

ABCWUA Compliance Division Protocol Agreement

Effective Date: 7/25/18 Program: WT Protocol: TOC Revision: 01

Objective: To monitor variations in Total Organic Carbon (TOC) in drinking water in the distribution system.

Reference Document(s): None

Sample Purpose: Monitoring

Sample Collection Type/Details: Grab.

Sample Collection Frequency: As needed.

Sample Matrix: Drinking water

Sample Point Nomenclature Convention: Most samples points to begin with "WD" or "WR". Other sample point nomenclature is used.

Sampling Personnel: Water Quality Specialist or other designated water quality personnel.

Field Instructions: Flush tap for five (5) minutes. Record free and total chlorine residual. Enter zero (0) if no residual. Record water quality field parameters and meter number.

Laboratory: Water Quality Laboratory

External Laboratory Instructions: N/A

Special Handling Instructions: N/A

Chain of Custody: Required ☐ Yes ☒ No

QA/QC Data Requirements: QA/QC data required and available upon request.

Revision History		
Revision #	Effective Date	Description of Changes
00		New Form. Update Contacts
01		Update contacts. Change TOC vials from 2-40ml to 1-250 ml amber bottle.

ABCWUA Compliance Division Protocol Agreement

Effective Date: 7/25/18 Program: WT Protocol: TOC Revision: 01

Client Contact(s) (include names of persons responsible for taking action if there is an exceedance or problem with sample):

Priority	Contact	Title	Phone	Cell Phone	Email
1	Michael Richardson	WQ Superintendent	289-3383	553-5731	mrichardson@abcwua.org
2	Elizabeth Anderson	WQ Program Manager	289-3382	414-4043	eanderson@abcwua.org
3					

Reporting Criteria: PDF Client Report

Billing Method (expedited turnaround time costs more): 21160

Protocol Agreement:

Protocol Agreement can only be approved or modified by 1) Compliance Division Manager, 2) Two Program Managers, or 3) Designated External Client Representative, and WQL Program Manager.

MICHAEL RICHARDSON WATER QUALITY SUPERVISOR
 Prepared by Title Date 7/25/2018 ²⁴ ^{2KA}

[Signature] 7/24/2018
 Program Manager Approval Date

Designated External Client Representative Title Approval Date

[Signature] Approval Date
 Compliance Division Manager

[Signature] 7/25/18
 WQL Program Manager Approval Date

Program: WT

Protocol: TOC

Revision: 01

Program: W1		Protocol: TOL		Revision: 01												Reg Limit		Flag Limit	
Primary Laboratory	External Laboratory	Sample Kit	Analyte	Method	Preservation	Units	EPA D/Q Limit	EPA D/Q Limit Type	Hold Time	Turn Around Time	Analyte Cost	Low	High	Low	High				
WQL	NA	250 ml Amber bottle	Total Organic Carbon	SM5310 C-2000	cool to ≤ 6°C / Prepreserved by Lab with H ₃ PO ₄	mg/L			28 days	48 hours	\$30.00								
FIELD ANALYSIS	FIELD	NA	FLDCL2 (FREE CHLORINE RESIDUAL)	SM4500 CL, G-2000	-	mg/L	0.1		-	-	0.2	4.0	0.4	1.5					
			FLDTCL2 (TOTAL CHLORINE RESIDUAL)	SM4500 CL, G-2000	-	mg/L	0.1		-	-			0.4	1.5					
			METER NUMBER	Serial Number															
			METER TYPE	Colorimeter															
			PHOSPHORUS, REACTIVE (ORTHOPHOSPHATE)	SM8048 P E-1999	-	mg/L	0.1		-	-									
			METER NUMBER	Serial Number															
			METER TYPE	Colorimeter															
			FLDCOND (SPECIFIC CONDUCTANCE)	SM2510 B-1997	-	µmhos/cm			-	-			200	650					
			FLDDO (DISSOLVED OXYGEN)	SM4500 O, G-2001	-	mg/L			-	-									
			FLDEH (OXIDATION REDUCTION POTENTIAL)	SM2580 A-1997	-	mV			-	-			300	750					
			FLDPH (pH)	SM4500 H+ B-2000	-	STD UNIT			-	-			7	9.5					
			FLDTEMPC (TEMPERATURE)	SM2550-2000	-	Deg C			-	-			4	35					
			METER NUMBER	Serial Number	-				-	-									
			METER TYPE	YSI-SONDE															
Sample Cost:											\$30.00								

*Any approved method in 40 CFR 136, 141, or 143 as applicable may be substituted.

*Any approved method in 40 CFR 136, 141, or 143 as applicable may be substituted.