

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB92482

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP60729   |
| Calibration Std. hexchrome 0.05 ppm   | WP60728   |
| 5N sulfuric acid                      | WP56414   |
| Calibratation STD HexaChrome 1 PPM    | WP60730   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP60726   |
| calibration std. hexchrome 0.01 ppm   | WP60725   |
| calibration std. hexchrome 0 ppm      | WP60724   |
| Hexavalent Chromium ICV Std.          | WP60731   |
| Hexavalent Chromium CCV Std           | WP60732   |
| hexavalent chromium color reagent     | WP60692   |
| HNO3 Hex-Chrome, 5M                   | WP60720   |
| Calibration std Hexachrome, 0.025ppm  | WP60727   |

Intercept: 0.0003

Slope: 0.7755

Regression: 0.999955

| 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            |         | 2.11     | 0.000          | 0.000 | 0.000                 | 01/04/2018 | 14:40     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.78     | 0.000          | 0.008 | 0.008                 | 01/04/2018 | 14:40     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.85     | 0.000          | 0.018 | 0.018                 | 01/04/2018 | 14:41     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.37     | 0.000          | 0.039 | 0.039                 | 01/04/2018 | 14:41     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.21     | 0.000          | 0.077 | 0.077                 | 01/04/2018 | 14:42     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.67     | 0.000          | 0.394 | 0.394                 | 01/04/2018 | 14:42     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.40     | 0.000          | 0.773 | 0.773                 | 01/04/2018 | 14:43     |



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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            |         | 2.01     | 0.000          | 0.390 | 0.390                 | 0.503  | 01/04/2018 | 14:43     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 1.95     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:44     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.58     | 0.000          | 0.391 | 0.391                 | 0.504  | 01/04/2018 | 14:44     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:45     |
| 5   | PB105486BL      |                   | 1  | 2.55                | 100            | 7.13    | 2.30     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:45     |
| 6   | PB105486BS      | 20                | 1  | 2.53                | 100            | 7.20    | 1.83     | 0.000          | 0.368 | 0.368                 | 0.474  | 01/04/2018 | 14:46     |
| 7   | J1012-01        |                   | 1  | 2.50                | 100            | 7.44    | 2.22     | 0.012          | 0.012 | 0.000                 | 0.000  | 01/04/2018 | 14:46     |
| 8   | J1012-01DUP     |                   | 1  | 2.51                | 100            | 7.69    | 2.47     | 0.017          | 0.017 | 0.000                 | 0.000  | 01/04/2018 | 14:47     |
| 9   | J1012-01MSPre   | 40                | 2  | 2.54                | 100            | 7.12    | 1.73     | 0.013          | 0.350 | 0.337                 | 0.434  | 01/04/2018 | 14:47     |
| 10  | J1012-01MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.06    | 2.34     | 0.010          | 0.602 | 0.592                 | 0.763  | 01/04/2018 | 14:48     |
| 11  | J1012-01MS3Post | 40                | 2  | 2.51                | 100            | 7.22    | 2.21     | 0.015          | 0.359 | 0.344                 | 0.443  | 01/04/2018 | 14:48     |
| 12  | J1012-03        |                   | 1  | 2.54                | 100            | 7.89    | 1.63     | 0.017          | 0.017 | 0.000                 | 0.000  | 01/04/2018 | 14:49     |
| 13  | J1012-05        |                   | 1  | 2.55                | 100            | 7.30    | 1.84     | 0.021          | 0.021 | 0.000                 | 0.000  | 01/04/2018 | 14:49     |
| 14  | J1012-07        |                   | 1  | 2.51                | 100            | 7.04    | 2.10     | 0.016          | 0.016 | 0.000                 | 0.000  | 01/04/2018 | 14:50     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 2.39     | 0.000          | 0.391 | 0.391                 | 0.504  | 01/04/2018 | 14:50     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 1.60     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:51     |
| 17  | J1012-09        |                   | 1  | 2.52                | 100            | 7.62    | 2.09     | 0.022          | 0.023 | 0.001                 | 0.001  | 01/04/2018 | 14:51     |
| 18  | J1012-11        |                   | 1  | 2.50                | 100            | 7.88    | 2.33     | 0.025          | 0.025 | 0.000                 | 0.000  | 01/04/2018 | 14:52     |
| 19  | J1012-13        |                   | 1  | 2.53                | 100            | 7.30    | 1.88     | 0.027          | 0.032 | 0.005                 | 0.006  | 01/04/2018 | 14:52     |
| 20  | J1012-15        |                   | 1  | 2.51                | 100            | 7.16    | 1.92     | 0.010          | 0.010 | 0.000                 | 0.000  | 01/04/2018 | 14:53     |
| 21  | J1027-01        |                   | 1  | 2.55                | 100            | 7.32    | 2.29     | 0.008          | 0.008 | 0.000                 | 0.000  | 01/04/2018 | 14:53     |
| 22  | J1027-03        |                   | 1  | 2.53                | 100            | 7.46    | 2.37     | 0.030          | 0.030 | 0.000                 | 0.000  | 01/04/2018 | 14:54     |
| 23  | J1027-05        |                   | 1  | 2.54                | 100            | 7.51    | 1.62     | 0.027          | 0.027 | 0.000                 | 0.000  | 01/04/2018 | 14:54     |
| 24  | J1033-01        |                   | 1  | 2.50                | 100            | 7.90    | 1.94     | 0.020          | 0.020 | 0.000                 | 0.000  | 01/04/2018 | 14:55     |
| 25  | J1033-02        |                   | 1  | 2.52                | 100            | 7.63    | 2.03     | 0.017          | 0.017 | 0.000                 | 0.000  | 01/04/2018 | 14:55     |
| 26  | J1033-03        |                   | 1  | 2.55                | 100            | 7.11    | 2.21     | 0.026          | 0.026 | 0.000                 | 0.000  | 01/04/2018 | 14:56     |
| 27  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.44     | 0.000          | 0.392 | 0.392                 | 0.505  | 01/04/2018 | 14:56     |
| 28  | CCB3            |                   | 1  | 100                 | 100            |         | 1.98     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:57     |
| 29  | J1033-04        |                   | 1  | 2.54                | 100            | 7.36    | 1.73     | 0.019          | 0.019 | 0.000                 | 0.000  | 01/04/2018 | 14:57     |
| 30  | J1033-05        |                   | 1  | 2.53                | 100            | 7.41    | 2.25     | 0.027          | 0.027 | 0.000                 | 0.000  | 01/04/2018 | 14:58     |
| 31  | J1033-06        |                   | 1  | 2.50                | 100            | 7.65    | 2.30     | 0.032          | 0.032 | 0.000                 | 0.000  | 01/04/2018 | 14:58     |
| 32  | CCV4            | 0.5               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.392 | 0.392                 | 0.505  | 01/04/2018 | 14:59     |
| 33  | CCB4            |                   | 1  | 100                 | 100            |         | 1.77     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/04/2018 | 14:59     |