



Life Science Laboratories, Inc.

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Laboratory Analysis Report Prepared For Wellsville Water Treatment Plant

LSL Project ID: 2100827

Receive Date/Time: 01/19/21 13:05

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LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13657
Tel. (315) 445-1900
Fax (315) 445-1104
NYS DOH ELAP #10248

LSL North Lab
131 St. Lawrence Avenue
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Tel. (315) 388-4476
Fax (315) 388-4061
NYS DOH ELAP #10900

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
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Tel. (585) 213-4090
Fax (585) 213-4192
NYS DOH ELAP #11667

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

Reviewed by: 
Kristin E. Carpenter, Quality Staff

Date: 02/10/21

-- LABORATORY ANALYSIS REPORT --

Wellsville Water Treatment Plant Wellsville, NY

| | | | |
|-----------------------|---------------|-----------------------|-------------|
| Sample ID: | Entry Point | LSL Sample ID: | 2100827-001 |
| Location: | | | |
| Sampled: | 01/19/21 8:30 | Sampled By: | DH |
| Sample Matrix: | PWS | | |

| Analytical Method Analyte | Result | Units | Prep Method | Prep Date | Analysis Date & Time | Analyst Initials |
|--|--------|-------|-------------|-----------|----------------------|------------------|
| (1) EPA 200.7, Rev. 4.4 (1994) Metals Please refer to the next page | | | EPA 200.2 | | | MT |
| (1) EPA 200.8, Rev. 5.4 Metals Please refer to the next page | | | EPA 200.2 | | | MT |
| (1) EPA 335.4 Rev. 1.0, Rev. 1.0 Total Cyanide Cyanide, Total | <0.005 | mg/l | | 1/26/21 | 1/26/21 | JJC |
| (1) EPA 524.2 POCs, Vinyl chloride & MTBE | | | | | | |
| Benzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Bromobenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Bromochloromethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| Bromomethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| sec-Butylbenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| n-Butylbenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| tert-Butylbenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Carbon tetrachloride | <0.5 | ug/l | | | 1/25/21 | AAP |
| Chlorobenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Chloroethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| Chloromethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 2-Chlorotoluene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 4-Chlorotoluene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Dibromomethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,2-Dichlorobenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,3-Dichlorobenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,4-Dichlorobenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Dichlorodifluoromethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,1-Dichloroethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,2-Dichloroethane | <0.5 | ug/l | | | 1/25/21 | AAP |
| cis-1,2-Dichloroethene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,1-Dichloroethene | <0.5 | ug/l | | | 1/25/21 | AAP |
| trans-1,2-Dichloroethene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,2-Dichloropropane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,3-Dichloropropane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 2,2-Dichloropropane | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,1-Dichloropropene | <0.5 | ug/l | | | 1/25/21 | AAP |
| cis-1,3-Dichloropropene | <0.5 | ug/l | | | 1/25/21 | AAP |
| trans-1,3-Dichloropropene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Ethyl benzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Hexachlorobutadiene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Isopropylbenzene (Cumene) | <0.5 | ug/l | | | 1/25/21 | AAP |
| 4-Isopropyl toluene (Cymene) | <0.5 | ug/l | | | 1/25/21 | AAP |
| Methylene chloride | <0.5 | ug/l | | | 1/25/21 | AAP |
| n-Propylbenzene | <0.5 | ug/l | | | 1/25/21 | AAP |
| Styrene | <0.5 | ug/l | | | 1/25/21 | AAP |
| 1,1,1,2-Tetrachloroethane | <0.5 | ug/l | | | 1/25/21 | AAP |

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

State Certification No: 10248

CLIENT: Life Science Labs-LIMS
Project: Wellsville Water Treatment Plant
Location:
Matrix: PWS

Client Sample ID: *Entry Point*
Lab ID: 2100827-001D
Collection Date: 01/19/21 8:40
Date Received: 01/19/21 13:05

| Analyte | Result and Qualifiers | Units | Date Analyzed |
|----------------------------|-----------------------|--|----------------|
| TOTAL METALS BY ICP | | EPA 200.7,Rev.4.4(1994) (EPA 200.2) | |
| Sodium | 10 | mg/L | 02/01/21 17:21 |

