SUBURBAN LABORATORIES, Inc.

1950 S. Batavia Ave., Suite 150 Geneva, Illinois 60134
Tel. (708) 544-3260 • Toll Free (800) 783-LABS
Fax (708) 544-8587
www.suburbanlabs.com

April 29, 2020

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

Workorder: 2004A93
EPA EDD:100225_042920DBP35.csv

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

Dear Mike Carpanzano:

Suburban Laboratories, Inc. received 2 sample(s) on 4/15/2020 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,

Rebecca Linker

Rebecca Linker
Project Manager
(708) 544-3260
rebeccal@suburbanlabs.com

Case Narrative

Client: Village of Melrose Park Drinking Water
Project: Disinfectant Byproducts
WorkOrder: 2004A93
Temperature of samples upon receipt at SLI: 9 C

Date: April 29, 2020
PO #:
QC Level: LEVEL I
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.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Laboratory Results

Client ID: Village of Melrose Park Drinking Water
Project Name: Disinfectant Byproducts
Report Date: April 29, 2020
Workorder: 2004A93

Client Sample ID: S2HT1
Lab ID: 2004A93-001
Date Received: 04/15/2020 4:20 PM
Matrix: DRINKING WATER
Collection Date: 04/15/2020 9:00 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
TRIHALOMETHANES (THM)			Method: EPA-524.2-Rev 4.1, 1995				Analyst: RWM	
Chloroform	14.0		1.00		µg/L	1	04/20/2020 6:53 PM	R118983
Bromodichloromethane	9.09		1.00		µg/L	1	04/20/2020 6:53 PM	R118983
Dibromochloromethane	4.88		1.00		µg/L	1	04/20/2020 6:53 PM	R118983
Bromoform	ND		1.00		µg/L	1	04/20/2020 6:53 PM	R118983
Total Trihalomethanes (TTHMS)	28.0	80.0	1.00		µg/L	1	04/20/2020 6:53 PM	R118983
Internal Quality Control Compounds								
SS: 1,2-Dichlorobenzene-d4	108		70-130		%Rec	1	04/20/2020 6:53 PM	R118983
SS: 4-Bromofluorobenzene	99.8		70-130		%Rec	1	04/20/2020 6:53 PM	R118983
HALOACETIC ACIDS (HAA5)			Method: EPA-552.3-Rev 1.0, July 2003				Analyst: ES	
Chloroacetic acid	3.13		2.00		µg/L	1	04/28/2020 8:38 AM	65709
Dichloroacetic acid	9.37		0.200		µg/L	1	04/28/2020 8:38 AM	65709
Trichloroacetic acid	6.00		0.500		µg/L	1	04/28/2020 8:38 AM	65709
Bromoacetic acid	0.506		0.300		µg/L	1	04/28/2020 8:38 AM	65709
Dibromoacetic acid	1.23		0.300		µg/L	1	04/28/2020 8:38 AM	65709
Total Haloacetic Acids (HAA5)	20.2	60.0	0.200		µg/L	1	04/28/2020 8:38 AM	65709
Internal Quality Control Compounds								
SS: 2-Bromobutanoic acid	102		70-130		%Rec	1	04/28/2020 8:38 AM	65709

Created: 4/29/2020 5:21:32 PM

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Laboratory Results

Client ID: Village of Melrose Park Drinking Water
Project Name: Disinfectant Byproducts
Report Date: April 29, 2020
Workorder: 2004A93

