

# SUBURBAN LABORATORIES, Inc.



1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134  
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May 30, 2018

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

**Workorder: 1804C87**  
**EPA EDD:100225\_053018DBP1.csv**

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

Dear Mike Carpanzano:

Suburban Laboratories, Inc. received 2 sample(s) on 4/18/2018 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,

Patrick Liberg  
Project Manager  
(708) 544-3260 ext 213  
patl@suburbanlabs.com





**Client:** Village of Melrose Park Drinking Water  
**Project:** Disinfectant By Products  
**WorkOrder:** 1804C87  
**Temperature of samples upon receipt at SLI:** 6 C

**Date:** May 30, 2018  
**PO #:**  
**QC Level:** LEVEL I  
**Chain of Custody #:**

**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:**



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## Laboratory Results

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

**Report Date:** May 30, 2018

**Project Name:** Disinfectant By Products

**Workorder:** 1804C87

**Client Sample ID:** S2HT1

**Matrix:** DRINKING WATER

**Lab ID:** 1804C87-001

**Date Received:** 04/18/2018 11:30 AM

**Collection Date:** 04/18/2018 9:00 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>TRICHALOMETHANES (THM)</b>		Method: EPA-524.2-Rev 4.1, 1995			Analyst: mkl			
Chloroform	11.1		1.00		µg/L	1	04/23/2018 1:20 PM	R95182
Bromodichloromethane	7.80		1.00		µg/L	1	04/23/2018 1:20 PM	R95182
Dibromochloromethane	4.02		1.00		µg/L	1	04/23/2018 1:20 PM	R95182
Bromoform	ND		1.00		µg/L	1	04/23/2018 1:20 PM	R95182
Total Trihalomethanes (TTHMS)	22.9	80.0	1.00		µg/L	1	04/23/2018 1:20 PM	R95182
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	105		70-130		%Rec	1	04/23/2018 1:20 PM	R95182
SS: 4-Bromofluorobenzene	102		70-130		%Rec	1	04/23/2018 1:20 PM	R95182
<b>HALOACETIC ACIDS (HAA5)</b>		Method: EPA-552.3-Rev 1.0, July 2003			Analyst: mn			
Chloroacetic acid	ND		2.00		µg/L	1	04/28/2018 5:06 AM	51918
Dichloroacetic acid	7.31		0.200		µg/L	1	04/28/2018 5:06 AM	51918
Trichloroacetic acid	7.22		0.500		µg/L	1	04/28/2018 5:06 AM	51918
Bromoacetic acid	ND		0.300		µg/L	1	04/28/2018 5:06 AM	51918
Dibromoacetic acid	1.43		0.300		µg/L	1	04/28/2018 5:06 AM	51918
Total Haloacetic Acids (HAA5)	16.0	60.0	0.200		µg/L	1	04/28/2018 5:06 AM	51918
<u>Internal Quality Control Compounds</u>								
SS: 2-Bromobutanoic acid	106		70-130		%Rec	1	04/28/2018 5:06 AM	51918



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## Laboratory Results

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

**Report Date:** May 30, 2018

**Project Name:** Disinfectant By Products

**Workorder:** 1804C87

**Client Sample ID:** S2HT2

**Matrix:** DRINKING WATER

**Lab ID:** 1804C87-002

**Date Received:** 04/18/2018 11:30 AM

**Collection Date:** 04/18/2018 9:30 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
<b>TRICHALOMETHANES (THM)</b>		Method: EPA-524.2-Rev 4.1, 1995			Analyst: mkl			
Chloroform	8.82		1.00		µg/L	1	04/23/2018 1:48 PM	R95182
Bromodichloromethane	6.68		1.00		µg/L	1	04/23/2018 1:48 PM	R95182
Dibromochloromethane	3.72		1.00		µg/L	1	04/23/2018 1:48 PM	R95182
Bromoform	ND		1.00		µg/L	1	04/23/2018 1:48 PM	R95182
Total Trihalomethanes (TTHMS)	19.2	80.0	1.00		µg/L	1	04/23/2018 1:48 PM	R95182
<u>Internal Quality Control Compounds</u>								
SS: 1,2-Dichlorobenzene-d4	99.4		70-130		%Rec	1	04/23/2018 1:48 PM	R95182
SS: 4-Bromofluorobenzene	98.0		70-130		%Rec	1	04/23/2018 1:48 PM	R95182
<b>HALOACETIC ACIDS (HAA5)</b>		Method: EPA-552.3-Rev 1.0, July 2003			Analyst: mn			
Chloroacetic acid	ND		2.00		µg/L	1	04/28/2018 5:32 AM	51918
Dichloroacetic acid	4.85		0.200		µg/L	1	04/28/2018 5:32 AM	51918
Trichloroacetic acid	5.86		0.500		µg/L	1	04/28/2018 5:32 AM	51918
Bromoacetic acid	ND		0.300		µg/L	1	04/28/2018 5:32 AM	51918
Dibromoacetic acid	1.16		0.300		µg/L	1	04/28/2018 5:32 AM	51918
Total Haloacetic Acids (HAA5)	11.9	60.0	0.200		µg/L	1	04/28/2018 5:32 AM	51918
<u>Internal Quality Control Compounds</u>								
SS: 2-Bromobutanoic acid	100		70-130		%Rec	1	04/28/2018 5:32 AM	51918



**Suburban Laboratories, Inc.**

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**PREP DATES REPORT**

**Client:** Village of Melrose Park Drinking Water  
**Project:** Disinfectant By Products

**Report Date:** May 30, 2018  
**Lab Order:** 1804C87

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1804C87-001B	4/18/2018 9:00:00 A	51918	552PR	AQPREP: HAAs		4/27/2018
1804C87-002B	4/18/2018 9:30:00 A	51918	552PR	AQPREP: HAAs		4/27/2018



**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 By Products

Workorder: 1804C87

## Total Haloacetic Acids (HAA5)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	13.70	9.61	16.00	13.83	No
S2HT2	13.80	8.02	11.90	11.41	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>	1710H36 10/2017	180122 1/2018	1804C87 4/2018
<b>S2HT2</b>	1710H36 10/2017	180122 1/2018	1804C87 4/2018

## Total Trihalomethanes (TTHMS)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	42.60	17.50	22.90	26.48	No
S2HT2	42.20	13.70	19.20	23.58	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>	1710H36 10/2017	180122 1/2018	1804C87 4/2018
<b>S2HT2</b>	1710H36 10/2017	180122 1/2018	1804C87 4/2018

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: April 2018

Collected By: Michael Carpanzano

### Stage 2 DBP Sample Between: 4/2/2018 and 4/6/2018

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

Workorder Lab Use Only

Sample Point	# Bott	Analysis	Date Collect	Time Collect	Lab Sample Number
S2HT1 1748 N. 14TH AVE.	2	552	4-18-18	9 AM	1804C87-001B
S2HT1 1748 N. 14TH AVE.	2	524THM	4-18-18	9 AM	001A
S2HT2 3150 HIRSCH AVE.	2	552	4-18-18	9:30 AM	002B
S2HT2 3150 HIRSCH AVE.	2	524THM	4-18-18	9:30 AM	002A

Relinquished By: [Signature] Date/Time 4/18/18 10:45 AM

Received By: [Signature] Date/Time 4/18/18 11:30

Please provide any contact or address changes as needed.

Lab Use Only

Received on Ice:  Yes /  No

Received Temperature: 6 °C

Received By: [Signature]

Date Received: 4/18/18 Time Received: 11:30

Lab Delivery:  SLI  Client  UPS  FedEx  Mail  Other

[Signature] 4/18/18