

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
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January 15, 2021

Mike Carpanzano  
Village of Melrose Park Drinking Water  
1002 North 27th Avenue  
Melrose Park, IL 60160

**Workorder: 2101367**

TEL: (708) 531-5360  
FAX: (708) 345-1391  
RE: Disinfectant Byproducts

Dear Mike Carpanzano:

Suburban Laboratories, Inc. received 2 sample(s) on 1/7/2021 for the analyses presented in the following report.

All data for the associated quality control (QC) met EPA, method, or internal laboratory specifications except where noted in the case narrative. If you are comparing these results to external QC specifications or compliance limits and have any questions, please contact us.

This final report of laboratory analysis consists of this cover letter, case narrative, analytical report, dates report, and any accompanying documentation including, but not limited to, chain of custody records, raw data, and letters of explanation or reliance. This report may not be reproduced, except in full, without the prior written approval of Suburban Laboratories, Inc.

If you have any questions regarding these test results, please call me at (708) 544-3260.

Sincerely,

Holly Stephenson  
Project Manager

HollyS@suburbanlabs.com





**Client:** Village of Melrose Park Drinking Water

**Date:** January 15, 2021

**Project:** Disinfectant Byproducts

**PO #:**

**WorkOrder:** 2101367

**QC Level:** LEVEL I

**Temperature of samples upon receipt at SLI:** C

**Chain of Custody #:** PP

**General Comments:**

- All results reported in wet weight unless otherwise indicated. (dry = Dry Weight)
- Sample results relate only to the analytes of interest tested and to sample as received by the laboratory.
- Environmental compliance sample results meet the requirements of 35 IAC Part 186 unless otherwise indicated.
- Waste water analysis follows the rules set forth in 40 CFR part 136 except where otherwise noted.
- Accreditation by the State of Illinois is not an endorsement or a guarantee of the validity of data generated.
- For more information about the laboratories' scope of accreditation, please contact us at (708) 544-3260 or the Agency at (217) 782-6455.
- All radiological results are reported to the 95% confidence level.

**Abbreviations:**

- Reporting Limit: The concentration at which an analyte can be routinely detected on a day to day basis, and which also meets regulatory and client needs.
- Quantitation Limit: The lowest concentration at which results can be accurately quantitated.
- J: The analyte was positively identified above our Method Detection Limit and is considered detectable and usable; however, the associated numerical value is the approximate concentration of the analyte in the sample.
- ATC: Automatic Temperature Correction. - TNTC: Too Numerous To Count
- TIC: Tentatively Identified Compound (GCMS library search identification, concentration estimated to nearest internal standard).
- SS (Surrogate Standard): Quality control compound added to the sample by the lab.

**Method References:**

For a complete list of method references please contact us.

- E: USEPA Reference methods
- SW: USEPA, Test Methods for Evaluating Solid Waste (SW-846)
- M: Standard Methods for the Examination of Water and Wastewater
- USP: Latest version of United States Pharmacopeia

