

Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by PWS (or Agent)

Completed by Laboratory

PWS Name: CITY OF HOUSTON-MAIN

Laboratory Name:

A & B Labs

PWS ID#: TX 1010013

TCEQ Lab ID #:

T104704213

PWS Address: 611 WALKER STREET FLR 18, HOUSTON, TX, 77002-4903

Laboratory Address:

PWS Contact: JONI SYNATSCHK

10102 E Freeway, Ste. 400
Houston TX 77029

PWS Contact Phone #: 832-395-3113

Laboratory Contact:

A Hughes

Inhibitor or Stabilizer Used (Y):
TREATMENT Alkalinity Doseage Rate: Inhibitor Doseage Rate:

Laboratory Contact Phone #:

713 453 10000

Sample Information

Sample Type (Y):	Compliance	Non-compliance	3rd Party Contractor --> LAB ID
Sample Collector (Y):	Public Water System	Accredited Lab	
Temperature and pH (Y or N):	X	Are temperature and pH included on the sampling entry's Laboratory Approval Form on file at the TCEQ?	X

Parameters Requested: Analyses are required for the parameters checked. * If inhibitors containing phosphate or silica are used, then these parameters should also be analyzed depending on which is in use.

Facility ID (e.g. DS01, PCU001)	Sample Point ID (e.g. DSTWQP, EMQP)	Sample Location	Sample Collection		Field Measurements		Replacement?	Original Sample ID #	Original Sample Date (MMDDYY)	Lab Sample ID	Sample Conditions Upon Receipt (Y)									
			Date (MMDDYY)	Time - 24 hr (HHMM)	pH	Temp (°C)					Alkalinity (1927)	Calcium (1919)	Chloride (1017)	Conductivity (1064)	Hardness (1915)	Iron (1028)	Manganese (1032)	Sodium (1052)	Sulfate (1055)	TDS (1930)
DS01	DSTWQP	11226 HUGGINS DR.	5-22-23	9:30 AM	8.5	3	8.14			23040711.07										
DS01	DSTWQP	15326 WICKBRIAR LANE	5-22-23	9:02 AM	8.6	1	8.19													
DS01	DSTWQP	6607 FOXFERN STREET	5-22-23	7:21 AM	8.7		8.31													
DS01	DSTWQP	2802 OLD SPANISH TRL	5-22-23	11:46 AM	8.6	2	8.15													
DS01	DSTWQP	4459 N MACGREGOR WAY	5-22-23	6:30 AM	8.4	2	7.64													
DS01	DSTWQP	7011 CULMORE DR.	5-22-23	7:49 AM	8.5	3	8.17													

I acknowledge that information on this form is true and correct and sizes selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law, Texas Penal Code, Title 8, Chapter 37.10.

Name of Authorized PWS Representative (Print)	Signature	Organization	Date	Rejection Code (if applicable):	Actual / Corrected sample temperature:	Thermometer ID #:
Karen Lancaster	Karlson	COH	5-22-23		25	125

Chain of Custody	Date/Time:	Relinquished By Counter (Signature)	Date/Time:
Relinquished By (Signature)	5/22/23	Received By Lab (Signature)	5/23/23
Received By Counter (Signature)			



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY PARAMETER MONITORING FORM 20679

Completed by Laboratory

Completed by PWS (or Agent)

PWS Name: CITY OF HOUSTON-MAIN

Laboratory Name:

PWS ID#: TX 1010013

TCEQ Lab ID #:

PWS Address: 611 WALKER STREET FLR 18, HOUSTON, TX, 77002-4903

Laboratory Address:

PWS Contact: JONI SYNATSKCHK

PWS Contact Phone #: 832-395-3113

Laboratory Contact:

Inhibitor or Stabilizer Used (Y/N):

Phosphate

Silica

Calcium carbonate

TREATMENT

Alkalinity Dosage Rate:

Inhibitor Dosage Rate:

Laboratory Contact Phone #:

Sample Information

Sample Type (Y/N): ☒ Compliance

Non-compliance

Sample Collector (Y): ☒ Public Water System

Accredited Lab

Temperature and pH (Y or N): ☒ Are temperature and pH included on the sampling entity's Laboratory Approval Form on file at the TCEQ?

