

**Analytical Summary Report**

Analysis Method: 9038

ANALYST: AMANDEEP

Parameter: Dissolved Sulfate

SUPERVISOR REVIEW BY: apatel

Run Number: LB101230

| Reagent/Standard       | Lot/Log # |
|------------------------|-----------|
| sulfate ICV 20ppm      | WP72271   |
| Sulfate LCS std, 20ppm | WP72275   |
| sulfate 0.0ppm         | WP72261   |
| sulfate 5ppm           | WP72266   |
| sulfate 10ppm          | WP72262   |
| sulfate 20ppm          | WP72263   |
| sulfate 30ppm          | WP72264   |
| sulfate 40ppm          | WP72265   |
| sulfate CCV 20ppm      | WP72270   |
| Sulfate std, 15ppm     | WP72267   |
| Sulfate std, 35ppm     | WP72269   |
| Sulfate std, 25ppm     | WP72268   |
| conditioning reagent   | WP68270   |

Intercept: -2.9502

Slope: 3.3552

Regression: 0.997978

| Seq | Lab ID | True Val<br>(mg/l) | DF | MATRIX | Initial<br>Reading | Final<br>Reading | Difference | AnalDate   | Anal Time |
|-----|--------|--------------------|----|--------|--------------------|------------------|------------|------------|-----------|
| 1   | CAL1   | 0                  | 1  | Water  | 0.255              | 0.384            | 0.129      | 03/06/2019 | 11:08     |
| 2   | CAL2   | 5                  | 1  | Water  | 0.258              | 14.700           | 14.442     | 03/06/2019 | 11:15     |
| 3   | CAL3   | 10                 | 1  | Water  | 0.279              | 30.700           | 30.421     | 03/06/2019 | 11:20     |
| 4   | CAL4   | 15                 | 1  | Water  | 0.259              | 46.400           | 46.141     | 03/06/2019 | 11:25     |
| 5   | CAL5   | 20                 | 1  | Water  | 0.292              | 59.600           | 59.308     | 03/06/2019 | 11:30     |
| 6   | CAL6   | 25                 | 1  | Water  | 0.295              | 78.000           | 77.705     | 03/06/2019 | 11:33     |
| 7   | CAL7   | 30                 | 1  | Water  | 0.237              | 102.000          | 101.763    | 03/06/2019 | 11:38     |
| 8   | CAL8   | 35                 | 1  | Water  | 0.273              | 114.000          | 113.727    | 03/06/2019 | 11:43     |
| 9   | CAL9   | 40                 | 1  | Water  | 0.260              | 134.000          | 133.740    | 03/06/2019 | 11:46     |



