Document Control Sheet

Sheet Title:	PWS - OLS
Box ID:	17671
Control Sheet ID:	0000-0000-0049-4492
Record Series Name:	WS / Public Water Supply
Record Series:	PWS
Primary ID:	1050003
Secondary ID:	
Doc Type:	Analysis Chemical
Security:	Public
Date:	10/25/2016 12:00AM
Title:	WQP Analysis Report
Tertiary ID	

PWS 1050003 AC [redacted] 20161025 WQP [redacted] ANALYSIS Report

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information

PWSID#: TX **1050003**	PWS NAME: **Texas State University**	PHONE #:**(512)245-8629**
PWS TYPE: ☒ COMM ☐ NTNC	POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000	
PWS CONTACT NAME: **Carl Teague Jr.**	TITLE **Utilities Manager**	DATE **10/25/2016**
PWS AUTHORIZED SIGNATURE: Carl Teague Jr		

SECTION II. WQP TYPE

☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL	TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO	
☐ DS SYSTEM ☒ ENTRY POINTS	# OF DS SAMPLES REQUIRED:	# OF DS SAMPLES SUBMITTED:
	# OF EP SAMPLES REQUIRED: **2**	# OF EP SAMPLES SUBMITTED:

☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR **Phosphate**

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	Sample Address: 01 EP001 A	Sample Address: 02 EP001 B	Sample Address:	Sample Address:	ANALYSIS METHOD
1925 pH	7.5	7.5			
1996 Temperature (°C)	23	23			
1927 Alkalinity (mg/L)	285 mg/L	286 mg/L			SM2320B
1064 Conductivity (µmho/cm)	637 umhos/cm	637 umhos/cm			SM2510B
1919 Calcium (mg/L)	96.6 mg/L	96.8 mg/L			E200.7
☒ 1044 Orthophosphate*	0.238 mg/L	0.246 mg/L			E300.0
☒ 1049 Silica*	11.7 mg/L	11.7 mg/L			SM4500-SiO2-C
☒ 1919 Calcium Carbonate*	241 mg/L	242 mg/L			E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16			
Collection Time	9:20 AM	9:20 AM			
Laboratory Sample ID Number	Q1645212021	Q1645212022			
ANALYSIS INFORMATION					
Analysis Start Date	10/26/16	10/26/16			
Analysis Start Time	12:38	12:40			
Analysis End Date	11/04/16	11/04/16			
Analysis End Time					

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TCEQ
CENTRAL FILE ROOM

SECTION IV. APPROVED LABORATORY INFORMATION

LABORATORY NAME: LCRA Environmental Laboratory Services	LABORATORY ID #: T104704218
LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, Tx 78744	TELEPHONE #: (512) 730-6022
LAB CONTACT NAME: Bhanu Acharya	SIGNATURE: Bhanu

SECTION V. TCEQ REVIEW STATUS

☐ ACCEPTED ☐ DISAPPROVED	INTERNAL TCEQ INITIALS AND DATE:
REVIEW COMMENTS:	

Relinquished: 10/25/16 12:48
by: JL

Rcvd: 10/25/16 1248
by: Angel Waters
10.1°C IR7 10.0°C
CF-0.1

Q1645212

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information

PWSID#: TX **1050003**	PWS NAME: **Texas State University**	PHONE #:**(512)245-8629**

PWS TYPE: ☒ COMM ☐ NTNC | POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000

PWS CONTACT NAME: **Carl Teague Jr.** TITLE **Utilities Manager** DATE **10/25/2016**

PWS AUTHORIZED SIGNATURE: Carl Teague Jr

SECTION II. WQP TYPE

☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL | TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO

☒ DS SYSTEM ☐ ENTRY POINTS | # OF DS SAMPLES REQUIRED: **20** # OF DS SAMPLES SUBMITTED:

OF EP SAMPLES REQUIRED: # OF EP SAMPLES SUBMITTED:

☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR **Phosphate**

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	001 Sample Address: San Marcos Hall A	002 Sample Address: San Marcos Hall B	003 Sample Address: FCS A	004 Sample Address: FCS B	ANALYSIS METHOD
1925 pH	7.6	7.6	7.6	7.6	
1996 Temperature (°C)	24	24	23	23	
1927 Alkalinity (mg/L)	283 mg/L	283 mg/L	283 mg/L	284 mg/L	SM2320B
1064 Conductivity (µmho/cm)	635 umho/cm	633 umho/cm	634 umho/cm	634 umho/cm	SM2510B
1919 Calcium (mg/L)	96.1 mg/L	96.2 mg/L	95.5 mg/L	95.9 mg/L	E200.7
☒ 1044 Orthophosphate*	0.218 mg/L	0.204 mg/L	0.228 mg/L	0.210 mg/L	E300.0
☒ 1049 Silica*	11.2 mg/L	11.3 mg/L	11.3 mg/L	11.3 mg/L	SM4500-SiO2-C
☒ 1919 Calcium Carbonate*	240 mg/L	240 mg/L	238 mg/L	239 mg/L	E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16	10-25-16	10-25-16	
Collection Time	9:40 AM	9:40 AM	9:50 AM	9:50 AM	
Laboratory Sample ID Number	Q1645212001	Q1645212002	Q1645212003	Q1645212004	
ANALYSIS INFORMATION					
Analysis Start Date	10/25/16	10/25/16	10/25/16	10/25/16	
Analysis Start Time	17:39	18:00	18:21	18:41	
Analysis End Date	11/04/16	11/04/16	11/04/16	11/04/16	
Analysis End Time					

SECTION IV. APPROVED LABORATORY INFORMATION

LABORATORY NAME: LCRA Environmental Laboratory Services | LABORATORY ID #: T104704218

LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, TX 78744 | LAB PHONE #: (512)730-6022

LAB CONTACT NAME: Bhanu Acharya | SIGNATURE: Bhanu

SECTION V. TCEQ REVIEW STATUS

☐ ACCEPTED ☐ DISAPPROVED | INTERNAL TCEQ INITIALS AND DATE:

REVIEW COMMENTS:

Relinquished by: 10/25/16 12:40 Received: 10/25/16 1248

by: M by: Angel Mata

10.1°C IR7 10.9

CF-0.

TCEQ-20679 (01-11-15)

Q1645212 232650

TCEQ

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information

PWSID#: TX **1050003**	PWS NAME: **Texas State University**	PHONE #:**(512)245-8629**
PWS TYPE: ☒ COMM ☐ NTNC	POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000	
PWS CONTACT NAME: **Carl Teague Jr.**	TITLE **Utilities Manager**	DATE **10/25/2016**
PWS AUTHORIZED SIGNATURE: Carl Teague		

SECTION II. WQP TYPE

☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL	TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO	
☒ DS SYSTEM ☐ ENTRY POINTS	# OF DS SAMPLES REQUIRED: **20**	# OF DS SAMPLES SUBMITTED:
	# OF EP SAMPLES REQUIRED:	# OF EP SAMPLES SUBMITTED:
☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR **Phosphate**		

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	005 Sample Address: LAUREL A	006 Sample Address: LAUREL B	007 Sample Address: Brogdon A	008 Sample Address: Brogdon B	ANALYSIS METHOD
1925 pH	7.5	7.5	7.6	7.6	
1996 Temperature (°C)	23	23	24	24	
1927 Alkalinity (mg/L)	286 mg/L	284 mg/L	283 mg/L	284 mg/L	SM2320B
1064 Conductivity (µmho/cm)	636 umho/cm	635 umho/cm	634 umho/cm	635 umho/cm	SM2510B
1919 Calcium (mg/L)	95.3 mg/L	95.7 mg/L	95.8 mg/L	96.1 mg/L	E200.7
☒ 1044 Orthophosphate*	0.244 mg/L	0.256 mg/L	0.200 mg/L	0.208 mg/L	E300.0
☒ 1049 Silica*	11.3 mg/L	11.4 mg/L	11.3 mg/L	11.3 mg/L	SM4500-Si.02-C
☒ 1919 Calcium Carbonate*	238 mg/L	239 mg/L	239 mg/L	240 mg/L	E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16	10-25-16	10-25-16	
Collection Time	10:50 AM	10:50 AM	11:00 AM	11:00 AM	
Laboratory Sample ID Number	Q1645212005	Q1645212006	Q1645212007	Q1645212008	
ANALYSIS INFORMATION					
Analysis Start Date	10/25/16	10/25/16	10/26/16	10/26/16	
Analysis Start Time	19:02	19:23	10:14	10:34	
Analysis End Date	11/04/16	11/04/16	11/04/16	11/04/16	
Analysis End Time					