3rd Party Contractor -> LAB ID

Were temperature and pH measured in the field within 15 minutes of sample collection?

Sample Collection

Field Measurements

Date (MM/DD/YY)

Time - 24 hr (HH:MM)

pH

Temp (°C)

Replacement?

Original Sample ID #

Original Sample Date (MM/DD/YY)

Facility ID (e.g., DSTWOP, PBCU001)

Sample Location

DSTWOP HOLLOCK & DEXTER RD

Date (MM/DD/YY)

Time (HH:MM)

pH

Temp (°C)

Replacement?

Original Sample ID #

Original Sample Date (MM/DD/YY)

Lab Sample ID

Alkalinity (1927)

Calcium (1919)

Chloride (1017)

Conductivity (1064)

Hardness (1915)

Iron (1028)

Manganese (1032)

Sodium (1062)

Sulfate (1065)

TDS (1930)

I acknowledge that information on this form is true and correct and sites selected for sampling follow the instructions in the TCEQ Monitoring and Sample Collection Guidance for Water Quality Parameters. This includes, but not limited to the measurement of pH and temperature immediately upon collection. Falsification of this form or tampering with water samples is a crime punishable under state and/or federal law. (Texas Penal Code, Title 8, Chapter 37.10)

Name of Authorized PWS Representative (Print)

Signature

Organization

Date

Kevin Lancaster

CVT Forest

COH

5-22-23

Chain of Custody

Relinquished by (Signature)

Date/Time

Relinquished by Counter (Signature)

Date/Time

Amund Mbabara

6/20/23 14:32

Received by Lab (Signature)

Date/Time

Laboratory Comments:

Reflection Code (if applicable):

Actual / Corrected sample temperature:

Thermometer ID #:

2.5

1RS

23

1432

TCEQ 20679 (Rev 01/2013)

Laboratory Analysis Report

Total Number of Pages: 11

Job ID : 23061971



10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, <http://www.ablabs.com>

Client Project Name :
PWS ID#: 1010031 / City of Houston-Main

Report To :	Client Name: City of Houston-DWR Compliance Laboratory	P.O.#:
	Attn: Joni Synatschk	Sample Collected By:
	Client Address: 1770 Sidney Street	Date Collected: 05/22/23
	City, State, Zip: Houston, Texas, 77023	

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
DSTWQP / Frostwood & Cobblestone	Water	23061971.01
DSTWQP / 323 Blanche Street	Water	23061971.02
DSTWQP / 5100 Dickson Street	Water	23061971.03
DSTWQP / Hollyoak & Chicory	Water	23061971.04
DSTWQP / 12531 Lancelot Dr.	Water	23061971.05
DSTWQP / 12803 Northumb Rd.	Water	23061971.06
DSTWQP / 11226 Huggins Dr.	Water	23061971.07
DSTWQP / 15326 Wickbriar Lane	Water	23061971.08
DSTWQP / 6607 Foxfern Street	Water	23061971.09
DSTWQP / 2802 Old Spanish TRL	Water	23061971.10
DSTWQP / 4459 N Macgregor Way	Water	23061971.11
DSTWQP / 7011 Culmore Dr.	Water	23061971.12
DSTWQP / Hollock & Dexter Rd	Water	23061971.13

Alisha Hughes

Released By: Alisha Hughes
Title: Senior Project Manager
Date: 6/29/2023



This Laboratory is NELAP (T104704213-23-31) accredited. Effective: 04/13/2023; Expires: 3/31/2024
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Results apply to the sample as received. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

ab-q210-0321

REVISED

Date Received : 06/20/2023 14:32

LABORATORY TERM AND QUALIFIER DEFINITION REPORT



Job ID : 23061971

Date: 6/29/2023

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL	MQL	Minimum Quantitation Limit

