

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB96532

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP65986   |
| Calibration Std. hexchrome 0.05 ppm   | WP65985   |
| 5N sulfuric acid                      | WP65054   |
| Calibratation STD HexaChrome 1 PPM    | WP65988   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP65987   |
| calibration std. hexchrome 0.01 ppm   | WP65983   |
| calibration std. hexchrome 0 ppm      | WP65982   |
| Hexavalent Chromium ICV Std.          | WP65989   |
| Hexavalent Chromium CCV Std           | WP65990   |
| hexavalent chromium color reagent     | WP65915   |
| HNO3 Hex-Chrome, 5M                   | WP65055   |
| Calibration std Hexachrome, 0.025ppm  | WP65984   |

Intercept: 0.0003

Slope: 0.7701

Regression: 0.999982

| 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            |         | 2.17     | 0.000          | 0.000 | 0.000                 | 07/10/2018 | 12:20     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.45     | 0.000          | 0.008 | 0.008                 | 07/10/2018 | 12:20     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.96     | 0.000          | 0.017 | 0.017                 | 07/10/2018 | 12:21     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 1.88     | 0.000          | 0.039 | 0.039                 | 07/10/2018 | 12:21     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.21     | 0.000          | 0.079 | 0.079                 | 07/10/2018 | 12:22     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.71     | 0.000          | 0.388 | 0.388                 | 07/10/2018 | 12:22     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.15     | 0.000          | 0.769 | 0.769                 | 07/10/2018 | 12:23     |



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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            |         | 1.80     | 0.000          | 0.390 | 0.390                 | 0.506  | 07/10/2018 | 12:23     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.54     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/10/2018 | 12:24     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.390 | 0.390                 | 0.506  | 07/10/2018 | 12:24     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.33     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/10/2018 | 12:25     |
| 5   | PB110971BL      |                   | 1  | 2.52                | 100            | 7.23    | 1.74     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/10/2018 | 12:25     |
| 6   | PB110971BS      | 20                | 1  | 2.55                | 100            | 7.19    | 1.88     | 0.000          | 0.356 | 0.356                 | 0.462  | 07/10/2018 | 12:26     |
| 7   | J3827-01        |                   | 1  | 2.50                | 100            | 7.88    | 2.17     | 0.008          | 0.008 | 0.000                 | 0.000  | 07/10/2018 | 12:26     |
| 8   | J3827-01DUP     |                   | 1  | 2.51                | 100            | 7.96    | 2.16     | 0.009          | 0.009 | 0.000                 | 0.000  | 07/10/2018 | 12:27     |
| 9   | J3827-01MSPre   | 40                | 2  | 2.53                | 100            | 7.11    | 2.35     | 0.009          | 0.107 | 0.098                 | 0.127  | 07/10/2018 | 12:27     |
| 10  | J3827-01MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.55    | 1.88     | 0.008          | 0.605 | 0.597                 | 0.775  | 07/10/2018 | 12:28     |
| 11  | J3827-01MS3Post | 40                | 2  | 2.53                | 100            | 7.89    | 1.62     | 0.011          | 0.113 | 0.102                 | 0.132  | 07/10/2018 | 12:28     |
| 12  | J3881-01        |                   | 1  | 2.51                | 100            | 7.44    | 1.95     | 0.013          | 0.013 | 0.000                 | 0.000  | 07/10/2018 | 12:29     |
| 13  | J3881-03        |                   | 1  | 2.54                | 100            | 7.55    | 2.21     | 0.016          | 0.016 | 0.000                 | 0.000  | 07/10/2018 | 12:29     |
| 14  | J3881-05        |                   | 1  | 2.50                | 100            | 7.46    | 2.27     | 0.010          | 0.010 | 0.000                 | 0.000  | 07/10/2018 | 12:30     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.30     | 0.000          | 0.391 | 0.391                 | 0.507  | 07/10/2018 | 12:30     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.76     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/10/2018 | 12:31     |
| 17  | J3881-07        |                   | 1  | 2.54                | 100            | 7.41    | 1.59     | 0.008          | 0.008 | 0.000                 | 0.000  | 07/10/2018 | 12:31     |
| 18  | J3881-09        |                   | 1  | 2.52                | 100            | 7.59    | 2.45     | 0.005          | 0.005 | 0.000                 | 0.000  | 07/10/2018 | 12:32     |
| 19  | J3908-03        |                   | 1  | 2.50                | 100            | 7.32    | 1.90     | 0.002          | 0.008 | 0.006                 | 0.007  | 07/10/2018 | 12:32     |
| 20  | J3914-01        |                   | 1  | 2.54                | 100            | 7.10    | 2.06     | 0.072          | 0.072 | 0.000                 | 0.000  | 07/10/2018 | 12:33     |
| 21  | J3914-03        |                   | 1  | 2.50                | 100            | 7.82    | 2.18     | 0.183          | 0.183 | 0.000                 | 0.000  | 07/10/2018 | 12:33     |
| 22  | J3914-05        |                   | 1  | 2.52                | 100            | 7.21    | 1.82     | 0.055          | 0.055 | 0.000                 | 0.000  | 07/10/2018 | 12:34     |
| 23  | J3914-07        |                   | 1  | 2.53                | 100            | 7.25    | 2.13     | 0.039          | 0.039 | 0.000                 | 0.000  | 07/10/2018 | 12:34     |
| 24  | J3914-09        |                   | 1  | 2.51                | 100            | 7.20    | 2.35     | 0.098          | 0.098 | 0.000                 | 0.000  | 07/10/2018 | 12:35     |
| 25  | J3914-11        |                   | 1  | 2.50                | 100            | 7.66    | 1.77     | 0.089          | 0.089 | 0.000                 | 0.000  | 07/10/2018 | 12:35     |
| 26  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 1.93     | 0.000          | 0.391 | 0.391                 | 0.507  | 07/10/2018 | 12:36     |
| 27  | CCB3            |                   | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.000 | 0.000                 | 0.000  | 07/10/2018 | 12:36     |