

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB87896

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP55420   |
| Calibration Std. hexchrome 0.05 ppm   | WP55419   |
| 5N sulfuric acid                      | WP55256   |
| Calibratation STD HexaChrome 1 PPM    | WP55422   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP55421   |
| calibration std. hexchrome 0.01 ppm   | WP55426   |
| calibration std. hexchrome 0 ppm      | WP55417   |
| Hexavalent Chromium ICV Std.          | WP55423   |
| Hexavalent Chromium CCV Std           | WP55424   |
| hexavalent chromium color reagent     | WP55319   |
| HNO3 Hex-Chrome, 5M                   | WP53205   |
| Calibration std Hexachrome, 0.025ppm  | WP55418   |

Intercept: 0.0001

Slope: 0.7798

Regression: 0.999949

| 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                 | 06/06/2017 | 15:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.46     | 0.000          | 0.007 | 0.007                 | 06/06/2017 | 15:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.90     | 0.000          | 0.017 | 0.017                 | 06/06/2017 | 15:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.38     | 0.000          | 0.039 | 0.039                 | 06/06/2017 | 15:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.079 | 0.079                 | 06/06/2017 | 15:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.57     | 0.000          | 0.396 | 0.396                 | 06/06/2017 | 15:03     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.30     | 0.000          | 0.777 | 0.777                 | 06/06/2017 | 15:03     |



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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          | 0.392 | 0.392                 | 0.503  | 06/06/2017 | 15:04     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.80     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/06/2017 | 15:04     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.76     | 0.000          | 0.393 | 0.393                 | 0.504  | 06/06/2017 | 15:05     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.17     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/06/2017 | 15:05     |
| 5   | PB99533BL       |                   | 1  | 2.50                | 100            | 7.86    | 1.63     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/06/2017 | 15:06     |
| 6   | PB99533BS       | 20                | 1  | 2.54                | 100            | 7.42    | 2.44     | 0.000          | 0.396 | 0.396                 | 0.508  | 06/06/2017 | 15:06     |
| 7   | I3478-01        |                   | 1  | 2.51                | 100            | 7.31    | 2.36     | 0.006          | 0.006 | 0.000                 | 0.000  | 06/06/2017 | 15:07     |
| 8   | I3478-01DUP     |                   | 1  | 2.53                | 100            | 7.25    | 1.67     | 0.007          | 0.007 | 0.000                 | 0.000  | 06/06/2017 | 15:07     |
| 9   | I3478-01MSPre   | 40                | 2  | 2.54                | 100            | 7.64    | 2.38     | 0.009          | 0.357 | 0.348                 | 0.446  | 06/06/2017 | 15:08     |
| 10  | I3478-01MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.14    | 2.24     | 0.011          | 0.629 | 0.618                 | 0.792  | 06/06/2017 | 15:08     |
| 11  | I3478-01MS3Post | 40                | 2  | 2.51                | 100            | 7.05    | 2.19     | 0.013          | 0.385 | 0.372                 | 0.477  | 06/06/2017 | 15:09     |
| 12  | I3478-05        |                   | 1  | 2.55                | 100            | 7.96    | 1.70     | 0.020          | 0.020 | 0.000                 | 0.000  | 06/06/2017 | 15:09     |
| 13  | I3478-09        |                   | 1  | 2.50                | 100            | 7.34    | 1.86     | 0.008          | 0.008 | 0.000                 | 0.000  | 06/06/2017 | 15:10     |
| 14  | I3478-13        |                   | 1  | 2.54                | 100            | 7.75    | 2.21     | 0.011          | 0.012 | 0.001                 | 0.001  | 06/06/2017 | 15:10     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.39     | 0.000          | 0.393 | 0.393                 | 0.504  | 06/06/2017 | 15:11     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.47     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/06/2017 | 15:11     |
| 17  | I3478-17        |                   | 1  | 2.53                | 100            | 7.32    | 1.86     | 0.015          | 0.015 | 0.000                 | 0.000  | 06/06/2017 | 15:12     |
| 18  | I3481-01        |                   | 1  | 2.55                | 100            | 7.20    | 1.93     | 0.025          | 0.025 | 0.000                 | 0.000  | 06/06/2017 | 15:12     |
| 19  | I3482-01        |                   | 1  | 2.50                | 100            | 7.42    | 2.16     | 0.012          | 0.012 | 0.000                 | 0.000  | 06/06/2017 | 15:13     |
| 20  | I3482-04        |                   | 1  | 2.51                | 100            | 7.63    | 2.35     | 0.009          | 0.009 | 0.000                 | 0.000  | 06/06/2017 | 15:13     |
| 21  | I3482-07        |                   | 1  | 2.52                | 100            | 7.84    | 2.36     | 0.016          | 0.017 | 0.001                 | 0.001  | 06/06/2017 | 15:14     |
| 22  | I3482-10        |                   | 1  | 2.51                | 100            | 7.63    | 1.70     | 0.010          | 0.010 | 0.000                 | 0.000  | 06/06/2017 | 15:14     |
| 23  | I3482-13        |                   | 1  | 2.53                | 100            | 7.53    | 1.60     | 0.019          | 0.019 | 0.000                 | 0.000  | 06/06/2017 | 15:15     |
| 24  | I3486-01        |                   | 1  | 2.55                | 100            | 7.14    | 1.83     | 0.082          | 0.082 | 0.000                 | 0.000  | 06/06/2017 | 15:15     |
| 25  | I3487-01        |                   | 1  | 2.52                | 100            | 7.02    | 2.34     | 0.006          | 0.006 | 0.000                 | 0.000  | 06/06/2017 | 15:16     |
| 26  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.47     | 0.000          | 0.394 | 0.394                 | 0.505  | 06/06/2017 | 15:16     |
| 27  | CCB3            |                   | 1  | 100                 | 100            |         | 2.22     | 0.000          | 0.000 | 0.000                 | 0.000  | 06/06/2017 | 15:17     |