Qualifier Definition

M6	Sample concentration high, more than 4X spike concentration. Control limits do not apply.
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Job ID : 23061971

Date : 6/29/2023

CLIENT Name : City of Houston-DWR Compliance Laboratory

ATTN : Joni Synatschk

PROJECT Name : PWS ID#: 1010031 / City of Houston-Main

Parameter Method	ClientSampleID	Result	Units	Matrix	D.F	Rpt Limit	Reg Limit	Collection DateTime	Analysis DateTime	Analyst	SampleID	Q
EPA 200.7	DSTWQP / Frostwood & Cobblestone											
	Iron	0.051	mg/L	Water	1	0.01	0.3	05/22/23 10:53	06/21/23 20:01	BDC	23061971.01	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 10:53	06/21/23 20:01	BDC	23061971.01	
	Sodium	28.0	mg/L	Water	100	10		05/22/23 10:53	06/21/23 20:05	BDC	23061971.01	
EPA 200.7	DSTWQP / 323 Blanche Street											
	Iron	0.124	mg/L	Water	1	0.01	0.3	05/22/23 06:55	06/21/23 20:18	BDC	23061971.02	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 06:55	06/21/23 20:18	BDC	23061971.02	
	Sodium	22.7	mg/L	Water	100	10		05/22/23 06:55	06/21/23 20:22	BDC	23061971.02	
EPA 200.7	DSTWQP / 5100 Dickson Street											
	Iron	BRL	mg/L	Water	1	0.01	0.3	05/22/23 11:20	06/21/23 20:26	BDC	23061971.03	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 11:20	06/21/23 20:26	BDC	23061971.03	
	Sodium	25.2	mg/L	Water	100	10		05/22/23 11:20	06/21/23 20:30	BDC	23061971.03	
EPA 200.7	DSTWQP / Hollyoak & Chicory											
	Iron	0.092	mg/L	Water	1	0.01	0.3	05/22/23 10:28	06/21/23 20:34	BDC	23061971.04	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 10:28	06/21/23 20:34	BDC	23061971.04	
	Sodium	53.2	mg/L	Water	100	10		05/22/23 10:28	06/21/23 20:38	BDC	23061971.04	
EPA 200.7	DSTWQP / 12531 Lancelot Dr.											
	Iron	0.159	mg/L	Water	1	0.01	0.3	05/22/23 09:58	06/21/23 20:42	BDC	23061971.05	
	Manganese	0.010	mg/L	Water	1	0.01	0.05	05/22/23 09:58	06/21/23 20:42	BDC	23061971.05	
	Sodium	26.7	mg/L	Water	100	10		05/22/23 09:58	06/21/23 20:46	BDC	23061971.05	
EPA 200.7	DSTWQP / 12803 Northumb Rd.											
	Iron	BRL	mg/L	Water	1	0.01	0.3	05/22/23 13:05	06/21/23 20:51	BDC	23061971.06	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 13:05	06/21/23 20:51	BDC	23061971.06	
	Sodium	23.1	mg/L	Water	100	10		05/22/23 13:05	06/21/23 20:55	BDC	23061971.06	
EPA 200.7	DSTWQP / 11226 Huggins Dr.											
	Iron	0.078	mg/L	Water	1	0.01	0.3	05/22/23 09:32	06/21/23 21:07	BDC	23061971.07	

ab-q212-0321



Job ID : 23061971

Date : 6/29/2023

CLIENT Name : City of Houston-DWR Compliance Laboratory

ATTN : Joni Synatschk

PROJECT Name : PWS ID#: 1010031 / City of Houston-Main

Parameter Method	ClientSampleID	Result	Units	Matrix	D.F	Rpt Limit	Reg Limit	Collection DateTime	Analysis DateTime	Analyst	SampleID	Q
EPA 200.7	DSTWQP / 11226 Huggins Dr.											
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 09:32	06/21/23 21:07	BDC	23061971.07	
	Sodium	44.9	mg/L	Water	100	10		05/22/23 09:32	06/21/23 21:11	BDC	23061971.07	
EPA 200.7	DSTWQP / 15326 Wickbriar Lane											
	Iron	0.217	mg/L	Water	1	0.01	0.3	05/22/23 09:02	06/21/23 21:15	BDC	23061971.08	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 09:02	06/21/23 21:15	BDC	23061971.08	
	Sodium	21.3	mg/L	Water	100	10		05/22/23 09:02	06/21/23 21:20	BDC	23061971.08	
EPA 200.7	DSTWQP / 6607 Foxfern Street											
	Iron	0.015	mg/L	Water	1	0.01	0.3	05/22/23 07:21	06/21/23 21:24	BDC	23061971.09	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 07:21	06/21/23 21:24	BDC	23061971.09	
	Sodium	26.0	mg/L	Water	100	10		05/22/23 07:21	06/21/23 21:28	BDC	23061971.09	
EPA 200.7	DSTWQP / 2802 Old Spanish TRL											
	Iron	0.034	mg/L	Water	1	0.01	0.3	05/22/23 11:46	06/21/23 21:32	BDC	23061971.10	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 11:46	06/21/23 21:32	BDC	23061971.10	
	Sodium	19.3	mg/L	Water	100	10		05/22/23 11:46	06/21/23 21:36	BDC	23061971.10	
EPA 200.7	DSTWQP / 4459 N Macgregor Way											
	Iron	0.043	mg/L	Water	1	0.01	0.3	05/22/23 06:36	06/21/23 21:40	BDC	23061971.11	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 06:36	06/21/23 21:40	BDC	23061971.11	
	Sodium	19.5	mg/L	Water	100	10		05/22/23 06:36	06/21/23 21:44	BDC	23061971.11	
EPA 200.7	DSTWQP / 7011 Culmore Dr.											
	Iron	0.063	mg/L	Water	1	0.01	0.3	05/22/23 07:49	06/21/23 21:57	BDC	23061971.12	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 07:49	06/21/23 21:57	BDC	23061971.12	
	Sodium	19.3	mg/L	Water	100	10		05/22/23 07:49	06/21/23 22:01	BDC	23061971.12	
EPA 200.7	DSTWQP / Hollock & Dexter Rd											
	Iron	0.088	mg/L	Water	1	0.01	0.3	05/22/23 08:11	06/21/23 22:05	BDC	23061971.13	
	Manganese	BRL	mg/L	Water	1	0.01	0.05	05/22/23 08:11	06/21/23 22:05	BDC	23061971.13	

ab-q212-0321



Job ID : 23061971

Date : 6/29/2023

CLIENT Name : City of Houston-DWR Compliance Laboratory

ATTN : Joni Synatschk

PROJECT Name : PWS ID#: 1010031 / City of Houston-Main

Parameter Method	ClientSampleID	Result	Units	Matrix	D.F	Rpt Limit	Reg Limit	Collection DateTime	Analysis DateTime	Analyst	SampleID	Q
	DSTWQP / Hollock & Dexter Rd											
	Sodium	17.6	mg/L	Water	100	10		05/22/23 08:11	06/21/23 22:09	BDC	23061971.13	



LABORATORY QUALITY CONTROL CERTIFICATE

A&B Job ID : 23061971

Date : 6/29/2023

QCType: LCS and LCSD

Parameter	Method		Spike Added	LCS Result	LCSD Result	LCS Rec %	LCSD Rec %	RPD	% RPD CLimits	% Rec CLimits	QCBatchID		Qual
Iron	EPA 200.7		1	1.015	0.997	102	99.7	1.8	20	85-115	Qb230621134		
Iron	EPA 200.7		1	1.015	0.997	102	99.7	1.8	20	85-115	Qb230621135		
Manganese	EPA 200.7		1	0.960	0.944	96	94.4	1.7	20	85-115	Qb230621134		
Manganese	EPA 200.7		1	0.960	0.944	96	94.4	1.7	20	85-115	Qb230621135		
Sodium	EPA 200.7		1	1.074	1.047	107	105	2.5	20	85-115	Qb230621134		
Sodium	EPA 200.7		1	1.074	1.047	107	105	2.5	20	85-115	Qb230621135		