**Workorder Specific Comments:**



# Suburban Laboratories, Inc.

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## Laboratory Results

**Client ID:** Village of Melrose Park Drinking Water

**Report Date:** January 15, 2021

**Project Name:** Disinfectant Byproducts

**Workorder:** 2101367

**Client Sample ID:** S2HT1

**Matrix:** DRINKING WATER

**Lab ID:** 2101367-001

**Date Received:** 01/07/2021 12:00 PM

**Collection Date:** 01/07/2021 08:30 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>TRihalOMETHANES (THM)</b>		Method: EPA-524.2-Rev 4.1, 1995			Analyst: RWM			
Chloroform	9.27		1.00		µg/L	1	01/08/2021 02:12 PM	R128410
Bromodichloromethane	7.48		1.00		µg/L	1	01/08/2021 02:12 PM	R128410
Dibromochloromethane	4.25		1.00		µg/L	1	01/08/2021 02:12 PM	R128410
Bromoform	ND		1.00		µg/L	1	01/08/2021 02:12 PM	R128410
Total Trihalomethanes (TTHMS)	21.0	80.0	1.00		µg/L	1	01/08/2021 02:12 PM	R128410
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	100		70-130		%Rec	1	01/08/2021 02:12 PM	R128410
SS: 4-Bromofluorobenzene	96.2		70-130		%Rec	1	01/08/2021 02:12 PM	R128410
<b>HALOAcETIC ACIDS (HAA5)</b>		Method: EPA-552.3-Rev 1.0, July 2003			Analyst: ES			
Chloroacetic acid	ND		2.00		µg/L	1	01/13/2021 09:22 PM	70801
Dichloroacetic acid	5.04		0.200		µg/L	1	01/13/2021 09:22 PM	70801
Trichloroacetic acid	4.68		0.500		µg/L	1	01/13/2021 09:22 PM	70801
Bromoacetic acid	ND		0.300		µg/L	1	01/13/2021 09:22 PM	70801
Dibromoacetic acid	0.827		0.300		µg/L	1	01/13/2021 09:22 PM	70801
Total Haloacetic Acids (HAA5)	10.6	60.0	0.200		µg/L	1	01/13/2021 09:22 PM	70801
<u>Internal Quality Control Compounds</u>								
SS: 2-Bromobutanoic acid	110		70-130		%Rec	1	01/13/2021 09:22 PM	70801



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## Laboratory Results

**Client ID:** Village of Melrose Park Drinking Water

**Report Date:** January 15, 2021

**Project Name:** Disinfectant Byproducts

**Workorder:** 2101367

**Client Sample ID:** S2HT2

**Matrix:** DRINKING WATER

**Lab ID:** 2101367-002

**Date Received:** 01/07/2021 12:00 PM

**Collection Date:** 01/07/2021 09:00 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>TRihalOMETHANES (THM)</b>		Method: EPA-524.2-Rev 4.1, 1995			Analyst: RWM			
Chloroform	9.68		1.00		µg/L	1	01/08/2021 02:41 PM	R128410
Bromodichloromethane	7.69		1.00		µg/L	1	01/08/2021 02:41 PM	R128410
Dibromochloromethane	4.42		1.00		µg/L	1	01/08/2021 02:41 PM	R128410
Bromoform	ND		1.00		µg/L	1	01/08/2021 02:41 PM	R128410
Total Trihalomethanes (TTHMS)	21.8	80.0	1.00		µg/L	1	01/08/2021 02:41 PM	R128410
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	101		70-130		%Rec	1	01/08/2021 02:41 PM	R128410
SS: 4-Bromofluorobenzene	96.4		70-130		%Rec	1	01/08/2021 02:41 PM	R128410
<b>HALOAcETIC ACIDS (HAA5)</b>		Method: EPA-552.3-Rev 1.0, July 2003			Analyst: ES			
Chloroacetic acid	ND		2.00		µg/L	1	01/13/2021 10:05 PM	70801
Dichloroacetic acid	5.07		0.200		µg/L	1	01/13/2021 10:05 PM	70801
Trichloroacetic acid	4.70		0.500		µg/L	1	01/13/2021 10:05 PM	70801
Bromoacetic acid	0.345		0.300		µg/L	1	01/13/2021 10:05 PM	70801
Dibromoacetic acid	0.844		0.300		µg/L	1	01/13/2021 10:05 PM	70801
Total Haloacetic Acids (HAA5)	11.0	60.0	0.200		µg/L	1	01/13/2021 10:05 PM	70801
<u>Internal Quality Control Compounds</u>								
SS: 2-Bromobutanoic acid	112		70-130		%Rec	1	01/13/2021 10:05 PM	70801



**Suburban Laboratories, Inc.**

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**PREP DATES REPORT**

**Client:** Village of Melrose Park Drinking Water  
**Project:** Disinfectant Byproducts

**Report Date:** January 15, 2021  
**Lab Order:** 2101367

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2101367-001B	1/7/2021 08:30:00	70801	AQPREP: HAAs		1/8/2021
2101367-002B	1/7/2021 09:00:00	70801	AQPREP: HAAs		1/8/2021



**Qualifiers:**

- \*/x Value exceeds Maximum Contaminant Level
- B Analyte detected in the associated Method Blank
- C Value is below Minimum Concentration Limit
- c Analyte not in SLI scope of accreditation
- E Estimated, detected above quantitation range
- G Refer to case narrative page for specific comments
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limit (QL)
- N Tentatively identified compounds
- ND Not Detected at the Reporting Limit
- P Present
- Q Accreditation is not available from Wisconsin
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- T Analyte detected in sample trip blank
- V EPA requires field analysis/filtration. Lab analysis would be considered past hold time.