SECTION IV. APPROVED LABORATORY INFORMATION

LABORATORY NAME: URA Environmental laboratory services	LABORATORY ID #: T104704218
LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, TX 78744	LAB PHONE #: (512)-730-6022
LAB CONTACT NAME: Bhanu Acharya	SIGNATURE: Bhanu

SECTION V. TCEQ REVIEW STATUS

☐ ACCEPTED ☐ DISAPPROVED	INTERNAL TCEQ INITIALS AND DATE:
REVIEW COMMENTS:	

Relinquished: 10/25/16 12:48
by XL

Rec'd 10/27/16 1245
by Angel Martinez

10.1 IR7 10.0°C
CF-0.1

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information		
PWSID#: TX **1050003**	PWS NAME: **Texas State University**	PHONE #:**(512)245-8629**
PWS TYPE: ☒ COMM ☐ NTNC	POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000	
PWS CONTACT NAME: **Carl Teague Jr.**	TITLE **Utilities Manager**	DATE **10/25/2016**
PWS AUTHORIZED SIGNATURE: Carl Teague Jr		

SECTION II. WQP TYPE		
☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL	TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO	
☒ DS SYSTEM ☐ ENTRY POINTS	# OF DS SAMPLES REQUIRED: **20**	# OF DS SAMPLES SUBMITTED:
	# OF EP SAMPLES REQUIRED:	# OF EP SAMPLES SUBMITTED:
☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR **Phosphate**		

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	009 Sample Address: Blanco A	010 Sample Address: Blanco B	011 Sample Address: Jowers A	012 Sample Address: Jowers B	ANALYSIS METHOD
1925 pH	7.5	7.5	7.6	7.6	
1996 Temperature (°C)	23	23	24	24	
1927 Alkalinity (mg/L)	283 mg/L	284 mg/L	282 mg/L	283 mg/L	SM2320B
1064 Conductivity (µmho/cm)	636 umho/cm	637 umho/cm	636 umho/cm	638 umho/cm	SM2510B
1919 Calcium (mg/L)	95.8 mg/L	96.4 mg/L	96.4 mg/L	96.5 mg/L	E200.7
☒ 1044 Orthophosphate*	0.212 mg/L	0.246 mg/L	0.184 mg/L	0.222 mg/L	E300.0
☒ 1049 Silica*	11.4 mg/L	11.4 mg/L	11.4 mg/L	11.6 mg/L	SM4500-SiO2-C
☒ 1919 Calcium Carbonate*	239 mg/L	241 mg/L	241 mg/L	241 mg/L	E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16	10-25-16	10-25-16	
Collection Time	9:55 Am	9:55 AM	10:10 AM	10:10 AM	
Laboratory Sample ID Number	Q1645212009	Q1645212010	Q1645212011	Q1645212012	
ANALYSIS INFORMATION					
Analysis Start Date	10/26/16	10/25/16	10/26/16	10/25/16	
Analysis Start Time	10:55	21:27	09:53	21:48	
Analysis End Date	11/04/16	11/04/16	11/04/16	11/04/16	
Analysis End Time					

SECTION IV. APPROVED LABORATORY INFORMATION	
LABORATORY NAME: LCRA Environmental Laboratory Services	LABORATORY ID #: T104704218
LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, Tx 78744	PHONE #: (512) 730-6022
LAB CONTACT NAME: Bhanu Acharya	SIGNATURE: Bhanu

SECTION V. TCEQ REVIEW STATUS	
☐ ACCEPTED ☐ DISAPPROVED	INTERNAL TCEQ INITIALS AND DATE:
REVIEW COMMENTS:	

Relinquished: 10/25/16 12:48
by: XL

Recvd: 10/25/16 1248
by: Angel Martinez

10.1°C IR7 10.0°C
CF-0.1

TCEQ

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information

PWSID#: TX **1050003**	PWS NAME: **Texas State University**	PHONE #:**(512)245-8629**
PWS TYPE: ☒ COMM ☐ NTNC	POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000	
PWS CONTACT NAME: **Carl Teague Jr.**	TITLE **Utilities Manager**	DATE **10/25/2016**
PWS AUTHORIZED SIGNATURE: Carl Teague Jr		