Client Sample ID: S2HT2
Lab ID: 2004A93-002
Date Received: 04/15/2020 4:20 PM
Matrix: DRINKING WATER
Collection Date: 04/15/2020 8:30 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
TRIHALOMETHANES (THM)			Method: EPA-524.2-Rev 4.1, 1995				Analyst: RWM	
Chloroform	14.0		1.00		µg/L	1	04/20/2020 7:22 PM	R118983
Bromodichloromethane	9.08		1.00		µg/L	1	04/20/2020 7:22 PM	R118983
Dibromochloromethane	4.86		1.00		µg/L	1	04/20/2020 7:22 PM	R118983
Bromoform	ND		1.00		µg/L	1	04/20/2020 7:22 PM	R118983
Total Trihalomethanes (TTHMS)	28.0	80.0	1.00		µg/L	1	04/20/2020 7:22 PM	R118983
Internal Quality Control Compounds								
SS: 1,2-Dichlorobenzene-d4	111		70-130		%Rec	1	04/20/2020 7:22 PM	R118983
SS: 4-Bromofluorobenzene	101		70-130		%Rec	1	04/20/2020 7:22 PM	R118983
HALOACETIC ACIDS (HAA5)			Method: EPA-552.3-Rev 1.0, July 2003				Analyst: ES	
Chloroacetic acid	2.73		2.00		µg/L	1	04/28/2020 7:56 AM	65709
Dichloroacetic acid	9.33		0.200		µg/L	1	04/28/2020 7:56 AM	65709
Trichloroacetic acid	5.99		0.500		µg/L	1	04/28/2020 7:56 AM	65709
Bromoacetic acid	0.466		0.300		µg/L	1	04/28/2020 7:56 AM	65709
Dibromoacetic acid	1.23		0.300		µg/L	1	04/28/2020 7:56 AM	65709
Total Haloacetic Acids (HAA5)	19.8	60.0	0.200		µg/L	1	04/28/2020 7:56 AM	65709
Internal Quality Control Compounds								
SS: 2-Bromobutanoic acid	103		70-130		%Rec	1	04/28/2020 7:56 AM	65709

Created: 4/29/2020 5:21:33 PM

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PREP DATES REPORT

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

Report Date: April 29, 2020
Lab Order: **2004A93**

Sample ID	Collection Date	Batch ID	Prep Test Name	TCLP Date	Prep Date
2004A93-001B	4/15/2020 9:00:00 AM	65709	AQPREP: HAAs		4/21/2020
2004A93-002B	4/15/2020 8:30:00 AM	65709	AQPREP: HAAs		4/21/2020

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Qualifier Definitions

WO#: **2004A93**
Date: **4/29/2020**

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.

Suburban Laboratories, Inc.
1950 S. Batavia Ave., Suite 150, Geneva, IL 60134 (708) 544-3260

Report Date: April 29, 2020

Stage 2 DBP Operational Evaluation Level (OEL) Report

Village of Melrose Park Drinking Water
Disinfectant Byproducts

Workorder: 2004A93

Total Haloacetic Acids (HAA5)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	24.00	19.30	20.20	20.93	No
S2HT2	21.00	15.30	19.80	18.98	No

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

Data Source

S2HT1	1910844 10/2019	2001A4 1/2020	2004A93 4/2020
S2HT2	1910844 10/2019	2001A4 1/2020	2004A93 4/2020

Total Trihalomethanes (TTHMS)

Sample Site	3rd Most Recent	2nd Most Recent	Most Recent Result	Calculated OEL	OEL Exceeded
S2HT1	34.80	22.60	28.00	28.35	No
S2HT2	26.50	17.00	28.00	24.88	No

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

Data Source

S2HT1	1910844 10/2019	2001A4 1/2020	2004A93 4/2020
S2HT2	1910844 10/2019	2001A4 1/2020	2004A93 4/2020

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

The Operational Evaluation report (not this Operational Evaluation Level report) must be sumbitted no later than 90 days after being notifed 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 reoprt. The written report must also be made avaialble to the public on request.

Illinois Department of Public Health Accredited #17585
Illinois Environmental Protection Agency Accredited #100225

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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 2020

Collected By: M. Carpanzano

Stage 2 DBP Sample Between: 4/1/2020 and 4/30/2020

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

Sample Point	# Bott	Analysis	Date Collect	Time Collect	Workorder Lab Use Only Lab Sample Number
S2HT1 1748 N. 14TH AVE.	2	524THM	4-15-20	9AM	2004A93 001A
S2HT1 1748 N. 14TH AVE.	2	552	4-15-20	9AM	001B
S2HT2 3150 HIRSCH AVE.	2	552	4/15/20	8:30 AM	002B
S2HT2 3150 HIRSCH AVE.	2	524THM	4-15-20	8:30 AM	002A

Relinquished By: M. Carpanzano Date/Time 4-15-2020 10:40 am.

Received By: RL Date/Time 4/15/20

Please provide any contact or address changes as needed.

Lab Use Only
Received on Ice: Yes / No
Received Temperatue: 9 C
Received By: RL
Date Received: 4/15/20 Time Received: 1620
Lab Delivery: SLI Client UPS FedEx Mail Other

COC Page ___ of ___