QCType: MS and MSD

Parameter	Method	Sample Result	Spike Added	MS Result	MSD Result	MS Rec %	MSD Rec %	RPD	% RPD CLimits	% Rec CLimits	QCBatchID	QCSampleID	Qual
Iron	EPA 200.7	0.034	1	1.073		104				75-125	Qb230621134	23061971.10	
Iron	EPA 200.7	0.043	1	1.043		100				75-125	Qb230621135	23061971.11	
Manganese	EPA 200.7	0.007	1	0.972		97.2				75-125	Qb230621134	23061971.10	
Manganese	EPA 200.7	BRL	1	0.942		94.2				75-125	Qb230621135	23061971.11	
Sodium	EPA 200.7	19.3	1	32.5		1323				75-125	Qb230621134	23061971.10	M6
Sodium	EPA 200.7	19.5	1	25.0		555				75-125	Qb230621135	23061971.11	M6

QCType: Method Blank

Parameter	Method	CAS #	Result	Units	D.F.	Rpt Limit		QCBatchID		Qual
Iron	EPA 200.7	7439-89-6T	BRL	mg/L	1	0.01		Qb230621134		
Iron	EPA 200.7	7439-89-6T	BRL	mg/L	1	0.01		Qb230621135		
Manganese	EPA 200.7	7439-96-5	BRL	mg/L	1	0.01		Qb230621134		
Manganese	EPA 200.7	7439-96-5	BRL	mg/L	1	0.01		Qb230621135		
Sodium	EPA 200.7	7440-23-5T	BRL	mg/L	1	0.1		Qb230621134		

ab-q213-0321

Refer to the Definition page for terms.



LABORATORY QUALITY CONTROL CERTIFICATE

A&B Job ID : 23061971

Date : 6/29/2023

QCType: Method Blank

Parameter	Method	CAS #	Result	Units	D.F.	Rpt Limit	QCBatchID	Qual
Sodium	EPA 200.7	7440-23-5T	BRL	mg/L	1	0.1	Qb230621135	



Sample Condition Checklist

A&B JobID : 23061971	Date Received : 06/20/2023	Time Received : 2:32PM
Client Name : City of Houston-DWR Compliance Laboratory		
Temperature : 2.5°C	Sample pH : <2 Metal	
Thermometer ID : IR5	pH Paper ID : 101570	
Perservative :		

	Check Points	Yes	No	N/A
1.	Cooler Seal present and signed.		X	
2.	Sample(s) in a cooler.	X		
3.	If yes, ice in cooler.	X		
4.	Sample(s) received with chain-of-custody.	X		
5.	C-O-C signed and dated.	X		
6.	Sample(s) received with signed sample custody seal.		X	
7.	Sample containers arrived intact. (If No comment)	X		
8.	Matrix: Water ☒ Soil ☐ Liquid ☐ Sludge ☐ Solid ☐ Cassette ☐ Tube ☐ Bulk ☐ Badge ☐ Food ☐ Other ☐			
9.	Samples were received in appropriate container(s)	X		
10.	Sample(s) were received with Proper preservative	X		
11.	All samples were tagged or labeled.	X		
12.	Sample ID labels match C-O-C ID's.	X		
13.	Bottle count on C-O-C matches bottles found.	X		
14.	Sample volume is sufficient for analyses requested.	X		
15.	Samples were received with in the hold time.	X		
16.	VOA vials completely filled.			X
17.	Sample accepted.	X		
18.	Has client been contacted about sub-out			X

Comments : Include actions taken to resolve discrepancies/problem:

Received by : Jedralin

Check in by/date : Jedralin / 06/20/2023

ab-s005-0321