SECTION II. WQP TYPE

☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL	TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO	
☒ DS SYSTEM ☐ ENTRY POINTS	# OF DS SAMPLES REQUIRED: **20**	# OF DS SAMPLES SUBMITTED:
	# OF EP SAMPLES REQUIRED:	# OF EP SAMPLES SUBMITTED:

☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR **Phosphate**

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	013 Sample Address:	014 Sample Address:	015 Sample Address:	016 Sample Address:	ANALYSIS METHOD
	Tower A	Tower B	Elliot A	Elliot B	
1925 pH	7.5	7.5	7.6	7.6	
1996 Temperature (°C)	25	25	25	25	
1927 Alkalinity (mg/L)	285 mg/L	285 mg/L	284 mg/L	286 mg/L	SM2320B
1064 Conductivity (µmho/cm)	636 umho/cm	637 umho/cm	636 umho/cm	637 umho/cm	SM2510B
1919 Calcium (mg/L)	95.9 mg/L	96.3 mg/L	96.3 mg/L	96.3 mg/L	E200.7
☒ 1044 Orthophosphate*	0.238 mg/L	0.205 mg/L	0.251 mg/L	0.256 mg/L	E300.0
☒ 1049 Silica*	11.7 mg/L	11.7 mg/L	11.5 mg/L	11.6 mg/L	SM4500-SiO2C
☒ 1919 Calcium Carbonate*	239 mg/L	240 mg/L	240 mg/L	240 mg/L	E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16	10-25-16	10-25-16	
Collection Time	10:25 AM	10:25 AM	10:35 AM	10:35 AM	
Laboratory Sample ID Number	Q1645212013	Q1645212014	Q1645212015	Q1645212016	
ANALYSIS INFORMATION					
Analysis Start Date	10/25/16	10/25/16	10/25/16	10/25/16	
Analysis Start Time	22:09	22:29	22:50	23:11	
Analysis End Date	11/04/16	11/04/16	11/04/16	11/04/16	
Analysis End Time					

SECTION IV. APPROVED LABORATORY INFORMATION

LABORATORY NAME: LCRA Environmental Laboratory Services	LABORATORY ID #: T104704218
LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, TX 78744	LAB PHONE #: (512) 730-6092
LAB CONTACT NAME: Bhanu Acharya	SIGNATURE: BAcharya

SECTION V. TCEQ REVIEW STATUS

☐ ACCEPTED ☐ DISAPPROVED	INTERNAL TCEQ INITIALS AND DATE:
REVIEW COMMENTS:	

Relinquished: 10/25/16 12:48 by: JL

Rcvd: 10/25/16 1247 by Angel Martinez

10°C IRT 10°C CF-0(

TCEQ

LEAD AND COPPER WATER QUALITY PARAMETER REPORT FORM 20679

Texas Commission on Environmental Quality – Public Drinking Water Section

SECTION I. Public Water System Information

PWSID#: TX 1050003	PWS NAME: Texas State University	PHONE #: (512)245-8629
PWS TYPE: ☒ COMM ☐ NTNC	POPULATION: ☐ >100,000 ☐ 50,001 TO 100,000 ☒ < 50,000	
PWS CONTACT NAME: Carl Teague Jr.	TITLE: Utilities Manager	DATE: 10/25/2016
PWS AUTHORIZED SIGNATURE: Carl Teague		

SECTION II. WQP TYPE

☐ INITIAL ☒ ANNUAL ☐ TRIENNIAL	TAP LEAD OR COPPER EXCEEDANCE: ☒ YES ☐ NO	
☒ DS SYSTEM ☐ ENTRY POINTS	# OF DS SAMPLES REQUIRED: 20	# OF DS SAMPLES SUBMITTED:
	# OF EP SAMPLES REQUIRED:	# OF EP SAMPLES SUBMITTED:

