17       |

SOP ID : M7471B-Mercury-18

SDG No : NA

Matrix : SOIL

Pipette ID : HG A

Balance ID : M SC-3

Filter paper ID : NA

pH Strip ID : NA

Hood ID : #1

Block ID : 1. HG HOT BLOCK#3 2. N/A

Start Digest Date: 11/04/2024 Time : 09:45 Temp : 94 °C

End Digest Date: 11/04/2024 Time : 10:15 Temp : 93 °C

Digestion tube ID: M5595

Block thermometer ID: HG-DIG#3

Dig Technician Signature: MB

Supervisor Signature: 12

Temp : 1. 94°C 2. N/A

| Standard Name | MLS USED | STD REF. # FROM LOG |
|---------------|----------|---------------------|
| ICV           | 30mL     | MP83023             |
| CCV           | 30mL     | MP83025             |
| CRA           | 30mL     | MP83027             |
| Blank Spike   | 0.48mL   | MP83015             |
| Matrix Spike  | 0.48mL   | MP83015             |

| Chemical Used           | ML/SAMPLE USED | Lot Number |
|-------------------------|----------------|------------|
| AQUA REGIA              | 1.5mL          | MP83029    |
| KMnO4 (5%)              | 4.5mL          | MP82652    |
| Hydroxylamine HCL (12%) | 2.0mL          | MP82654    |
| PTFE Boiling Stones     | -----          | M4583      |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |
| N/A                     | N/A            | N/A        |

| LAB SAMPLE ID | CLIENT SAMPLE ID | Wt(g)/Vol(ml) | Comment |
|---------------|------------------|---------------|---------|
| 0.0 ppb       | S0               | 30mL          | MP83017 |
| 0.05 ppb      | S0.05            | N/A           | N/A     |
| 0.2 ppb       | S0.2             | 30mL          | MP83018 |
| 2.5 ppb       | S2.5             | 30mL          | MP83019 |
| 5.0 ppb       | S5.0             | 30mL          | MP83020 |
| 7.5 ppb       | S7.5             | 30mL          | MP83021 |
| 10.0 ppb      | S10.0            | 30mL          | MP83022 |
| ICV           | ICV              | 30mL          | MP83023 |
| ICB           | ICB              | 30mL          | MP83024 |
| CCV           | CCV              | 30mL          | MP83025 |
| CCB           | CCB              | 30mL          | MP83026 |
| CRI           | CRI              | 30mL          | MP83027 |
| CHK STD       | CHK STD          | N/A           | MP83028 |

## Extraction Conformance/Non-Conformance Comments:

| N/A             |                                         |                      |
|-----------------|-----------------------------------------|----------------------|
| Date / Time     | Prepped Sample Relinquished By/Location | Received By/Location |
| 10/4/24 @ 10:40 | MB - DIG Lab                            | MB - Metal Lab       |
|                 | Preparation Group                       | Analysis Group       |



| Lab Sample ID | Client Sample ID             | Initial Weight (g) | Final Vol (ml) | pH | Comment | Prep Pos |
|---------------|------------------------------|--------------------|----------------|----|---------|----------|
| P4663-02      | TENNANT-PAD-2-3-STOCKPILE    | 0.56               | 35             | NA | N/A     | 3-1      |
| P4663-02DUP   | TENNANT-PAD-2-3-STOCKPILEDUP | 0.55               | 35             | NA | N/A     | 2        |
| P4663-02MS    | TENNANT-PAD-2-3-STOCKPILEMS  | 0.59               | 35             | NA | MP83015 | 3        |
| P4663-02MSD   | TENNANT-PAD-2-3-STOCKPILEMSD | 0.55               | 35             | NA | MP83015 | 4        |
| P4663-04      | RES-BUILDING-PAD-NO-11       | 0.50               | 35             | NA | N/A     | 5        |
| P4663-06      | RES-BUILDING-PAD-NO-3        | 0.59               | 35             | NA | N/A     | 6        |
| P4663-08      | RES-BUILDING-PAD-NO-2        | 0.56               | 35             | NA | N/A     | 7        |
| P4667-01      | BP-F-6                       | 0.54               | 35             | NA | N/A     | 8        |
| P4667-05      | BP-F-5                       | 0.54               | 35             | NA | N/A     | 9        |
| P4667-09      | BP-F-10                      | 0.55               | 35             | NA | N/A     | 10       |
| P4667-13      | BP-F-7                       | 0.60               | 35             | NA | N/A     | 11       |
| P4675-01      | COMP-1                       | 0.55               | 35             | NA | N/A     | 12       |
| P4675-02      | COMP-2                       | 0.52               | 35             | NA | N/A     | 13       |
| P4675-03      | COMP-3                       | 0.56               | 35             | NA | N/A     | 14       |
| P4675-04      | COMP-4                       | 0.51               | 35             | NA | N/A     | 15       |
| P4675-05      | COMP-5                       | 0.54               | 35             | NA | N/A     | 16       |
| P4675-06      | COMP-6                       | 0.52               | 35             | NA | N/A     | 17       |
| P4679-01      | MH-1                         | 0.54               | 35             | NA | N/A     | 18       |
| P4680-01      | BP-F26                       | 0.59               | 35             | NA | N/A     | 19       |
| P4680-05      | BP-F25                       | 0.56               | 35             | NA | N/A     | 20       |
| PB164668BL    | PBS668                       | 0.56               | 35             | NA | N/A     | 21       |
| PB164668BS    | LCS668                       | 0.52               | 35             | NA | MP83015 | 22       |