- Qualifiers:**
- * Value may exceed the Acceptable Level
 - E Value exceeds the instrument calibration range
 - J Analyte detected below the PQL
 - P Prim./Conf. column %D or RPD exceeds limit
 - B Analyte detected in the associated Method Blank
 - H Holding times for preparation or analysis exceeded
 - ND Not Detected at the Practical Quantitation Limit (PQL)
 - S Spike Recovery outside accepted recovery limits



Life Science Laboratories, Inc.
 5854 Butternut Drive
 East Syracuse, NY 13057 (315) 445-1900

Analytical Results

State Certification No: 10248

CLIENT: Life Science Labs-LIMS
Project: Wellsvile Water Treatment Plant
Location:
Matrix: PWS

Client Sample ID: *Entry Point*

Lab ID: 2100827-001F
Collection Date: 01/19/21 8:50
Date Received: 01/19/21 13:05

| Analyte | Result and Qualifiers | Units | Date Analyzed |
|------------------------|-----------------------|--------------------------|--------------------|
| METALS BY ICPMS | | EPA 200.8,Rev.5.4 | (EPA 200.2) |
| Antimony | < 0.00040 | mg/L | 02/01/21 16:15 |
| Arsenic | < 0.0010 | mg/L | 02/01/21 16:15 |
| Barium | 0.046 | mg/L | 02/01/21 16:15 |
| Beryllium | < 0.00030 | mg/L | 02/01/21 16:15 |
| Cadmium | < 0.0010 | mg/L | 02/01/21 16:15 |
| Chromium | < 0.0010 | mg/L | 02/01/21 16:15 |
| Mercury | < 0.00020 | mg/L | 02/04/21 15:17 |
| Nickel | 0.00067 | mg/L | 02/01/21 16:15 |
| Selenium | < 0.0010 | mg/L | 02/01/21 16:15 |
| Thallium | < 0.00030 | mg/L | 02/01/21 16:15 |

Qualifiers:

- * Value may exceed the Acceptable Level
- E Value exceeds the instrument calibration range
- J Analyte detected below the PQL
- P Prim./Conf. column %D or RPD exceeds limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Practical Quantitation Limit (PQL)
- S Spike Recovery outside accepted recovery limits

-- LABORATORY ANALYSIS REPORT --

Wellsville Water Treatment Plant Wellsville, NY

| | | | |
|-----------------------|---------------|-----------------------|-------------|
| Sample ID: | Entry Point | LSL Sample ID: | 2100827-001 |
| Location: | | | |
| Sampled: | 01/19/21 8:30 | Sampled By: | DH |
| Sample Matrix: | PWS | | |

| Analytical Method Analyte | Result | Prep Method Units | Prep Date | Analysis Date & Time | Analyst Initials |
|--|--------|----------------------|--------------|-------------------------|---------------------|
| <i>(1) EPA 524.2 POCs, Vinyl chloride & MTBE</i> | | | | | |
| 1,1,2-Tetrachloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Tetrachloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| Toluene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,3-Trichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,4-Trichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,1-Trichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,2-Trichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Trichloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| Trichlorofluoromethane (Freon 11) | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,3-Trichloropropane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,4-Trimethylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,3,5-Trimethylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Vinyl chloride | <0.5 | ug/l | | 1/25/21 | AAP |
| MTBE | <0.5 | ug/l | | 1/25/21 | AAP |
| Xylenes (Total) | <0.5 | ug/l | | 1/25/21 | AAP |
| Surrogate (1,2-DCA-d4) | 101 | %R | | 1/25/21 | AAP |
| Surrogate (Tol-d8) | 101 | %R | | 1/25/21 | AAP |
| Surrogate (4-BFB) | 101 | %R | | 1/25/21 | AAP |
| <i>(1) EPA Method 300.0 A</i> | | | | | |
| Fluoride | 0.72 | mg/l | | 1/25/21 10:35 | MT |
| <i>(3) Free Chlorine, (Client Provided)</i> | | | | | |
| Free Available Chlorine | 0.68 | mg/l | | 1/19/21 08:30 | DH |
| <i>(1) Nitrate-N by HACH Method 10206</i> | | | | | |
| Nitrate as N | 1.3 | mg/L | | 1/20/21 16:58 | MT |