☒ PWS USES ORTHOPHOSPHATE, SILICA, OR CALCIUM INHIBITOR: Phosphate

SECTION III. WQP ANALYTICAL INFORMATION

PARAMETERS (LAB APPROVED) Analyte Code / Name / Unit of Measurement * required when using a corrosion control inhibitor containing phosphate or silicate compounds	017 Sample Address:	018 Sample Address:	019 Sample Address:	020 Sample Address:	ANALYSIS METHOD
	Burleson A	Burleson B	Arnold A	Arnold B	
1925 pH	7.5	7.5	7.5	7.5	
1996 Temperature (°C)	23	23	22	22	
1927 Alkalinity (mg/L)	283 mg/L	283 mg/L	284 mg/L	284 mg/L	SM2320B
1064 Conductivity (µmho/cm)	636 umho/cm	636 umho/cm	637 umho/cm	636 umho/cm	SM2510B
1919 Calcium (mg/L)	96.5 mg/L	97.1 mg/L	96.4 mg/L	97.0 mg/L	E200.7
☒ 1044 Orthophosphate*	0.184 mg/L	0.196 mg/L	0.207 mg/L	0.204 mg/L	E300.0
☒ 1049 Silica*	11.7 mg/L	11.6 mg/L	11.5 mg/L	11.5 mg/L	SM4500-SiO2-C
☒ 1919 Calcium Carbonate*	241 mg/L	242 mg/L	241 mg/L	242 mg/L	E2340B
SAMPLE INFORMATION					
Collection Date	10-25-16	10-25-16	10-25-16	10-25-16	
Collection Time	9:00 AM	9:30 AM	9:10 AM	9:10 AM	
Laboratory Sample ID Number	Q1645212017	Q1645212018	Q1645212019	Q1645212020	
ANALYSIS INFORMATION					
Analysis Start Date	10/25/16	10/25/16	10/26/16	10/26/16	
Analysis Start Time	23:32	23:52	00:13	00:34	
Analysis End Date	11/04/16	11/04/16	11/04/16	11/04/16	
Analysis End Time					

SECTION IV. APPROVED LABORATORY INFORMATION

LABORATORY NAME: LCRA Environmental Laboratory Services	LABORATORY ID #: T104704918
LABORATORY ADDRESS: 3505 Montopolis Drive, Austin, TX 78744	LAB PHONE #: (512)730-6092
LAB CONTACT NAME: Bhanu Acharya	SIGNATURE: LABaul

SECTION V. TCEQ REVIEW STATUS

☐ ACCEPTED ☐ DISAPPROVED	INTERNAL TCEQ INITIALS AND DATE:
REVIEW COMMENTS:	

Relinquished: 10/25/16 12:48
by: JC

Rec'd: 10/25/16 1244
by: Angel Mata

12.1°C IR7 CF-0.1 10.9°C

Environmental Laboratory Services
The Solution Lab

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone: (512)356-6022
Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212022 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: EP001 B Date Collected: 10/25/2016 09:20 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	242	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.6	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 21:28	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.246	mg/L	0.0500	0.0200		5	10/26/16 18:52	ML	10/26/16 18:52	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	286	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:40	ADG	10/26/16 12:40	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.7	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

Environmental Laboratory Services
The Solution Lab

LCRA Environmental Laboratory Services
3505 Montopolis Drive
Austin, TX 78744
Phone: (512)356-6022
Fax: (512)356-6021

ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212021
Sample ID: EP001 A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 09:20

Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.6	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 21:21	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.238	mg/L	0.0500	0.0200		5	10/26/16 18:31	ML	10/26/16 18:31	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	285	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:38	ADG	10/26/16 12:38	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.7	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

Environmental Laboratory Services
The Solution Lab

LCRA Environmental Laboratory Services
3505 Montopolis Drive
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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: **Q1645212001**
Sample ID: **SAN MARCOS HALL A**
Project ID: **WATER QUALITY PARAMETERS**

