

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB90083

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP57911   |
| Calibration Std. hexchrome 0.05 ppm   | WP57910   |
| 5N sulfuric acid                      | WP56414   |
| Calibratation STD HexaChrome 1 PPM    | WP57913   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP57912   |
| calibration std. hexchrome 0.01 ppm   | WP57908   |
| calibration std. hexchrome 0 ppm      | WP57905   |
| Hexavalent Chromium ICV Std.          | WP57914   |
| Hexavalent Chromium CCV Std           | WP57915   |
| hexavalent chromium color reagent     | WP57916   |
| HNO3 Hex-Chrome, 5M                   | WP56413   |
| Calibration std Hexachrome, 0.025ppm  | WP57909   |

Intercept: 0.0007

Slope: 0.7787

Regression: 0.999937

| 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            |         | 2.05     | 0.000          | 0.000 | 0.000                 | 09/14/2017 | 12:20     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.98     | 0.000          | 0.008 | 0.008                 | 09/14/2017 | 12:20     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.13     | 0.000          | 0.018 | 0.018                 | 09/14/2017 | 12:21     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 1.99     | 0.000          | 0.039 | 0.039                 | 09/14/2017 | 12:21     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.76     | 0.000          | 0.079 | 0.079                 | 09/14/2017 | 12:22     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.45     | 0.000          | 0.397 | 0.397                 | 09/14/2017 | 12:22     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.60     | 0.000          | 0.776 | 0.776                 | 09/14/2017 | 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            |         | 1.89     | 0.000          | 0.389 | 0.389                 | 0.499  | 09/14/2017 | 12:23     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.02     | 0.000          | 0.000 | 0.000                 | -0.001 | 09/14/2017 | 12:24     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.391 | 0.391                 | 0.501  | 09/14/2017 | 16:50     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.83     | 0.000          | 0.000 | 0.000                 | -0.001 | 09/14/2017 | 16:50     |
| 5   | PB102349BL      |                   | 1  | 2.50                | 100            | 7.53    | 2.45     | 0.000          | 0.000 | 0.000                 | -0.001 | 09/14/2017 | 16:51     |
| 6   | PB102349BS      | 20                | 1  | 2.51                | 100            | 7.12    | 2.21     | 0.000          | 0.355 | 0.355                 | 0.455  | 09/14/2017 | 16:51     |
| 7   | I5229-06        |                   | 1  | 2.53                | 100            | 7.44    | 1.10     | 0.071          | 0.071 | 0.000                 | -0.001 | 09/14/2017 | 16:52     |
| 8   | I5229-07        |                   | 1  | 2.52                | 100            | 7.80    | 1.74     | 0.021          | 0.022 | 0.001                 | 0.000  | 09/14/2017 | 16:52     |
| 9   | I5229-08        |                   | 1  | 2.55                | 100            | 7.60    | 2.31     | 0.026          | 0.027 | 0.001                 | 0.000  | 09/14/2017 | 16:53     |
| 10  | I5229-08DUP     |                   | 1  | 2.53                | 100            | 7.21    | 2.25     | 0.027          | 0.027 | 0.000                 | -0.001 | 09/14/2017 | 16:53     |
| 11  | I5229-08MSPre   | 40                | 2  | 2.51                | 100            | 7.10    | 2.44     | 0.031          | 0.074 | 0.043                 | 0.054  | 09/14/2017 | 16:54     |
| 12  | I5229-08MS2Ins  | 1284              | 40 | 2.53                | 100            | 7.36    | 1.88     | 0.030          | 0.639 | 0.609                 | 0.781  | 09/14/2017 | 16:54     |
| 13  | I5229-08MS3Post | 40                | 2  | 2.54                | 100            | 7.90    | 1.79     | 0.033          | 0.115 | 0.082                 | 0.104  | 09/14/2017 | 16:55     |
| 14  | I5229-09        |                   | 1  | 2.55                | 100            | 7.82    | 2.23     | 0.026          | 0.027 | 0.001                 | 0.000  | 09/14/2017 | 16:55     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.34     | 0.000          | 0.391 | 0.391                 | 0.501  | 09/14/2017 | 16:56     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.000 | 0.000                 | -0.001 | 09/14/2017 | 16:56     |
| 17  | I5229-10        |                   | 1  | 2.55                | 100            | 7.70    | 1.59     | 0.031          | 0.031 | 0.000                 | -0.001 | 09/14/2017 | 16:57     |
| 18  | I5229-11        |                   | 1  | 2.53                | 100            | 7.53    | 2.05     | 0.022          | 0.023 | 0.001                 | 0.000  | 09/14/2017 | 16:57     |
| 19  | I5236-01        |                   | 1  | 2.50                | 100            | 7.45    | 1.61     | 0.022          | 0.022 | 0.000                 | -0.001 | 09/14/2017 | 16:58     |
| 20  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.392 | 0.392                 | 0.503  | 09/14/2017 | 16:58     |
| 21  | CCB3            |                   | 1  | 100                 | 100            |         | 2.12     | 0.000          | 0.000 | 0.000                 | -0.001 | 09/14/2017 | 16:59     |