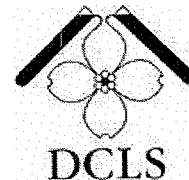


Commonwealth of Virginia
Division of Consolidated Laboratory Services

600 North 5th St.
Richmond, Virginia 23219
804-648-4480



REPORT OF ANALYSIS

Report Date: 11/26/2013
DCLS LIMS #: E130805674

Mail To

STAFFORD COUNTY UTILITIES
P O BOX 339
STAFFORD, VA 22555

PWSID 6179100
REGION 6

ATTN: JANET SPENCER

Sample Information

| | | | |
|---------------|--------------------|--------------|-------------------------------|
| DATE RECEIVED | 11/06/2013 11:49 | LOCATION | SMITH LAKE FINISHED WATER TAP |
| SAMPLING DATE | 11/05/2013 10:10 | FACILITY | EP001 |
| COLLECTED BY | E WOOLFOLK | COMPLIANCE | Y |
| SAMPLE MATRIX | DRINKING WATER | TYPE | RT |
| ORDERED TEST | 206-095 INORGANICS | CATEGORY | GE |
| PROJECT NAME | DW2013-Q4 | ORDER NUMBER | 80132953 |

Test Results

APPROVED BY: CMORTON, Scientist Senior DATE APPROVED: 11/26/2013

| <u>METHOD</u> | <u>PARAMETER</u> | <u>RESULT</u> | <u>PMCL</u> | <u>SMCL</u> | <u>ANALYSIS DATE</u> |
|--------------------------------|--|---------------|-------------|-------------|----------------------|
| <u>EPA 300.0</u> | Chloride | 12.8 mg/L | | 250 | 11/06/2013 22:05 |
| | Sulfate | 32.9 mg/L | | 250 | 11/06/2013 22:05 |
| | Ortho Phosphate as P | 0.29 mg/L | | | 11/06/2013 22:05 |
| <u>SM 2320B/4500H+B</u> | Alkalinity, Total | 27.7 mg/L | | | 11/15/2013 12:35 |
| | pH @19.10 °C | 6.00 S.U. | | 6.5 - 8.5 | 11/15/2013 12:35 |
| | <i>PARAMETER QUALIFIER: Sample processed out of holding time. Result bias unknown.</i> | | | | |
| <u>SM 2510B</u> | Specific Conductance | 188 µmhos/cm | | | 11/18/2013 12:33 |
| <u>SM 2540C</u> | Total Dissolved Solids | 113 mg/L | | 500 | 11/21/2013 17:00 |
| <u>380-75 WE</u> | FLUORIDE | 0.72 ppm | 4 | 2 | 11/07/2013 19:30 |
| <u>SM 2120 B</u> | Color-PCU @ pH 8.7 | < 5 PCU | | 15 | 11/06/2013 16:07 |
| <u>SM 2130 B</u> | Turbidity | 0.20 NTU | | | 11/07/2013 10:12 |
| <u>SM 2330B</u> | Aggressive Index | 8.72 AI | | | 11/26/2013 09:10 |
| <u>ASTM D6919-03/SM 2340 B</u> | Calcium Hardness | 19 mg/L | | | 11/07/2013 10:33 |
| | Hardness-Total | 32 mg/L | | | 11/07/2013 10:33 |

Explanation of Terms and Disclaimers

PMCL is defined as the "Primary Maximum Contaminant Level." SMCL is defined as the "Secondary Maximum Contaminant Level". If blank, level not defined by EPA. Results denoted with an asterisk (*) indicate that the PMCL is exceeded. Test Results meet all requirements of NELAC. Non-NELAC accredited analyses noted by ^^. The results included on this report relate only to this specific sample and not to other samples tested from this sampling location.

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REPORT OF ANALYSIS

Report Date: 11/19/2013
DCLS LIMS # E130805670

Mail To

STAFFORD COUNTY UTILITIES
P O BOX 339
STAFFORD, VA 22555

PWSID 6179100
REGION 6

ATTN: JANET SPENCER

Sample Information

| | | | |
|---------------|-------------------|--------------|-------------------------------|
| DATE RECEIVED | 11/06/2013 13:05 | LOCATION | SMITH LAKE FINISHED WATER TAP |
| SAMPLING DATE | 11/05/2013 10:14 | FACILITY | EP001 |
| COLLECTED BY | E.WOOLFOLK | COMPLIANCE | Y |
| SAMPLE MATRIX | DRINKING WATER | TYPE | RT |
| ORDERED TEST | 206-094 DW-METALS | CATEGORY | GE |
| PROJECT NAME | DW2013-Q4 | ORDER NUMBER | 80132953 |

Test Results

APPROVED BY: MMOUER, Scientist, Senior DATE APPROVED: 11/19/2013

| <u>METHOD</u> | <u>PARAMETER</u> | <u>RESULT</u> | <u>PMCL</u> | <u>SMCL</u> | <u>ANALYSIS DATE</u> |
|------------------|------------------|---------------|-------------|-------------|----------------------|
| <u>EPA 200.7</u> | Iron ✓ | < 0.05 ppm | | 0.3 | 11/07/2013 |
| | Sodium ✓ | 23.2 ppm | | | 11/07/2013 |
| | Silver ✓ | < 0.01 ppm | | 0.10 | 11/07/2013 |
| <u>EPA 200.8</u> | Beryllium ✓ | < 0.002 ppm | 0.004 | | 11/14/2013 |
| | Aluminum ✓ | < 0.05 ppm | | 0.05 - 0.2 | 11/14/2013 |
| | Chromium ✓ | < 0.01 ppm | 0.1 | | 11/14/2013 |
| | Manganese ✓ | < 0.01 ppm | | 0.05 | 11/14/2013 |
| | Nickel ✓ | < 0.01 ppm | | | 11/14/2013 |
| | Copper ✓ | < 0.010 ppm | 1.3 | | 11/14/2013 |
| | Zinc ✓ | < 0.010 ppm | | 5 | 11/14/2013 |
| | Arsenic ✓ | < 0.002 ppm | 0.010 | | 11/14/2013 |
| | Selenium ✓ | < 0.01 ppm | 0.05 | | 11/14/2013 |
| | Cadmium ✓ | < 0.002 ppm | 0.005 | | 11/14/2013 |
| | Antimony ✓ | < 0.002 ppm | 0.006 | | 11/14/2013 |
| | Barium ✓ | 0.012 ppm | 2 | | 11/14/2013 |
| | Mercury ✓ | < 0.0002 ppm | 0.002 | | 11/14/2013 |
| | Thallium ✓ | < 0.002 ppm | 0.002 | | 11/14/2013 |
| | Lead ✓ | < 0.002 ppm | 0.015 | | 11/14/2013 |

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