## Analytical Summary Report

Analysis Method: 9038

ANALYST: AMANDEEP

Parameter: Dissolved Sulfate

SUPERVISOR REVIEW BY: apatel

Run Number: LB101230

| Seq | Lab ID      | Initial Weight | Final Vol | True Value (mg/L) | DF | MATRIX | Initial Reading | Final Reading | Difference | Result (mg/L) | AnalDate   | Anal Time |
|-----|-------------|----------------|-----------|-------------------|----|--------|-----------------|---------------|------------|---------------|------------|-----------|
| 1   | ICV         |                |           | 20                | 1  | Water  | 0.276           | 63.700        | 63.424     | 19.782        | 03/06/2019 | 11:49     |
| 2   | ICB         |                |           |                   | 1  | Water  | 0.265           | 0.374         | 0.109      | 0.912         | 03/06/2019 | 11:52     |
| 3   | CCV1        |                |           | 20                | 1  | Water  | 0.284           | 58.900        | 58.616     | 18.349        | 03/07/2019 | 11:26     |
| 4   | CCB1        |                |           |                   | 1  | Water  | 0.254           | 0.340         | 0.086      | 0.905         | 03/07/2019 | 11:31     |
| 5   | LB101230BL  | 50             | 50        |                   | 1  | Water  | 0.245           | 0.326         | 0.081      | 0.903         | 03/07/2019 | 11:45     |
| 6   | LB101230BS  | 50             | 50        | 20                | 1  | Water  | 0.245           | 57.600        | 57.355     | 17.974        | 03/07/2019 | 11:51     |
| 7   | K1667-09    | 50             | 50        |                   | 1  | Water  | 0.299           | 79.900        | 79.601     | 24.604        | 03/07/2019 | 11:56     |
| 8   | K1667-10    | 50             | 50        |                   | 1  | Water  | 0.258           | 0.310         | 0.052      | 0.895         | 03/07/2019 | 12:01     |
| 9   | K1667-11    | 50             | 50        |                   | 1  | Water  | 0.996           | 25.400        | 24.404     | 8.153         | 03/07/2019 | 12:06     |
| 10  | K1667-11DUP | 50             | 50        |                   | 1  | Water  | 0.990           | 25.900        | 24.910     | 8.304         | 03/07/2019 | 12:10     |
| 11  | K1667-11MS  | 50             | 50        | 20                | 1  | Water  | 1.060           | 91.100        | 90.040     | 27.715        | 03/07/2019 | 12:16     |
| 12  | K1667-11MSD | 50             | 50        | 20                | 1  | Water  | 1.010           | 91.800        | 90.790     | 27.939        | 03/07/2019 | 12:20     |
| 13  | K1667-12    | 50             | 50        |                   | 1  | Water  | 0.650           | 50.900        | 50.250     | 15.856        | 03/07/2019 | 12:26     |
| 14  | K1667-13    | 50             | 50        |                   | 1  | Water  | 5.690           | 43.700        | 38.010     | 12.208        | 03/07/2019 | 12:30     |
| 15  | CCV2        |                |           | 20                | 1  | Water  | 0.288           | 58.700        | 58.412     | 18.289        | 03/07/2019 | 12:35     |
| 16  | CCB2        |                |           |                   | 1  | Water  | 0.256           | 0.378         | 0.122      | 0.916         | 03/07/2019 | 12:41     |
| 17  | K1667-14    | 50             | 50        |                   | 1  | Water  | 0.325           | 106.000       | 105.675    | 32.375        | 03/07/2019 | 12:46     |
| 18  | K1667-15    | 50             | 50        |                   | 1  | Water  | 0.302           | 97.900        | 97.598     | 29.968        | 03/07/2019 | 12:51     |
| 19  | K1667-16    | 50             | 50        |                   | 1  | Water  | 0.316           | 206.000       | 205.684    | 62.182        | 03/07/2019 | 12:54     |
| 20  | K1668-02    | 50             | 50        |                   | 1  | Water  | 0.220           | 180.500       | 180.280    | 54.611        | 03/07/2019 | 13:04     |
| 21  | K1668-04    | 50             | 50        |                   | 1  | Water  | 0.379           | 72.800        | 72.421     | 22.464        | 03/07/2019 | 13:10     |
| 22  | K1668-06    | 50             | 50        |                   | 1  | Water  | 0.350           | 81.400        | 81.050     | 25.036        | 03/07/2019 | 13:15     |
| 23  | K1668-08    | 50             | 50        |                   | 1  | Water  | 0.662           | 60.800        | 60.138     | 18.803        | 03/07/2019 | 13:20     |
| 24  | K1668-10    | 50             | 50        |                   | 1  | Water  | 0.459           | 78.500        | 78.041     | 24.139        | 03/07/2019 | 13:26     |
| 25  | K1668-10DUP | 50             | 50        |                   | 1  | Water  | 0.460           | 78.200        | 77.740     | 24.049        | 03/07/2019 | 13:30     |
| 26  | K1667-16    |                |           |                   | 5  | Water  | 0.315           | 48.300        | 47.985     | 15.181        | 03/07/2019 | 13:35     |
| 27  | CCV3        |                |           | 20                | 1  | Water  | 0.269           | 59.200        | 58.931     | 18.443        | 03/07/2019 | 13:40     |
| 28  | CCB3        |                |           |                   | 1  | Water  | 0.270           | 0.359         | 0.089      | 0.906         | 03/07/2019 | 13:44     |
| 29  | K1668-02    |                |           |                   | 2  | Water  | 0.223           | 88.800        | 88.577     | 27.279        | 03/07/2019 | 13:49     |
| 30  | CCV4        |                |           | 20                | 1  | Water  | 0.260           | 58.600        | 58.340     | 18.267        | 03/07/2019 | 13:53     |
| 31  | CCB4        |                |           |                   | 1  | Water  | 0.279           | 0.380         | 0.101      | 0.909         | 03/07/2019 | 13:57     |

LB101230

## WORKLIST(Hardcopy Internal Chain)

WorkList Name : DSO4022819-2

WorkList ID : 122851

Date : 02-28-2019 14:24:26

| Due Date   | Matrix | Sample   | Test              | Preservative | Customer | Storage Location | Customer Sample | Collect Date | Method |
|------------|--------|----------|-------------------|--------------|----------|------------------|-----------------|--------------|--------|
| 03/14/2019 | Water  | K1667-09 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW4M-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-10 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW6-060-3       | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-11 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MWP4-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-12 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW8D-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-13 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MWP2-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-14 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW8M-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-15 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW8M-060-2      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1667-16 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P61              | MW6-060-1       | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1668-02 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P51              | I01I-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1668-04 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P51              | I03I-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1668-06 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P51              | I04I-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1668-08 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P51              | I05I-060-1      | 02/28/2019   | 9038   |
| 03/14/2019 | Water  | K1668-10 | Dissolved Sulfate | Cool 4 deg C | WEST04   | P51              | I06I-060-1      | 02/28/2019   | 9038   |

Date/Time

Received by:

Relinquished by:

Date/Time

Received by:

Relinquished by: