CHEMTECH

# Analytical Summary Report

Analysis Method: 7196A
Parameter: Hexavalent Chromium
Run Number: LB96798

ANALYST: Indiana
SUPERVISOR REVIEW BY: apatel
pH Meter ID: WC pH Meter-1

| Reagent/Standard | Lot/Log # |
|---|---|
| Calibration Std. hexchrome 0.1 ppm | WP66321 |
| Calibration Std. hexchrome 0.05 ppm | WP66320 |
| 5N sulfuric acid | WP65054 |
| Calibratation STD HexaChrome 1 PPM | WP66323 |
| Calibratation STD Hexa Chrome 0.5 PPM | WP66322 |
| calibration std. hexchrome 0.01 ppm | WP66318 |
| calibration std. hexchrome 0 ppm | WP66317 |
| Hexavalent Chromium ICV Std. | WP66324 |
| Hexavalent Chromium CCV Std | WP66325 |
| hexavalent chromium color reagent | WP66331 |
| HNO3 Hex-Chrome, 5M | WP65055 |
| Calibration std Hexachrome, 0.025ppm | WP66319 |

**Intercept:** 0.0003 **Slope:** 0.765 **Regression:** 0.999982

| 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 | | 1.81 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:30 |
| 2 | CAL2 | 0.01 | 1 | 100 | 100 | | 2.40 | 0.000 | 0.007 | 0.007 | 07/20/2018 | 14:30 |
| 3 | CAL3 | 0.025 | 1 | 100 | 100 | | 1.56 | 0.000 | 0.017 | 0.017 | 07/20/2018 | 14:31 |
| 4 | CAL4 | 0.05 | 1 | 100 | 100 | | 1.92 | 0.000 | 0.039 | 0.039 | 07/20/2018 | 14:31 |
| 5 | CAL5 | 0.1 | 1 | 100 | 100 | | 2.35 | 0.000 | 0.079 | 0.079 | 07/20/2018 | 14:32 |
| 6 | CAL6 | 0.5 | 1 | 100 | 100 | | 2.11 | 0.000 | 0.385 | 0.385 | 07/20/2018 | 14:32 |
| 7 | CAL7 | 1 | 1 | 100 | 100 | | 1.78 | 0.000 | 0.764 | 0.764 | 07/20/2018 | 14:33 |

CHEMTECH

# Analytical Summary Report

Analysis Method: 7196A
ANALYST: Indiana
Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY: apatel
Run Number: LB96798
pH Meter ID: WC pH Meter-1

| 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 | | 1.58 | 0.000 | 0.386 | 0.386 | 0.504 | 07/20/2018 | 14:33 |
| 2 | ICB | | 1 | 100 | 100 | | 2.22 | 0.000 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:34 |
| 3 | CCV1 | 0.5 | 1 | 100 | 100 | | 2.17 | 0.000 | 0.387 | 0.387 | 0.505 | 07/20/2018 | 14:34 |
| 4 | CCB1 | | 1 | 100 | 100 | | 1.77 | 0.000 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:35 |
| 5 | PB111333BL | | 1 | 2.53 | 100 | 7.23 | 1.64 | 0.000 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:35 |
| 6 | PB111333BS | 20 | 1 | 2.50 | 100 | 7.10 | 1.83 | 0.000 | 0.369 | 0.369 | 0.482 | 07/20/2018 | 14:36 |
| 7 | J3820-05 | | 1 | 2.54 | 100 | 7.18 | 2.37 | 0.027 | 0.027 | 0.000 | 0.000 | 07/20/2018 | 14:36 |
| 8 | J3827-03 | | 1 | 2.51 | 100 | 7.25 | 2.45 | 0.017 | 0.017 | 0.000 | 0.000 | 07/20/2018 | 14:37 |
| 9 | J4081-01 | | 1 | 2.50 | 100 | 7.33 | 1.73 | 0.010 | 0.010 | 0.000 | 0.000 | 07/20/2018 | 14:37 |
| 10 | J4090-01 | | 1 | 2.55 | 100 | 7.40 | 1.85 | 0.021 | 0.021 | 0.000 | 0.000 | 07/20/2018 | 14:38 |
| 11 | J4095-03 | | 1 | 2.54 | 100 | 7.68 | 2.14 | 0.020 | 0.020 | 0.000 | 0.000 | 07/20/2018 | 14:38 |
| 12 | J4095-10 | | 1 | 2.54 | 100 | 7.85 | 2.17 | 0.018 | 0.018 | 0.000 | 0.000 | 07/20/2018 | 14:39 |
| 13 | J4095-10DUP | | 1 | 2.50 | 100 | 7.90 | 1.60 | 0.017 | 0.017 | 0.000 | 0.000 | 07/20/2018 | 14:39 |
| 14 | J4095-11Pre | 40 | 2 | 2.55 | 100 | 7.23 | 2.20 | 0.019 | 0.196 | 0.177 | 0.231 | 07/20/2018 | 14:40 |
| 15 | CCV2 | 0.5 | 1 | 100 | 100 | | 2.16 | 0.000 | 0.387 | 0.387 | 0.505 | 07/20/2018 | 14:40 |
| 16 | CCB2 | | 1 | 100 | 100 | | 1.90 | 0.000 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:41 |
| 17 | J4095-112Ins | 1284 | 40 | 2.55 | 100 | 7.40 | 2.08 | 0.015 | 0.588 | 0.573 | 0.749 | 07/20/2018 | 14:41 |
| 18 | J4095-113Post | 40 | 2 | 2.55 | 100 | 7.56 | 2.25 | 0.020 | 0.207 | 0.187 | 0.244 | 07/20/2018 | 14:42 |
| 19 | J4095-12 | 40 | 2 | 2.53 | 100 | 7.23 | 2.20 | 0.019 | 0.196 | 0.177 | 0.231 | 07/20/2018 | 14:42 |
| 20 | J4095-13 | | 1 | 2.51 | 100 | 7.66 | 2.30 | 0.009 | 0.009 | 0.000 | 0.000 | 07/20/2018 | 14:43 |
| 21 | CCV3 | 0.5 | 1 | 100 | 100 | | 1.79 | 0.000 | 0.387 | 0.387 | 0.505 | 07/20/2018 | 14:43 |
| 22 | CCB3 | | 1 | 100 | 100 | | 2.35 | 0.000 | 0.000 | 0.000 | 0.000 | 07/20/2018 | 14:44 |