

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB99328

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP69712   |
| Calibration Std. hexchrome 0.05 ppm   | WP69711   |
| 5N sulfuric acid                      | WP65054   |
| Hexavalent Chromium LCS Std           | WP69716   |
| Calibratation STD HexaChrome 1 PPM    | WP69717   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP69713   |
| calibration std. hexchrome 0.01 ppm   | WP69709   |
| calibration std. hexchrome 0 ppm      | WP69706   |
| Hexavalent Chromium ICV Std.          | WP69714   |
| Hexavalent Chromium CCV Std           | WP69715   |
| hexavalent chromium color reagent     | WP69705   |
| Calibration std Hexachrome, 0.025ppm  | WP69710   |

Intercept: 0.0002

Slope: 0.7718

Regression: 0.999972

| Seq | Lab ID | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb. at 540 |       | Absorbance Difference | Anal Date  | Anal Time |
|-----|--------|-------------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|------------|-----------|
|     |        |                   |    |                     |                |         |          | Backgrnd       | Color |                       |            |           |
| 1   | CAL1   | 0                 | 1  | 100                 | 100            |         | 2.09     | 0.000          | 0.000 | 0.000                 | 11/20/2018 | 10:20     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.88     | 0.000          | 0.008 | 0.008                 | 11/20/2018 | 10:20     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.017 | 0.017                 | 11/20/2018 | 10:21     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 1.94     | 0.000          | 0.038 | 0.038                 | 11/20/2018 | 10:21     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.76     | 0.000          | 0.079 | 0.079                 | 11/20/2018 | 10:22     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.33     | 0.000          | 0.390 | 0.390                 | 11/20/2018 | 10:22     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.21     | 0.000          | 0.770 | 0.770                 | 11/20/2018 | 10:23     |



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| Seq | Lab ID      | True Value (mg/l) | DF | Initial Vol (ml/gm) | Final Vol (ml) | pH HN03 | pH H2SO4 | Absorb. at 540 |       | Absorbance Difference | Result | Anal Date  | Anal Time |
|-----|-------------|-------------------|----|---------------------|----------------|---------|----------|----------------|-------|-----------------------|--------|------------|-----------|
|     |             |                   |    |                     |                |         |          | Backgrnd       | Color |                       |        |            |           |
| 1   | ICV         | 0.5               | 1  | 100                 | 100            |         | 1.74     | 0.000          | 0.391 | 0.391                 | 0.506  | 11/20/2018 | 10:23     |
| 2   | ICB         |                   | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2018 | 10:24     |
| 3   | CCV1        | 0.5               | 1  | 100                 | 100            |         | 2.31     | 0.000          | 0.391 | 0.391                 | 0.506  | 11/20/2018 | 10:24     |
| 4   | CCB1        |                   | 1  | 100                 | 100            |         | 1.65     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2018 | 10:25     |
| 5   | LB99328BL   |                   | 1  | 100                 | 100            |         | 1.55     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2018 | 10:25     |
| 6   | LB99328BS   | 0.5               | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.380 | 0.380                 | 0.492  | 11/20/2018 | 10:26     |
| 7   | J5993-10    |                   | 1  | 100                 | 100            |         | 2.34     | 0.012          | 0.012 | 0.000                 | 0.000  | 11/20/2018 | 10:26     |
| 8   | J5993-10DUP |                   | 1  | 100                 | 100            |         | 2.41     | 0.011          | 0.011 | 0.000                 | 0.000  | 11/20/2018 | 10:27     |
| 9   | J5993-10MS  | 1                 | 2  | 100                 | 100            |         | 1.82     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/20/2018 | 10:27     |
| 10  | J5993-10MSD | 1                 | 2  | 100                 | 100            |         | 1.52     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/20/2018 | 10:28     |
| 11  | J5993-11    |                   | 1  | 100                 | 100            |         | 1.99     | 0.010          | 0.010 | 0.000                 | 0.000  | 11/20/2018 | 10:28     |
| 12  | J5993-12    |                   | 1  | 100                 | 100            |         | 2.15     | 0.008          | 0.008 | 0.000                 | 0.000  | 11/20/2018 | 10:29     |
| 13  | CCV2        | 0.5               | 1  | 100                 | 100            |         | 2.33     | 0.000          | 0.391 | 0.391                 | 0.506  | 11/20/2018 | 10:29     |
| 14  | CCB2        |                   | 1  | 100                 | 100            |         | 2.27     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2018 | 10:30     |