

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB88324

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP55895   |
| Calibration Std. hexchrome 0.05 ppm   | WP55894   |
| 5N sulfuric acid                      | WP55256   |
| Calibratation STD HexaChrome 1 PPM    | WP55897   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP55896   |
| calibration std. hexchrome 0.01 ppm   | WP55892   |
| calibration std. hexchrome 0 ppm      | WP55891   |
| Hexavalent Chromium ICV Std.          | WP55898   |
| Hexavalent Chromium CCV Std           | WP55904   |
| hexavalent chromium color reagent     | WP55833   |
| HNO3 Hex-Chrome, 5M                   | WP53205   |
| Calibration std Hexachrome, 0.025ppm  | WP55893   |

Intercept: 0.0001

Slope: 0.7807

Regression: 0.999955

| 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            |         | 2.10     | 0.000          | 0.000 | 0.000                 | 06/23/2017 | 10:15     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.45     | 0.000          | 0.007 | 0.007                 | 06/23/2017 | 10:15     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.90     | 0.000          | 0.017 | 0.017                 | 06/23/2017 | 10:16     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.19     | 0.000          | 0.039 | 0.039                 | 06/23/2017 | 10:16     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.74     | 0.000          | 0.079 | 0.079                 | 06/23/2017 | 10:17     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.56     | 0.000          | 0.396 | 0.396                 | 06/23/2017 | 10:17     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.31     | 0.000          | 0.778 | 0.778                 | 06/23/2017 | 10:18     |



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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            |         | 2.11     | 0.000          | 0.390 | 0.390                 | 0.499  | 06/23/2017 | 10:18     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.59     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/23/2017 | 10:19     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.392 | 0.392                 | 0.502  | 06/23/2017 | 13:10     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.61     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/23/2017 | 13:10     |
| 5   | PB100101BL      |                   | 1  | 2.51                | 100            | 7.51    | 2.38     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/23/2017 | 13:11     |
| 6   | PB100101BS      | 20                | 1  | 2.50                | 100            | 7.23    | 2.20     | 0.000          | 0.360 | 0.360                 | 0.461  | 06/23/2017 | 13:11     |
| 7   | I3808-07        |                   | 1  | 2.55                | 100            | 7.88    | 2.44     | 0.003          | 0.004 | 0.001                 | 0.001  | 06/23/2017 | 13:12     |
| 8   | I3844-01        |                   | 1  | 2.52                | 100            | 7.39    | 1.57     | 0.006          | 0.006 | 0.000                 | 0.000  | 06/23/2017 | 13:12     |
| 9   | I3844-01DUP     |                   | 1  | 2.55                | 100            | 7.04    | 2.03     | 0.005          | 0.005 | 0.000                 | 0.000  | 06/23/2017 | 13:13     |
| 10  | I3844-01MSPre   | 40                | 2  | 2.53                | 100            | 7.63    | 1.98     | 0.006          | 0.179 | 0.173                 | 0.221  | 06/23/2017 | 13:13     |
| 11  | I3844-01MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.81    | 2.36     | 0.007          | 0.615 | 0.608                 | 0.779  | 06/23/2017 | 13:14     |
| 12  | I3844-01MS3Post | 40                | 2  | 2.51                | 100            | 7.95    | 2.20     | 0.008          | 0.276 | 0.268                 | 0.343  | 06/23/2017 | 13:14     |
| 13  | I3851-01        |                   | 1  | 2.51                | 100            | 7.12    | 2.03     | 0.003          | 0.003 | 0.000                 | 0.000  | 06/23/2017 | 13:15     |
| 14  | I3851-02        |                   | 1  | 2.50                | 100            | 7.30    | 2.33     | 0.021          | 0.021 | 0.000                 | 0.000  | 06/23/2017 | 13:15     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.28     | 0.000          | 0.392 | 0.392                 | 0.502  | 06/23/2017 | 13:16     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.14     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/23/2017 | 13:16     |
| 17  | I3851-03        |                   | 1  | 2.54                | 100            | 7.47    | 1.91     | 0.011          | 0.011 | 0.000                 | 0.000  | 06/23/2017 | 13:17     |
| 18  | I3851-04        |                   | 1  | 2.52                | 100            | 7.60    | 1.83     | 0.015          | 0.015 | 0.000                 | 0.000  | 06/23/2017 | 13:17     |
| 19  | I3851-05        |                   | 1  | 2.51                | 100            | 7.71    | 2.07     | 0.012          | 0.012 | 0.000                 | 0.000  | 06/23/2017 | 13:18     |
| 20  | I3851-06        |                   | 1  | 2.55                | 100            | 7.09    | 2.13     | 0.008          | 0.009 | 0.001                 | 0.001  | 06/23/2017 | 13:18     |
| 21  | I3851-07        |                   | 1  | 2.52                | 100            | 7.38    | 2.29     | 0.003          | 0.005 | 0.002                 | 0.002  | 06/23/2017 | 13:19     |
| 22  | I3851-08        |                   | 1  | 2.55                | 100            | 7.69    | 1.74     | 0.031          | 0.031 | 0.000                 | 0.000  | 06/23/2017 | 13:19     |
| 23  | I3851-09        |                   | 1  | 2.54                | 100            | 7.33    | 1.55     | 0.006          | 0.006 | 0.000                 | 0.000  | 06/23/2017 | 13:20     |
| 24  | I3851-10        |                   | 1  | 2.50                | 100            | 7.45    | 2.41     | 0.010          | 0.010 | 0.000                 | 0.000  | 06/23/2017 | 13:20     |
| 25  | I3851-11        |                   | 1  | 2.51                | 100            | 7.21    | 1.60     | 0.005          | 0.005 | 0.000                 | 0.000  | 06/23/2017 | 13:21     |
| 26  | I3851-12        |                   | 1  | 2.53                | 100            | 7.10    | 1.69     | 0.008          | 0.008 | 0.000                 | 0.000  | 06/23/2017 | 13:21     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.45     | 0.000          | 0.393 | 0.393                 | 0.503  | 06/23/2017 | 13:22     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 2.47     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/23/2017 | 13:22     |