

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB91481

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP59527   |
| Calibration Std. hexchrome 0.05 ppm   | WP59526   |
| 5N sulfuric acid                      | WP56414   |
| Calibratation STD HexaChrome 1 PPM    | WP59529   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP59528   |
| calibration std. hexchrome 0.01 ppm   | WP59524   |
| calibration std. hexchrome 0 ppm      | WP59523   |
| Hexavalent Chromium ICV Std.          | WP59530   |
| Hexavalent Chromium CCV Std           | WP59531   |
| hexavalent chromium color reagent     | WP59409   |
| HNO3 Hex-Chrome, 5M                   | WP58774   |
| Calibration std Hexachrome, 0.025ppm  | WP59525   |

Intercept: 0.0001

Slope: 0.7724

Regression: 0.999995

| 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            |         | 2.24     | 0.000          | 0.000 | 0.000                 | 11/09/2017 | 14:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.007 | 0.007                 | 11/09/2017 | 14:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.019 | 0.019                 | 11/09/2017 | 14:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.34     | 0.000          | 0.038 | 0.038                 | 11/09/2017 | 14:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.079 | 0.079                 | 11/09/2017 | 14:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.80     | 0.000          | 0.387 | 0.387                 | 11/09/2017 | 14:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.34     | 0.000          | 0.772 | 0.772                 | 11/09/2017 | 14:03     |



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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            |         | 2.10     | 0.000          | 0.389 | 0.389                 | 0.503  | 11/09/2017 | 14:03     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.88     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:04     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.390 | 0.390                 | 0.505  | 11/09/2017 | 14:04     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.33     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:05     |
| 5   | PB104129BL      |                   | 1  | 2.54                | 100            | 7.04    | 2.20     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:05     |
| 6   | PB104129BS      | 20                | 1  | 2.50                | 100            | 7.36    | 1.77     | 0.000          | 0.368 | 0.368                 | 0.476  | 11/09/2017 | 14:06     |
| 7   | I6289-03        |                   | 1  | 2.52                | 100            | 7.25    | 2.06     | 0.010          | 0.010 | 0.000                 | 0.000  | 11/09/2017 | 14:06     |
| 8   | I6368-04        |                   | 1  | 2.54                | 100            | 7.91    | 1.58     | 0.009          | 0.018 | 0.009                 | 0.012  | 11/09/2017 | 14:07     |
| 9   | I6382-01        |                   | 1  | 2.51                | 100            | 7.52    | 2.45     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/09/2017 | 14:07     |
| 10  | I6382-11        |                   | 1  | 2.53                | 100            | 7.60    | 1.63     | 0.005          | 0.014 | 0.009                 | 0.012  | 11/09/2017 | 14:08     |
| 11  | I6384-01        |                   | 1  | 2.50                | 100            | 7.33    | 2.34     | 0.007          | 0.007 | 0.000                 | 0.000  | 11/09/2017 | 14:08     |
| 12  | I6388-01        |                   | 1  | 2.52                | 100            | 7.77    | 2.08     | 0.030          | 0.030 | 0.000                 | 0.000  | 11/09/2017 | 14:09     |
| 13  | I6388-03        |                   | 1  | 2.54                | 100            | 7.89    | 2.21     | 0.023          | 0.023 | 0.000                 | 0.000  | 11/09/2017 | 14:09     |
| 14  | I6388-05        |                   | 1  | 2.53                | 100            | 7.10    | 1.90     | 0.027          | 0.027 | 0.000                 | 0.000  | 11/09/2017 | 14:10     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 1.84     | 0.000          | 0.390 | 0.390                 | 0.505  | 11/09/2017 | 14:10     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.14     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:11     |
| 17  | I6388-07        |                   | 1  | 2.54                | 100            | 7.65    | 2.30     | 0.044          | 0.044 | 0.000                 | 0.000  | 11/09/2017 | 14:11     |
| 18  | I6388-09        |                   | 1  | 2.52                | 100            | 7.39    | 2.07     | 0.036          | 0.036 | 0.000                 | 0.000  | 11/09/2017 | 14:12     |
| 19  | I6388-11        |                   | 1  | 2.50                | 100            | 7.22    | 1.58     | 0.015          | 0.015 | 0.000                 | 0.000  | 11/09/2017 | 14:12     |
| 20  | I6388-13        |                   | 1  | 2.51                | 100            | 7.63    | 2.01     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/09/2017 | 14:13     |
| 21  | I6388-13DUP     |                   | 1  | 2.53                | 100            | 7.21    | 1.64     | 0.012          | 0.012 | 0.000                 | 0.000  | 11/09/2017 | 14:13     |
| 22  | I6388-13MSPre   | 40                | 2  | 2.55                | 100            | 7.46    | 1.75     | 0.014          | 0.351 | 0.337                 | 0.436  | 11/09/2017 | 14:14     |
| 23  | I6388-13MS2Ins  | 1284              | 40 | 2.52                | 100            | 7.33    | 1.91     | 0.014          | 0.602 | 0.588                 | 0.761  | 11/09/2017 | 14:14     |
| 24  | I6388-13MS3Post | 40                | 2  | 2.54                | 100            | 7.04    | 2.30     | 0.015          | 0.355 | 0.340                 | 0.440  | 11/09/2017 | 14:15     |
| 25  | I6388-15        |                   | 1  | 2.51                | 100            | 7.89    | 2.25     | 0.026          | 0.026 | 0.000                 | 0.000  | 11/09/2017 | 14:15     |
| 26  | I6388-17        |                   | 1  | 2.52                | 100            | 7.36    | 1.97     | 0.018          | 0.018 | 0.000                 | 0.000  | 11/09/2017 | 14:16     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 1.88     | 0.000          | 0.391 | 0.391                 | 0.506  | 11/09/2017 | 14:16     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 2.19     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:17     |
| 29  | I6388-19        |                   | 1  | 2.55                | 100            | 7.69    | 2.22     | 0.082          | 0.082 | 0.000                 | 0.000  | 11/09/2017 | 14:17     |
| 30  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.391 | 0.391                 | 0.506  | 11/09/2017 | 14:18     |
| 31  | CCB4            |                   | 1  | 100                 | 100            |         | 1.94     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/09/2017 | 14:18     |