

# Alytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB91451

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP59498   |
| Calibration Std. hexchrome 0.05 ppm   | WP59497   |
| 5N sulfuric acid                      | WP56414   |
| Calibratation STD HexaChrome 1 PPM    | WP59500   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP59499   |
| calibration std. hexchrome 0.01 ppm   | WP59495   |
| calibration std. hexchrome 0 ppm      | WP59503   |
| Hexavalent Chromium ICV Std.          | WP59501   |
| Hexavalent Chromium CCV Std           | WP59504   |
| hexavalent chromium color reagent     | WP59409   |
| HNO3 Hex-Chrome, 5M                   | WP58774   |
| Calibration std Hexachrome, 0.025ppm  | WP59496   |

Intercept: 0.0001

Slope: 0.7699

Regression: 0.999994

| 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            |         | 2.16     | 0.000          | 0.000 | 0.000                 | 11/08/2017 | 12:10     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.93     | 0.000          | 0.008 | 0.008                 | 11/08/2017 | 12:10     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.57     | 0.000          | 0.020 | 0.020                 | 11/08/2017 | 12:11     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.34     | 0.000          | 0.039 | 0.039                 | 11/08/2017 | 12:11     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.46     | 0.000          | 0.077 | 0.077                 | 11/08/2017 | 12:12     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.383 | 0.383                 | 11/08/2017 | 12:12     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.08     | 0.000          | 0.771 | 0.771                 | 11/08/2017 | 12:13     |



# Analytical Summary Report

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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            |         | 1.55     | 0.000          | 0.393 | 0.393                 | 0.510  | 11/08/2017 | 12:13     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.13     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/08/2017 | 12:14     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.75     | 0.000          | 0.394 | 0.394                 | 0.512  | 11/08/2017 | 12:14     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.06     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/08/2017 | 12:15     |
| 5   | PB104101BL      |                   | 1  | 2.51                | 100            | 7.33    | 2.44     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/08/2017 | 12:15     |
| 6   | PB104101BS      | 20                | 1  | 2.54                | 100            | 7.60    | 1.69     | 0.000          | 0.377 | 0.377                 | 0.490  | 11/08/2017 | 12:16     |
| 7   | I6298-10        |                   | 1  | 2.50                | 100            | 7.41    | 2.17     | 0.004          | 0.775 | 0.771                 | 1.001  | 11/08/2017 | 12:16     |
| 8   | I6300-01        |                   | 1  | 2.53                | 100            | 7.85    | 2.28     | 0.014          | 0.014 | 0.000                 | 0.000  | 11/08/2017 | 12:17     |
| 9   | I6304-09        |                   | 1  | 2.52                | 100            | 7.36    | 2.31     | 0.018          | 0.018 | 0.000                 | 0.000  | 11/08/2017 | 12:17     |
| 10  | I6310-01        |                   | 1  | 2.55                | 100            | 7.41    | 1.81     | 0.007          | 0.007 | 0.000                 | 0.000  | 11/08/2017 | 12:17     |
| 11  | I6311-01        |                   | 1  | 2.51                | 100            | 7.22    | 1.95     | 0.002          | 0.002 | 0.000                 | 0.000  | 11/08/2017 | 12:18     |
| 12  | I6311-01DUP     |                   | 1  | 2.54                | 100            | 7.60    | 2.34     | 0.001          | 0.001 | 0.000                 | 0.000  | 11/08/2017 | 12:18     |
| 13  | I6311-01MSPre   | 40                | 2  | 2.53                | 100            | 7.21    | 2.20     | 0.004          | 0.367 | 0.363                 | 0.471  | 11/08/2017 | 12:19     |
| 14  | I6311-01MS2Ins  | 1284              | 40 | 2.52                | 100            | 7.04    | 2.48     | 0.003          | 0.602 | 0.599                 | 0.778  | 11/08/2017 | 12:19     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 1.70     | 0.000          | 0.394 | 0.394                 | 0.512  | 11/08/2017 | 12:20     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.14     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/08/2017 | 12:20     |
| 17  | I6311-01MS3Post | 40                | 2  | 2.51                | 100            | 7.17    | 1.88     | 0.005          | 0.370 | 0.365                 | 0.474  | 11/08/2017 | 12:21     |
| 18  | I6359-01        |                   | 1  | 2.51                | 100            | 7.63    | 1.96     | 0.002          | 0.005 | 0.003                 | 0.004  | 11/08/2017 | 12:21     |
| 19  | I6374-01        |                   | 1  | 2.52                | 100            | 7.89    | 2.23     | 0.025          | 0.026 | 0.001                 | 0.001  | 11/08/2017 | 12:22     |
| 20  | I6377-01        |                   | 1  | 2.55                | 100            | 7.74    | 1.76     | 0.032          | 0.032 | 0.000                 | 0.000  | 11/08/2017 | 12:22     |
| 21  | I6379-01        |                   | 1  | 2.53                | 100            | 7.55    | 2.10     | 0.008          | 0.016 | 0.008                 | 0.010  | 11/08/2017 | 12:23     |
| 22  | I6379-04        |                   | 1  | 2.54                | 100            | 7.42    | 2.30     | 0.022          | 0.024 | 0.002                 | 0.002  | 11/08/2017 | 12:23     |
| 23  | I6379-07        |                   | 1  | 2.52                | 100            | 7.63    | 1.64     | 0.064          | 0.067 | 0.003                 | 0.004  | 11/08/2017 | 12:24     |
| 24  | I6381-01        |                   | 1  | 2.54                | 100            | 7.81    | 2.08     | 0.016          | 0.030 | 0.014                 | 0.018  | 11/08/2017 | 12:24     |
| 25  | I6381-03        |                   | 1  | 2.50                | 100            | 7.36    | 1.93     | 0.008          | 0.010 | 0.002                 | 0.002  | 11/08/2017 | 12:25     |
| 26  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.17     | 0.000          | 0.394 | 0.394                 | 0.512  | 11/08/2017 | 12:25     |
| 27  | CCB3            |                   | 1  | 100                 | 100            |         | 2.41     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/08/2017 | 12:26     |