

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

June 26, 2017

Terry McGhee
Du Page Water Commission
600 E. Butterfield Road
Elmhurst, IL 60126-4642

Workorder: 1706582

TEL: (630) 340-0100

FAX: (630) 340-0120

RE: 600 E Butterfield Non-Compliance Drinking Water Analysis

Dear Terry McGhee:

Suburban Laboratories, Inc. received 1 sample(s) on 6/7/2017 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,



Pat Rodriguez
Project Manager
708-544-3260 ext 214
pat@suburbanlabs.com





Client: Du Page Water Commission

Date: June 26, 2017

Project: 600 E Butterfield Non-Compliance Drinking Wa

PO #:

WorkOrder: 1706582

QC Level: LEVEL I

Temperature of samples upon receipt at SLI: 13 C

Chain of Custody #: 140015

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:

1706582-001A was preserved in the lab.



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Du Page Water Commission

Report Date: June 26, 2017

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Workorder: 1706582

Client Sample ID: LAB

Matrix: DRINKING WATER

Lab ID: 1706582-001

Date Received: 06/07/2017 11:25 AM

Collection Date: 06/07/2017 10:15 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
METALS BY ICP		Method: EPA-200.7-Rev 4.4,1994			Analyst: jmk			
Calcium	33,200		100		µg/L	1	06/13/2017 5:11 PM	45717
Hardness, Ca/Mg (As CaCO3)	132,000		125		µg/L	1	06/13/2017 5:11 PM	45717
Iron	ND	1,000	50.0		µg/L	1	06/13/2017 5:11 PM	45717
Magnesium	11,800		50.0	c	µg/L	1	06/13/2017 5:11 PM	45717
Sodium	8,770		300		µg/L	1	06/13/2017 5:11 PM	45717
METALS BY ICPMS		Method: EPA-200.8-Rev 5.4, 1994			Analyst: mjs			
Antimony	ND	6.00	2.00		µg/L	1	06/08/2017 2:46 PM	45717
Arsenic	0.645	10.0	0.500		µg/L	1	06/08/2017 2:46 PM	45717
Barium	21.2	2,000	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Beryllium	ND	4.00	1.00		µg/L	1	06/08/2017 2:46 PM	45717
Cadmium	ND	5.00	3.00		µg/L	1	06/08/2017 2:46 PM	45717
Chromium	ND	100	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Copper	ND	1,300	100		µg/L	1	06/08/2017 2:46 PM	45717
Lead	ND	15.0	2.00		µg/L	1	06/08/2017 2:46 PM	45717
Mercury	ND	2.00	0.100		µg/L	1	06/08/2017 2:46 PM	45717
Selenium	ND	50.0	5.00		µg/L	1	06/08/2017 2:46 PM	45717
Thallium	ND	2.00	2.00		µg/L	1	06/08/2017 2:46 PM	45717
VOLATILE ORGANIC COMPOUNDS (REGULATED)		Method: EPA-524.2-Rev R4.1			Analyst: KH			
Benzene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Carbon tetrachloride	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Chlorobenzene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,4-Dichlorobenzene	ND	75.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichlorobenzene	ND	600	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichloroethane	0.590	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,1-Dichloroethene	ND	7.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
cis-1,2-Dichloroethene	ND	70.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
trans-1,2-Dichloroethene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2-Dichloropropane	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Ethylbenzene	ND	700	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Methylene chloride	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Styrene	ND	100	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Tetrachloroethene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
Toluene	ND	1,000	0.500		µg/L	1	06/13/2017 5:44 PM	R85101
1,2,4-Trichlorobenzene	ND	70.0	0.500		µg/L	1	06/13/2017 5:44 PM	R85101



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Du Page Water Commission

Report Date: June 26, 2017

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Workorder: 1706582

Client Sample ID: LAB

Matrix: DRINKING WATER

Lab ID: 1706582-001

Date Received: 06/07/2017 11:25 AM

Collection Date: 06/07/2017 10:15 AM

Parameter	Result	MCL	Report Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID	
VOLATILE ORGANIC COMPOUNDS (REGULATED)		Method: EPA-524.2-Rev R4.1			Analyst: KH				
Trichloroethene	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
1,1,1-Trichloroethane	ND	200	0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
1,1,2-Trichloroethane	ND	5.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
Vinyl chloride	ND	2.00	0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
m,p-Xylene	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
o-Xylene	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
Total Xylenes	ND	10,000	0.500		µg/L	1	06/13/2017 5:44 PM	R85101	
<u>Internal Quality Control Compounds</u>									
SS: 1,2-Dichlorobenzene-d4	100		70-130		%Rec	1	06/13/2017 5:44 PM	R85101	
SS: 4-Bromofluorobenzene	93.4		70-130		%Rec	1	06/13/2017 5:44 PM	R85101	
VOLATILE ORGANIC COMPOUNDS (UNREGULATED)		Method: EPA-524.2-Rev 4.1, 1995			Analyst: KH				
Methyl tert-butyl ether	ND		0.500		µg/L	1	06/13/2017 5:44 PM	R85103	
<u>Internal Quality Control Compounds</u>									
SS: 1,2-Dichlorobenzene-d4	100		70-130		%Rec	1	06/13/2017 5:44 PM	R85103	
SS: 4-Bromofluorobenzene	93.4		70-130		%Rec	1	06/13/2017 5:44 PM	R85103	
PESTICIDE COMPOUNDS		Method: EPA-525.2-Rev 2.0, 1995			Analyst: ls				
Alachlor	ND	2.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803	
Atrazine	ND	3.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803	
Simazine	ND	4.00	0.200		µg/L	1	06/13/2017 4:05 PM	45803	
<u>Internal Quality Control Compounds</u>									
SS: 1,3-Dimethyl-2-nitrobenzene	93.3		60.3-130		%Rec	1	06/13/2017 4:05 PM	45803	
SS: Perylene-d12	79.7		26-125		%Rec	1	06/13/2017 4:05 PM	45803	
SS: Triphenyl phosphate	98.9		50.9-181		%Rec	1	06/13/2017 4:05 PM	45803	
ALKALINITY, TOTAL		Method: SM-2320B-Rev 18Ed, 1992, 21Ed, 1997			Analyst: mmh				
Alkalinity, Total(As CaCO3)	96.4		20.0		mg/L CaCO3	1	06/15/2017 4:02 PM	R85151	
TOTAL NITRATES (NITRATE+NITRITE)		Method:			Analyst: pgr				
Total Nitrates (as N)	ND	10.0	0		mg/L	1	06/08/2017 4:50 PM	R85475	
PH METHOD 9041A (IN LABORATORY)		Method: EPA-9041A-Rev 1, Jul-92			Analyst: pgr				
pH	6			V c	pH Units	1	06/08/2017 4:50 PM	R85475	
COLIFORM, PRESENCE-ABSENCE-COLILERT		Method: SM-9223B-PA-Rev 1997 Rev. Online			Analyst: MMM				



Suburban Laboratories, Inc.

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

Laboratory Results

Client ID: Du Page Water Commission

Report Date: June 26, 2017

Project Name: 600 E Butterfield Non-Compliance Drinking Wat

Workorder: 1706582

Client Sample ID: LAB

Matrix: DRINKING WATER

Lab ID: 1706582-001

Date Received: 06/07/2017 11:25 AM

Collection Date: 06/07/2017 10:15 AM

Parameter	Result	Report MCL Limit	Qual.	Units	Dilution Factor	Date Analyzed	Batch ID
COLIFORM, PRESENCE-ABSENCE-COLILERT		Method: SM-9223B-PA-Rev 1997 Rev. Online		Analyst: MMM			
E. Coli	0	0		CFU/100ml	1	06/07/2017 5:13 PM	45702
Total Coliform	0	0		CFU/100ml	1	06/07/2017 5:13 PM	45702
TURBIDITY		Method: EPA-180.1-Rev 2.0, Aug-93		Analyst: jmk			
Turbidity	0.560	0.100		NTU	1	06/07/2017 4:43 PM	R84842



Suburban Laboratories, Inc.

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

PREP DATES REPORT

Client: DuPage Water Commission
Project: 600 E Butterfield Non-Compliance

Report Date: June 26, 2017
Lab Order: 1706582

Sample ID	Collection Date	Batch ID	Prep Method	Prep Test Name	TCLP Date	Prep Date
1706582-001A	6/7/2017 10:15:00 A	45717	TURB_METALS	Turbidity Check		6/8/2017
1706582-001D		45702	T_COLI_PR	Total Coliform Prep		6/7/2017
1706582-001F		45803	525_DW_PR	525 Prep Code		6/13/2017



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., Ste 150, Geneva, IL 60134

Tel. 708.544.3260

Fax: 708.544.8587

Toll Free: 800.783.LABS

www.suburbanlabs.com

CHAIN OF CUSTODY RECORD

140015

Company Name **DUPAGE WATER COMMISSION**
 Company Address **600 E. BUTTERFIELD RD**
 City **ELMHURST** State **IL** Zip **60126**
 Phone **630-834-0100** Fax **630-834-0120** Fax Report
 Email Address **UNGER@DPWC.ORG** Final Report will be emailed
 Project ID / Location **ELMHURST**
 Project Manager (Report to) **TERRY MCGHEE**
 Sample Collector(s) Name **JASON UNGER**

TURNAROUND TIME REQUESTED
 Normal RUSH* *Additional Rush Charges Approved.
 *Date & Time Needed: _____
 Normal TAT is specified on the price quotation or fee schedule. Rush work must be pre-approved and additional charges apply.
 Specify Regulatory Program: None/Info Only (Required)
 LUST SRP SDWA
 503 Sludge NPDES MWRDGC
 Disposal Other* *Please specify in comment section below.

ANALYSIS & METHOD REQUESTED
 Enter an "X" in box below for request

--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

Page **1** of **1**
 PO No. _____
 Shipping Method _____
 Reporting Level (at additional charge) **1 2 3 4**
LAB USE ONLY
 SLI ORDER No. **1706582**
 Sample containers supplied by customer? Yes
 Temperature of Received Samples **13** °C
 Samples received the same day as collection? Yes

	SAMPLE IDENTIFICATION		COLLECTION		MATRIX	GRAB/COMP.	CONTAINERS		PRESERVATIVE
	Use One Line Per Preservation & Container Type		DATE	TIME			Qty	SIZE & TYPE	
1	1	LAB	6/7/17	10:15			1		
2	2		6/7/17	10:15			1		
3	3		6/7/17	10:15			1		
4	4		6/7/17	10:15			1		
5	5		6/7/17	10:20			1		
6	6		6/7/17	10:20			1		
7	7		6/7/17	10:30			1		
8	8		6/7/17	10:30			1		
9									
10									
11									
12									

SAFE WATER #1

MATRIX: Drinking Water (DW), Soil (S), Waste Water (WW), Surface Water (SW), Ground Water (GW), Solid Waste (WA), Sludge (U), Wipe (P) **CONTAINER:** 2oz, 4oz, 8oz, 40ml Vial, 500ml, Liter (L), Tube, Glass (G), Plastic (P) **PRESERVATIVE:** H₂SO₄, HCl, HNO₃, Methanol (MeOH), NaOH, Sodium Bisulfate (NaB), NaThio

COMMENTS & SPECIAL INSTRUCTIONS:

- CONDITION CODES**
1. Improper/damaged container/cap
 2. Improper preservation
 3. Insufficient sample volume
 4. Headspace/air bubbles for VOCs
 5. Received past holding time
 6. Received frozen
 7. Label conflicts with COC

1. Relinquished By *[Signature]* Date **6-7-17**
 Received By *[Signature]* Time **11:25** Ice present

2. Relinquished By _____ Date _____
 Received By _____ Ice present

3. Relinquished By _____ Date _____
 Received By _____ Ice present

4. Relinquished By _____ Date _____
 Received By _____ Ice present