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 09:40
Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.1	mg/L	0.200	0.0700		1	10/26/16 10:19	BS	11/01/16 17:52	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.218	mg/L	0.0500	0.0200		5	10/25/16 17:39	ML	10/25/16 17:39	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/25/16 20:45	ADG	10/25/16 20:45	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	635	umhos/cm	1.00	1.00		1	10/26/16 11:57	ADG	10/26/16 11:57	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.2	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212002 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: SAN MARCOS HALL B Date Collected: 10/25/2016 09:40 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.2	mg/L	0.200	0.0700		1	10/26/16 10:19	BS	11/01/16 17:58	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.204	mg/L	0.0500	0.0200		5	10/25/16 18:00	ML	10/25/16 18:00	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/25/16 20:57	ADG	10/25/16 20:57	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	633	umhos/cm	1.00	1.00		1	10/26/16 11:58	ADG	10/26/16 11:58	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212003
Sample ID: FCS A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 09:50
Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	238	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.5	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:00	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.228	mg/L	0.0500	0.0200		5	10/25/16 18:21	ML	10/25/16 18:21	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/25/16 21:08	ADG	10/25/16 21:08	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	634	umhos/cm	1.00	1.00		1	10/26/16 12:00	ADG	10/26/16 12:00	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212004 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: FCS B Date Collected: 10/25/2016 09:50 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	239	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.9	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 18:40	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.210	mg/L	0.0500	0.0200		5	10/25/16 18:41	ML	10/25/16 18:41	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/25/16 21:19	ADG	10/25/16 21:19	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	634	umhos/cm	1.00	1.00		1	10/26/16 12:02	ADG	10/26/16 12:02	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212005 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: LAUREL A Date Collected: 10/25/2016 10:50 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	238	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.3	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:07	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.244	mg/L	0.0500	0.0200		5	10/25/16 19:02	ML	10/25/16 19:02	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	286	mg/L	20.0	20.0		1	10/25/16 21:30	ADG	10/25/16 21:30	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:03	ADG	10/26/16 12:03	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: **Q1645212006** Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: **LAUREL B** Date Collected: 10/25/2016 10:50 Sample Type: SAMPLE
Project ID: **WATER QUALITY PARAMETERS**

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	239	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.7	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:13	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.256	mg/L	0.0500	0.0200		5	10/25/16 19:23	ML	10/25/16 19:23	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	635	umhos/cm	1.00	1.00		1	10/26/16 12:05	ADG	10/26/16 12:05	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.4	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212007
Sample ID: BROGDON A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 11:00

Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	239	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.8	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:20	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.200	mg/L	0.0500	0.0200		5	10/26/16 10:14	ML	10/26/16 10:14	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	634	umhos/cm	1.00	1.00		1	10/26/16 12:12	ADG	10/26/16 12:12	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: **Q1645212008** Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: **BROGDON B** Date Collected: 10/25/2016 11:00 Sample Type: SAMPLE
Project ID: **WATER QUALITY PARAMETERS**

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.1	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:27	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.208	mg/L	0.0500	0.0200		5	10/26/16 10:34	ML	10/26/16 10:34	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	635	umhos/cm	1.00	1.00		1	10/26/16 12:14	ADG	10/26/16 12:14	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.3	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212009 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: BLANCO A Date Collected: 10/25/2016 09:55 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	239	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.8	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:33	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.212	mg/L	0.0500	0.0200		5	10/26/16 10:55	ML	10/26/16 10:55	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:15	ADG	10/26/16 12:15	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.4	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: **Q1645212010** Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: **BLANCO B** Date Collected: 10/25/2016 09:55 Sample Type: SAMPLE
Project ID: **WATER QUALITY PARAMETERS**

