

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB91699

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP59781   |
| Calibration Std. hexchrome 0.05 ppm   | WP59780   |
| 5N sulfuric acid                      | WP56414   |
| Calibratation STD HexaChrome 1 PPM    | WP59783   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP59782   |
| calibration std. hexchrome 0.01 ppm   | WP59778   |
| calibration std. hexchrome 0 ppm      | WP59744   |
| Hexavalent Chromium ICV Std.          | WP59784   |
| Hexavalent Chromium CCV Std           | WP59785   |
| hexavalent chromium color reagent     | WP59746   |
| HNO3 Hex-Chrome, 5M                   | WP58774   |
| Calibration std Hexachrome, 0.025ppm  | WP59779   |

Intercept: 0

Slope: 0.778

Regression: 0.999948

| 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            |         | 1.88     | 0.000          | 0.000 | 0.000                 | 11/20/2017 | 14:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.52     | 0.000          | 0.007 | 0.007                 | 11/20/2017 | 14:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.017 | 0.017                 | 11/20/2017 | 14:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.04     | 0.000          | 0.038 | 0.038                 | 11/20/2017 | 14:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.63     | 0.000          | 0.079 | 0.079                 | 11/20/2017 | 14:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.80     | 0.000          | 0.395 | 0.395                 | 11/20/2017 | 14:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.89     | 0.000          | 0.775 | 0.775                 | 11/20/2017 | 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            |         | 1.54     | 0.000          | 0.392 | 0.392                 | 0.504  | 11/20/2017 | 14:03     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:04     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.88     | 0.000          | 0.393 | 0.393                 | 0.505  | 11/20/2017 | 14:04     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.80     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:05     |
| 5   | PB104427BL      |                   | 1  | 2.51                | 100            | 7.30    | 2.10     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:05     |
| 6   | PB104427BS      | 20                | 1  | 2.53                | 100            | 7.15    | 2.15     | 0.000          | 0.341 | 0.341                 | 0.438  | 11/20/2017 | 14:06     |
| 7   | I6300-05        |                   | 1  | 2.54                | 100            | 7.18    | 1.98     | 0.010          | 0.010 | 0.000                 | 0.000  | 11/20/2017 | 14:06     |
| 8   | I6306-01        |                   | 1  | 2.50                | 100            | 7.02    | 2.00     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/20/2017 | 14:07     |
| 9   | I6306-01DUP     |                   | 1  | 2.55                | 100            | 7.12    | 2.06     | 0.012          | 0.012 | 0.000                 | 0.000  | 11/20/2017 | 14:07     |
| 10  | I6306-01MSPre   | 40                | 2  | 2.54                | 100            | 7.25    | 2.40     | 0.014          | 0.279 | 0.265                 | 0.341  | 11/20/2017 | 14:08     |
| 11  | I6306-01MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.19    | 1.89     | 0.011          | 0.610 | 0.599                 | 0.770  | 11/20/2017 | 14:08     |
| 12  | I6306-01MS3Post | 40                | 2  | 2.53                | 100            | 7.20    | 1.78     | 0.015          | 0.320 | 0.305                 | 0.392  | 11/20/2017 | 14:09     |
| 13  | I6311-05        |                   | 1  | 2.51                | 100            | 7.22    | 1.56     | 0.022          | 0.022 | 0.000                 | 0.000  | 11/20/2017 | 14:09     |
| 14  | I6517-01        |                   | 1  | 2.50                | 100            | 7.24    | 2.03     | 0.043          | 0.043 | 0.000                 | 0.000  | 11/20/2017 | 14:10     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.09     | 0.000          | 0.393 | 0.393                 | 0.505  | 11/20/2017 | 14:10     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.10     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:11     |
| 17  | I6535-01        |                   | 1  | 2.54                | 100            | 7.28    | 1.98     | 0.020          | 0.020 | 0.000                 | 0.000  | 11/20/2017 | 14:11     |
| 18  | I6538-01        |                   | 1  | 2.50                | 100            | 7.12    | 1.69     | 0.005          | 0.005 | 0.000                 | 0.000  | 11/20/2017 | 14:12     |
| 19  | I6548-01        |                   | 1  | 2.52                | 100            | 7.23    | 2.33     | 0.018          | 0.018 | 0.000                 | 0.000  | 11/20/2017 | 14:12     |
| 20  | I6548-02        |                   | 1  | 2.53                | 100            | 7.56    | 2.45     | 0.039          | 0.039 | 0.000                 | 0.000  | 11/20/2017 | 14:13     |
| 21  | I6548-03        |                   | 1  | 2.51                | 100            | 7.42    | 2.10     | 0.018          | 0.018 | 0.000                 | 0.000  | 11/20/2017 | 14:13     |
| 22  | I6548-04        |                   | 1  | 2.52                | 100            | 7.26    | 1.55     | 0.019          | 0.019 | 0.000                 | 0.000  | 11/20/2017 | 14:14     |
| 23  | I6548-05        |                   | 1  | 2.54                | 100            | 7.54    | 1.95     | 0.022          | 0.022 | 0.000                 | 0.000  | 11/20/2017 | 14:14     |
| 24  | I6548-06        |                   | 1  | 2.55                | 100            | 7.21    | 1.65     | 0.013          | 0.013 | 0.000                 | 0.000  | 11/20/2017 | 14:15     |
| 25  | I6548-07        |                   | 1  | 2.50                | 100            | 7.65    | 2.09     | 0.015          | 0.015 | 0.000                 | 0.000  | 11/20/2017 | 14:16     |
| 26  | I6548-08        |                   | 1  | 2.51                | 100            | 7.55    | 2.44     | 0.012          | 0.012 | 0.000                 | 0.000  | 11/20/2017 | 14:16     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.32     | 0.000          | 0.393 | 0.393                 | 0.505  | 11/20/2017 | 14:17     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 2.23     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:17     |
| 29  | I6548-09        |                   | 1  | 2.52                | 100            | 7.42    | 2.25     | 0.016          | 0.016 | 0.000                 | 0.000  | 11/20/2017 | 14:18     |
| 30  | I6548-10        |                   | 1  | 2.55                | 100            | 7.21    | 2.45     | 0.023          | 0.023 | 0.000                 | 0.000  | 11/20/2017 | 14:18     |
| 31  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.89     | 0.000          | 0.393 | 0.393                 | 0.505  | 11/20/2017 | 14:19     |
| 32  | CCB4            |                   | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.000 | 0.000                 | 0.000  | 11/20/2017 | 14:19     |