Analysis performed at: *(1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab*

- - LABORATORY ANALYSIS REPORT - -

Wellsville Water Treatment Plant Wellsville, NY

| | | | |
|-----------------------|----------------|-----------------------|-------------|
| Sample ID: | Trip Blank | LSL Sample ID: | 2100827-002 |
| Location: | | | |
| Sampled: | 01/04/21 11:25 | Sampled By: | |
| Sample Matrix: | TB | | |

| Analytical Method | | Prep Method | Prep Date | Analysis Date & Time | Analyst Initials |
|--|--------|-------------|-----------|----------------------|------------------|
| Analyte | Result | Units | | | |
| <i>(1) EPA 524.2 POCs, Vinyl chloride & MTBE</i> | | | | | |
| Benzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Bromobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Bromochloromethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Bromomethane | <0.5 | ug/l | | 1/25/21 | AAP |
| sec-Butylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| n-Butylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| tert-Butylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Carbon tetrachloride | <0.5 | ug/l | | 1/25/21 | AAP |
| Chlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Chloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Chloromethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 2-Chlorotoluene | <0.5 | ug/l | | 1/25/21 | AAP |
| 4-Chlorotoluene | <0.5 | ug/l | | 1/25/21 | AAP |
| Dibromomethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2-Dichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,3-Dichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,4-Dichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Dichlorodifluoromethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1-Dichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2-Dichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| cis-1,2-Dichloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1-Dichloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| trans-1,2-Dichloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2-Dichloropropane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,3-Dichloropropane | <0.5 | ug/l | | 1/25/21 | AAP |
| 2,2-Dichloropropane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1-Dichloropropene | <0.5 | ug/l | | 1/25/21 | AAP |
| cis-1,3-Dichloropropene | <0.5 | ug/l | | 1/25/21 | AAP |
| trans-1,3-Dichloropropene | <0.5 | ug/l | | 1/25/21 | AAP |
| Ethyl benzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Hexachlorobutadiene | <0.5 | ug/l | | 1/25/21 | AAP |
| Isopropylbenzene (Cumene) | <0.5 | ug/l | | 1/25/21 | AAP |
| 4-Isopropyl toluene (Cymene) | <0.5 | ug/l | | 1/25/21 | AAP |
| Methylene chloride | <0.5 | ug/l | | 1/25/21 | AAP |
| n-Propylbenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| Styrene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,1,2-Tetrachloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,2,2-Tetrachloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Tetrachloroethene | <0.5 | ug/l | | 1/25/21 | AAP |
| Toluene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,3-Trichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,2,4-Trichlorobenzene | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,1-Trichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| 1,1,2-Trichloroethane | <0.5 | ug/l | | 1/25/21 | AAP |
| Trichloroethene | <0.5 | ug/l | | 1/25/21 | AAP |

Analysis performed at: (1) LSL Central Lab, (2) LSL North Lab, (3) LSL Finger Lakes Lab

-- LABORATORY ANALYSIS REPORT --

Wellsville Water Treatment Plant Wellsville, NY

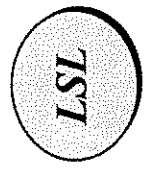
Sample ID: Trip Blank LSL Sample ID: 2100827-002

Location:

Sampled: 01/04/21 11:25 Sampled By:

Sample Matrix: TB

| Analytical Method | Result | Prep Method | Prep Date | Analysis Date & Time | Analyst Initials |
|--|-----------|-------------|-----------|----------------------|------------------|
| Analyte | Units | | | | |
| <i>(1) EPA 524.2 POCs, Vinyl chloride & MTBE</i> | | | | | |
| Trichlorofluoromethane (Freon 11) | <0.5 ug/l | | | 1/25/21 | AAP |
| 1,2,3-Trichloropropane | <0.5 ug/l | | | 1/25/21 | AAP |
| 1,2,4-Trimethylbenzene | <0.5 ug/l | | | 1/25/21 | AAP |
| 1,3,5-Trimethylbenzene | <0.5 ug/l | | | 1/25/21 | AAP |
| Vinyl chloride | <0.5 ug/l | | | 1/25/21 | AAP |
| MTBE | <0.5 ug/l | | | 1/25/21 | AAP |
| Xylenes (Total) | <0.5 ug/l | | | 1/25/21 | AAP |
| Surrogate (1,2-DCA-d4) | 101 %R | | | 1/25/21 | AAP |
| Surrogate (Tol-d8) | 101 %R | | | 1/25/21 | AAP |
| Surrogate (4-BFB) | 101 %R | | | 1/25/21 | AAP |



Life Science Laboratories, Inc.

CHAIN OF CUSTODY RECORD

2100827

LSL Central Lab LSL North Lab LSL Finger Lakes Lab LSL Midlakes Office LSL Southern Tier Office WellsvilleWTP
 5854 Butternut Drive 131 St. Lawrence Ave. 16 N. Main St. 493 S. Main St. 24 W. Main St. 5331
 E. Syracuse, NY 13057 Waddington, N.Y. 13694 Wayland, NY 14572 Canandaigua, NY 14424 Cuba, NY 14727
 p) 315-445-1105 p) 315-388-4476 p) 585-213-4090 p) 585-213-4090 p) 585-209-4032
 f) 315-445-1301 f) 315-388-4061 f) 585-213-4192 f) 585-213-4192
 bowenc@lslinc.com

| Client's Sample Identifications | | Sample Date | Sample Time | Type grab/comp | Matrix | Preservative Added | Containers # | Analyses | Preservative Check | LSL ID# | Turn Around Time For Report | | | |
|---|--|-------------|-------------|----------------|--------|--------------------|--------------|-----------------|--------------------|---------|---|----------------------------------|--|--------|
| | | | | | | | | | | | Standard 14 DAY | RUSH: Pre-Authorization Required | *Additional charges apply to all RUSH turnaround times | |
| Report Address: Dana Harris Village of Wellsville Water District 111 W. State St. Wellsville, NY Phone: 585-593-3333 Email: dana@wellsvillewater.com | | | | | | | | | | | <input checked="" type="checkbox"/> | Next Day* 2-Day* | 3-Day* | 7-Day* |
| Client Project ID/Client Site ID | | | | | | | | | | | Date Needed or Special Instructions: | | | |
| Authorization or P.O. # | | | | | | | | | | | ALL SAMPLES MUST BE KEPT IN REFRIGERATOR & DELIVERED TO LAB ON ICE. | | | |
| entry point | | 11/1/21 | 0830 | grab | PWS | Ascorbic HCl | 2 | POC | | 001A B | | | | |
| " | | " | 0835 | " | " | None | 1 | N03 | | 001C | | | | |
| " | | " | 0840 | " | " | HNO ₃ | 1 | Na | <2 | 001D | | | | |
| " | | " | 0845 | " | " | Ascorbic NaOH | 1 | Cn | >12 | 001E | | | | |
| " | | " | 0850 | " | " | HNO ₃ | 1 | Table 8B Metals | <2 | 001F | | | | |
| " | | " | 0855 | " | " | None | 1 | Fluoride | | 001G | | | | |
| trip blank | | 11/4/21 | 1125 | | TB | Ascorbic HCl | 1 | Trip Blank | | 002A | | | | |
| LSL use only: | | | | | | | | | | | Custody Transfers | | | |
| Samples Received On Ice | | | | | | | | | | | Received By: <i>D. Harris</i> Received By: <i>B. Gary C. Seal</i> Relinquished By: <i>Dana K. Harris</i> Relinquished By: <i>Jordan Shisko</i> Relinquished By: _____ Relinquished By: _____ Shipment Method: _____ Received Infact: Y N | | | |
| Containers this C-O-C | | | | | | | | | | | Date | Time | Sample Temp: 7.9 | |

*** All areas of this Chain of Custody Record MUST be filled out in order to process samples in a timely manner IN PEN ONLY***
 Business and receiving hours vary by location. Please call local lab or 585-213-4090 for more info.