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.4	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:40	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.246	mg/L	0.0500	0.0200		5	10/25/16 21:27	ML	10/25/16 21:27	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:17	ADG	10/26/16 12:17	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.4	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212011
Sample ID: JOWERS A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 10:10
Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.4	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:47	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.184	mg/L	0.0500	0.0200		5	10/26/16 09:53	ML	10/26/16 09:53	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	282	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:18	ADG	10/26/16 12:18	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.4	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212012 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: JOWERS B Date Collected: 10/25/2016 10:10 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.5	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 19:53	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.222	mg/L	0.0500	0.0200		5	10/25/16 21:48	ML	10/25/16 21:48	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	638	umhos/cm	1.00	1.00		1	10/26/16 12:20	ADG	10/26/16 12:20	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.6	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212013 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: TOWER A Date Collected: 10/25/2016 10:25 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	239	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	95.9	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 20:34	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.238	mg/L	0.0500	0.0200		5	10/25/16 22:09	ML	10/25/16 22:09	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	285	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:22	ADG	10/26/16 12:22	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.7	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212014 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: TOWER B Date Collected: 10/25/2016 10:25 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.3	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 20:41	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.205	mg/L	0.0500	0.0200		5	10/25/16 22:29	ML	10/25/16 22:29	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	285	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:23	ADG	10/26/16 12:23	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.7	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212015 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: ELLIOT A Date Collected: 10/25/2016 10:35 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.3	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 20:48	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.251	mg/L	0.0500	0.0200		5	10/25/16 22:50	ML	10/25/16 22:50	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:25	ADG	10/26/16 12:25	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.5	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212016
Sample ID: ELLIOT B
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 10:35
Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	240	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.3	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 20:54	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.256	mg/L	0.0500	0.0200		5	10/25/16 23:11	ML	10/25/16 23:11	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	286	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:26	ADG	10/26/16 12:26	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.6	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212017
Sample ID: BURLESON A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 09:00
Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.5	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 20:14	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.184	mg/L	0.0500	0.0200		5	10/25/16 23:32	ML	10/25/16 23:32	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:32	ADG	10/26/16 12:32	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.7	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: **Q1645212018** Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: **BURLESON B** Date Collected: 10/25/2016 09:00 Sample Type: SAMPLE
Project ID: **WATER QUALITY PARAMETERS**

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	242	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	97.1	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 21:01	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.196	mg/L	0.0500	0.0200		5	10/25/16 23:52	ML	10/25/16 23:52	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	283	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:34	ADG	10/26/16 12:34	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.6	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212019
Sample ID: ARNOLD A
Project ID: WATER QUALITY PARAMETERS

Date Received: 10/25/2016 12:48
Date Collected: 10/25/2016 09:10

Matrix: Drinking Water
Sample Type: SAMPLE

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	241	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	96.4	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 21:08	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.207	mg/L	0.0500	0.0200		5	10/26/16 00:13	ML	10/26/16 00:13	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	637	umhos/cm	1.00	1.00		1	10/26/16 12:35	ADG	10/26/16 12:35	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.5	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N

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ANALYTICAL RESULTS

Workorder: Q1645212

Lab ID: Q1645212020 Date Received: 10/25/2016 12:48 Matrix: Drinking Water
Sample ID: ARNOLD B Date Collected: 10/25/2016 09:10 Sample Type: SAMPLE
Project ID: WATER QUALITY PARAMETERS

Parameters	Results	Units	LOQ	LOD	ML	DF	Prepared	By	Analyzed	By	Qual
INORGANICS											
Analysis Desc: E2340B, Hardness			Preparation Method: E2340B, Hardness								
			Analytical Method: E2340B, Hardness								
Hardness, Calcium	242	mg/L				1	11/04/16	PJO	11/04/16	PJO	N
Analysis Desc: E200.7 Metals, Trace Elements			Preparation Method: E200.7 Prep								
			Analytical Method: E200.7 Metals, Trace Elements								
Calcium Total	97.0	mg/L	0.200	0.0700		1	10/26/16 12:53	BS	11/01/16 21:14	FO	N
Analysis Desc: E300.0, Anions			Preparation Method: E300.0, Anions								
			Analytical Method: E300.0, Anions								
ortho-Phosphate (as P)	0.204	mg/L	0.0500	0.0200		5	10/26/16 00:34	ML	10/26/16 00:34	ML	N
ALKALINITY											
Analysis Desc: SM2320B, Alkalinity			Preparation Method: SM2320B, Alkalinity								
			Analytical Method: SM2320B, Alkalinity								
Total Alkalinity (CaCO3)	284	mg/L	20.0	20.0		1	10/26/16	ADG	10/26/16	ADG	N
Conductance @ 25°C											
Analysis Desc: SM2510B, Conductance			Preparation Method: SM2510B, Conductance								
			Analytical Method: SM2510B, Conductance								
Specific Conductance	636	umhos/cm	1.00	1.00		1	10/26/16 12:37	ADG	10/26/16 12:37	ADG	
SILICA											
Analysis Desc: SM4500-SiO2-C, Silica			Preparation Method: SM4500-SiO2-C, Silica								
			Analytical Method: SM4500-SiO2-C, Silica								
Silica, Dissolved	11.5	mg/L	0.500	0.200		1	10/26/16	MO	10/26/16	MO	N