



## Analytical Summary Report

Analysis Method: 7196A

ANALYST: Indiana

Parameter: Hexavalent Chromium

SUPERVISOR REVIEW BY: apatel

Run Number: LB100263

pH Meter ID: WC pH Meter-1

| Reagent/Standard                      | Lot/Log # |
|---------------------------------------|-----------|
| Calibration Std. hexchrome 0.1 ppm    | WP70825   |
| Calibration Std. hexchrome 0.05 ppm   | WP70824   |
| Hexavalent Chromium LCS Std           | WP70829   |
| Calibratation STD HexaChrome 1 PPM    | WP70827   |
| Calibratation STD Hexa Chrome 0.5 PPM | WP70814   |
| calibration std. hexchrome 0.01 ppm   | WP70822   |
| calibration std. hexchrome 0 ppm      | WP70819   |
| Hexavalent Chromium ICV Std.          | WP70828   |
| Hexavalent Chromium CCV Std           | WP70830   |
| hexavalent chromium color reagent     | WP70831   |
| HNO3 Hex-Chrome, 5M                   | WP70045   |
| Calibration std Hexachrome, 0.025ppm  | WP70823   |

Intercept: 0.0002

Slope: 0.7719

Regression: 0.99999

| 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            |         | 1.73     | 0.000          | 0.000 | 0.000                 | 01/10/2019 | 09:00     |
| 2   | CAL2   | 0.01              | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.007 | 0.007                 | 01/10/2019 | 09:00     |
| 3   | CAL3   | 0.025             | 1  | 100                 | 100            |         | 2.19     | 0.000          | 0.018 | 0.018                 | 01/10/2019 | 09:01     |
| 4   | CAL4   | 0.05              | 1  | 100                 | 100            |         | 2.30     | 0.000          | 0.039 | 0.039                 | 01/10/2019 | 09:01     |
| 5   | CAL5   | 0.1               | 1  | 100                 | 100            |         | 1.57     | 0.000          | 0.079 | 0.079                 | 01/10/2019 | 09:02     |
| 6   | CAL6   | 0.5               | 1  | 100                 | 100            |         | 1.90     | 0.000          | 0.388 | 0.388                 | 01/10/2019 | 09:02     |
| 7   | CAL7   | 1                 | 1  | 100                 | 100            |         | 2.27     | 0.000          | 0.771 | 0.771                 | 01/10/2019 | 09:03     |



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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            |         | 2.35     | 0.000          | 0.392 | 0.392                 | 0.508  | 01/10/2019 | 09:03     |
| 2   | ICB         |                   | 1  | 100                 | 100            |         | 1.71     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/10/2019 | 09:04     |
| 3   | CCV1        | 0.5               | 1  | 100                 | 100            |         | 1.92     | 0.000          | 0.392 | 0.392                 | 0.508  | 01/10/2019 | 09:04     |
| 4   | CCB1        |                   | 1  | 100                 | 100            |         | 2.24     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/10/2019 | 09:05     |
| 5   | LB100263BL  |                   | 1  | 100                 | 100            |         | 2.18     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/10/2019 | 09:05     |
| 6   | LB100263BS  | 0.5               | 1  | 100                 | 100            |         | 1.66     | 0.000          | 0.377 | 0.377                 | 0.488  | 01/10/2019 | 09:06     |
| 7   | K1104-01    |                   | 1  | 100                 | 100            |         | 1.71     | 0.003          | 0.003 | 0.000                 | 0.000  | 01/10/2019 | 09:06     |
| 8   | K1104-01DUP |                   | 1  | 100                 | 100            |         | 2.38     | 0.004          | 0.004 | 0.000                 | 0.000  | 01/10/2019 | 09:07     |
| 9   | K1104-01MS  | 1                 | 2  | 100                 | 100            |         | 2.15     | 0.004          | 0.369 | 0.365                 | 0.473  | 01/10/2019 | 09:07     |
| 10  | K1104-01MSD | 1                 | 2  | 100                 | 100            |         | 1.77     | 0.004          | 0.370 | 0.366                 | 0.474  | 01/10/2019 | 09:08     |
| 11  | K1104-03    |                   | 1  | 100                 | 100            |         | 1.81     | 0.015          | 0.015 | 0.000                 | 0.000  | 01/10/2019 | 09:08     |
| 12  | K1104-05    |                   | 1  | 100                 | 100            |         | 2.18     | 0.015          | 0.490 | 0.475                 | 0.615  | 01/10/2019 | 09:09     |
| 13  | K1104-07    |                   | 1  | 100                 | 100            |         | 2.30     | 0.009          | 1.113 | 1.104                 | 1.430  | 01/10/2019 | 09:09     |
| 14  | K1104-07    |                   | 10 | 100                 | 100            |         | 2.30     | 0.000          | 0.135 | 0.135                 | 0.175  | 01/10/2019 | 09:10     |
| 15  | CCV2        | 0.5               | 1  | 100                 | 100            |         | 1.73     | 0.000          | 0.392 | 0.392                 | 0.508  | 01/10/2019 | 09:10     |
| 16  | CCB2        |                   | 1  | 100                 | 100            |         | 2.06     | 0.000          | 0.000 | 0.000                 | 0.000  | 01/10/2019 | 09:11     |

LB100263

## WORKLIST(Hardcopy Internal Chain)

WorkList Name : Hexw011019

WorkList ID : 121199

Date : 1/10/2019 8:45:48 AM

| Due Date   | Matrix | Sample   | Test                | Preservative | Customer | Storage Location | Customer Sample       | Collect Date | Method |
|------------|--------|----------|---------------------|--------------|----------|------------------|-----------------------|--------------|--------|
| 01/10/2019 | Water  | K1104-01 | Hexavalent Chromium | Cool 4 deg C | JACO05   | F31              | EB-01092019-01        | 01/09/2019   | 7196A  |
| 01/10/2019 | Water  | K1104-03 | Hexavalent Chromium | Cool 4 deg C | JACO05   | F31              | EPA-EX-1-OB-01092019  | 01/09/2019   | 7196A  |
| 01/10/2019 | Water  | K1104-05 | Hexavalent Chromium | Cool 4 deg C | JACO05   | F31              | EPA-EX-2-OB-01092019  | 01/09/2019   | 7196A  |
| 01/10/2019 | Water  | K1104-07 | Hexavalent Chromium | Cool 4 deg C | JACO05   | F31              | EPA-MW-37-BR-01092019 | 01/09/2019   | 7196A  |

Date/Time

Received by:

Relinquished by:

01/10/19 9:50

IB

CB

Date/Time

Received by:

Relinquished by:

01/10/19 12:00

CB

IB