

# Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB97797

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP67659   |
| Calibration Std. hexchrome 0.05 ppm   | WP67658   |
| 5N sulfuric acid                      | WP65054   |
| Calibratation STD HexaChrome 1 PPM    | WP67661   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP67660   |
| calibration std. hexchrome 0.01 ppm   | WP67656   |
| calibration std. hexchrome 0 ppm      | WP67655   |
| Hexavalent Chromium ICV Std.          | WP67662   |
| Hexavalent Chromium CCV Std           | WP67663   |
| hexavalent chromium color reagent     | WP67600   |
| HNO3 Hex-Chrome, 5M                   | WP65055   |
| Calibration std Hexachrome, 0.025ppm  | WP67657   |

Intercept: -0.0001

Slope: 0.7721

Regression: 0.999978

| 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                 | 09/07/2018 | 13:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 2.16     | 0.000          | 0.007 | 0.007                 | 09/07/2018 | 13:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 1.84     | 0.000          | 0.018 | 0.018                 | 09/07/2018 | 13:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.30     | 0.000          | 0.038 | 0.038                 | 09/07/2018 | 13:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 2.17     | 0.000          | 0.077 | 0.077                 | 09/07/2018 | 13:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 2.25     | 0.000          | 0.390 | 0.390                 | 09/07/2018 | 13:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 1.74     | 0.000          | 0.770 | 0.770                 | 09/07/2018 | 13:03     |



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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            |         | 2.40     | 0.000          | 0.391 | 0.391                 | 0.507  | 09/07/2018 | 13:03     |
| 2   | ICB             |                   | 1  | 100                 | 100            |         | 2.11     | 0.000          | 0.000 | 0.000                 | 0.000  | 09/07/2018 | 13:04     |
| 3   | CCV1            | 0.5               | 1  | 100                 | 100            |         | 1.73     | 0.000          | 0.391 | 0.391                 | 0.507  | 09/07/2018 | 13:04     |
| 4   | CCB1            |                   | 1  | 100                 | 100            |         | 1.95     | 0.000          | 0.000 | 0.000                 | 0.000  | 09/07/2018 | 13:05     |
| 5   | PB112700BL      |                   | 1  | 2.53                | 100            | 7.30    | 2.19     | 0.000          | 0.000 | 0.000                 | 0.000  | 09/07/2018 | 13:05     |
| 6   | PB112700BS      | 20                | 1  | 2.55                | 100            | 7.21    | 2.30     | 0.000          | 0.386 | 0.386                 | 0.500  | 09/07/2018 | 13:06     |
| 7   | J4774-01        |                   | 1  | 2.50                | 100            | 7.16    | 1.78     | 0.022          | 0.022 | 0.000                 | 0.000  | 09/07/2018 | 13:06     |
| 8   | J4775-01        |                   | 1  | 2.51                | 100            | 7.33    | 1.66     | 0.019          | 0.019 | 0.000                 | 0.000  | 09/07/2018 | 13:07     |
| 9   | J4775-03        |                   | 1  | 2.57                | 100            | 7.78    | 2.10     | 0.026          | 0.026 | 0.000                 | 0.000  | 09/07/2018 | 13:07     |
| 10  | J4779-01        |                   | 1  | 2.50                | 100            | 7.90    | 2.06     | 0.015          | 0.015 | 0.000                 | 0.000  | 09/07/2018 | 13:08     |
| 11  | J4779-03        |                   | 1  | 2.51                | 100            | 7.61    | 1.69     | 0.013          | 0.013 | 0.000                 | 0.000  | 09/07/2018 | 13:08     |
| 12  | J4779-03DUP     |                   | 1  | 2.54                | 100            | 7.74    | 1.74     | 0.012          | 0.012 | 0.000                 | 0.000  | 09/07/2018 | 13:09     |
| 13  | J4779-03MSPre   | 40                | 2  | 2.50                | 100            | 7.82    | 2.46     | 0.015          | 0.374 | 0.359                 | 0.465  | 09/07/2018 | 13:09     |
| 14  | J4779-03MS2Ins  | 1284              | 40 | 2.50                | 100            | 7.95    | 2.20     | 0.011          | 0.577 | 0.566                 | 0.733  | 09/07/2018 | 13:10     |
| 15  | CCV2            | 0.5               | 1  | 100                 | 100            |         | 1.69     | 0.000          | 0.392 | 0.392                 | 0.508  | 09/07/2018 | 13:10     |
| 16  | CCB2            |                   | 1  | 100                 | 100            |         | 2.24     | 0.000          | 0.000 | 0.000                 | 0.000  | 09/07/2018 | 13:11     |
| 17  | J4779-03MS3Post | 40                | 2  | 2.50                | 100            | 7.17    | 2.04     | 0.016          | 0.379 | 0.363                 | 0.470  | 09/07/2018 | 13:11     |
| 18  | J4809-01        |                   | 1  | 2.55                | 100            | 7.20    | 1.58     | 0.009          | 0.009 | 0.000                 | 0.000  | 09/07/2018 | 13:12     |
| 19  | J4809-05        |                   | 1  | 2.51                | 100            | 7.32    | 1.67     | 0.056          | 0.056 | 0.000                 | 0.000  | 09/07/2018 | 13:12     |
| 20  | CCV3            | 0.5               | 1  | 100                 | 100            |         | 2.35     | 0.000          | 0.392 | 0.392                 | 0.508  | 09/07/2018 | 13:13     |
| 21  | CCB3            |                   | 1  | 100                 | 100            |         | 2.21     | 0.000          | 0.000 | 0.000                 | 0.000  | 09/07/2018 | 13:13     |