# Stage 2 DBP Operational Evaluation Level (OEL) Report

Village of Melrose Park Drinking Water  
Disinfectant Byproducts

Workorder: 2101367

## Total Haloacetic Acids (HAA5)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	25.60	18.70	10.60	16.38	No
S2HT2	16.40	19.20	11.00	14.40	No

Note: Operational Evaluation required if any site's calculated OEL exceeds 60 ug/l. All results above are ug/l.

Data Source

<b>S2HT1</b>	2007498 7/2020	201050 10/2020	2101367 1/2021
<b>S2HT2</b>	2007498 7/2020	201050 10/2020	2101367 1/2021

## Total Trihalomethanes (TTHMS)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	47.70	41.30	21.00	32.75	No
S2HT2	27.20	40.10	21.80	27.73	No

Note: Operational Evaluation required if any site's calculated OEL exceeds 80 ug/l. All results above are ug/l.

Data Source

<b>S2HT1</b>	2007498 7/2020	201050 10/2020	2101367 1/2021
<b>S2HT2</b>	2007498 7/2020	201050 10/2020	2101367 1/2021

According to the DBP Stage 2 regulations EPA 815-R-08-018 if the water system exceeds the OEL on any sample site for either Total Haloacetic Acid (HHA5) or Total Trihalomethanes (TTHM) an Operational Evaluation must be done. The evaluation must include an examination of system treatment and distribution operational practices, including storage tank operations, excess storage capacity, distribution system flushing, changes in sources or source water quality, and treatment changes or problems that may contribute to HHA(5) and/or TTHM formation. Guidance for the OEL Evaluation can be found at:

[http://www.epa.gov/ogwdw/disinfection/stage2/pdfs/draft\\_guide\\_stage2\\_operationalevaluation.pdf](http://www.epa.gov/ogwdw/disinfection/stage2/pdfs/draft_guide_stage2_operationalevaluation.pdf)

The Operational Evaluation report (not this Operational Evaluation Level report) must be submitted no later than 90 days after being notified of the analytical result that causes the water system to exceed the OEL.

The water system may request to limit the scope of the evaluation if the system is able to identify the cause of the OEL exceedance. The request to limit the scope of the evaluation does not extend the reporting of the evaluation report, and IEPA must approve the limited scope of the evaluation in writing. The supply must keep the IEPA approval letter limiting the scope of the evaluation with the completed report. The written report must also be made available to the public on request.





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IEPA #100225 IDPH #17585

Chain of Custody for Drinking Water Compliance Testing

Report To:
Mike Carpanzano
Village of Melrose Park Drinking Water
1002 North 27th Avenue
Melrose Park, IL 60160

Phone: (708) 531-5360
Project ID: 0311860 - DBP
Collection Month: January 2021

Collected By: M. Carpanzano

Stage 2 DBP Sample Between: 1/1/2021 and 1/31/2021

IMPORTANT: Verify Sampling dates and sampling sites with IEPA Demand Notice

Workorder Lab Use Only
2101415
Lab Sample Number

Table with 6 columns: Sample Point, # Bott, Analysis, Date Collect, Time Collect, Lab Sample Number. Contains 4 rows of sampling data with handwritten entries.

Relinquished By: M. Carpanzano Date/Time 1-7-21 11:08 AM

Received By: [Signature] Date/Time 1/7/21 1125

Lab Use Only
Received on Ice: Yes / No
Received Temperature: 5.9 C
Received By: [Signature]
Date Received: 1/7/21 Time Received: 1230
Lab Delivery: SLI Client UPS FedEx Mail Other

Please provide any contact or address changes as needed.