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Certification Number: CA1312 NELAP Certification number: CA00046 DoD-ELAP Certificate number: 4064.01

Data Validatable Report

December 9, 2021

AECOM 1001 Bishop Street, Suite 1600 Honolulu, Hawaii 96813

Attn: Alethea Ramos

Title: Report of Data: Case 98382

Project: 60571032 CV18F0126 Red Hill Fuel Storage, HI

Contract #: Prime contract # for DoD: NAVY CLEAN N62742-17-F-1800, CV18F0126 Subcontract: 18S-22209-HI27

Dear Ms. Ramos:

One water sample was received December 3, 2021. Written results for the requested analyses are being provided on this December 9, 2021.

Results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

If you have any questions or require further information, please contact your APPL Project Manager, Libby Cheeseborough, libby@applinc.com, at your convenience. Thank you for choosing APPL, Inc.

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. These test results meet all requirements of NELAC and DoD QSM. Release of the hard copy has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Lon E Pol

Loren Portwood, Laboratory Director APPL, Inc.

LP/lac Enclosure cc: File

Data Validation Package

for

60571032 CV18F0126 Red Hill Fuel Storage APPL SDG 98382 TABLE OF CONTENTS

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CASE NARRATIVE

Case Narrative

ARF: 98382

Project: 60571032 CV18F0126 Red Hill Fuel Storage. HI

Sample Receipt Information:

One water sample was received December 3, 2021 at 0.1°C. The sample group was assigned Analytical Request Form (ARF) number 98382.

Sample Preparation and Analysis Information:

For the EPA 9060A analysis, the samples were prepared according to the methods.

Only the portion of the injection log relative to these samples is included. A full sequence log is available upon request. Measurement uncertainty can be reported upon request.

Analytical Exceptions, Deviations and Abnormalities.

None.

							Method
SDG	Received	Client ID	APPL ID	Collected DateTime	Matrix	Method	Description
98382	12/3/2021	ERH2016	BA47126	12/2/2021 11:36:00 AM	WATER	SW846 9060A	9060A TOC

Abbreviations and Flags

	5
FLAG	DESCRIPTION
#	Recovery or RPD outside control limits
*	Recovery or RPD outside control limits
В	Analyte detected in associated method blank
C1	Reason for correction: wrote incorrect response
C2	Reason for correction: calculated incorrectly
C3	Reason for correction: needs to be rechecked
C4	Reason for correction: data not usable
DO	Diluted out
E	Exceeds linear range
F	Estimated value
G1	Includes a wide range of hydrocarbons which does not match our gasoline standard
G10	Includes a match to hydrocarbon profiles within the range of mineral spirits
G11	Includes a match to hydrocarbon profiles within the range of JP-4
GI2	Pattern does not match the gasoline standard; the carbon range for this sample is consistent with JP8
	Analyte concentration may be biased due to correctiver
G14 G2	Clessly recombles the beiling point bydroserben profile consistent with weathered assoling
G2 G3	Includes higher beiling bydrocarbons
G1	Includes dominant peak(s) not indicative of petroleum hydrocarbons
G5	Is mainly dominant peak(s) not indicative of petroleum hydrocarbons
G6	Contains recognizable contaminant peak(s) which has been removed from quantitation
G7	Is mainly a match to hydrocarbons within the range of gasoline
G8	Closely resembles the boiling point hydrocarbon profile consistent with weathered gasoline
G9	Includes hydrocarbons within the range of kerosene
J	Estimated value
Μ	Matrix effect
MI1	Manual integration: integration does not follow baseline
MI2	Manual integration: non-target peak interference
MI3	Manual integration: to split a peak that was integrated as one peak by the computer
MI4	Manual integration: to integrate a split peak
MI5	Manual integration: the whole peak or part of the peak was not integrated
MI6	Manual integration: computer integrated wrong peak
MI7	Manual integration: other - explain
MDL	Method detection limit
	Not detected
	Non-target
	Acceptance chiena not met Includes wide range of hydrocarbons not indicative of discel
	Includes wide range of hydrocarbons not indicative of diesel
	Includes lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T2 M	Is mainly lower boiling hydrocarbons, i.e. mineral spirits, kerosene, stoddard solvent, white gas
T3 I	Includes higher boiling hydrocarbons, i.e. asphaltene waster oil motor oil or weathered diesel fuel
T3 M	Is mainly higher boiling hydrocarbons, i.e. asphaltene, waster oil, motor oil, or weathered diesel fuel
T4 I	Includes dominant peak(s) not indicative of hydrocarbons
T4 M	Is mainly dominant peak(s) not indicative of hydrocarbons
T5	Contains recognizable contaminant peak(s) which has been removed from quantitation
Τ6	Is mainly a match to hydrocarbons within range of diesel fuel
Τ7	Closely resembles the boiling point hydrocarbon profile consistent with diesel fuel
T8	Includes a match to hydrocarbon profiles within range of diesel and kerosene fuel
T9 I	Includes non-diesel hydrocarbons within boiling point range of diesel fuel
T9 M	Is mainly non-diesel hydrocarbons within boiling point range of diesel fuel.
Y	Percent difference between primary and confirmation column > 40%

SAMPLE RECORDS MANAGEMENT CHAIN OF CUSTODY, ARF, CRF, AND CLIENT COMMUNICATION

APPL - Anal	ysis Request Form 98382
Client: AECOM	Received by: MSA
Address: 1001 Bishop Street, Suite 1600	Date Received: 12/03/21 Time: 11:35
Honolulu, HI 96813	Delivered by: FEDEX
Attn: Alethea Ramos	Shuttle Custody Seals (Y/N): <u>Y</u> Time Zone: <u>-10</u>
Phone: <u>808-954-4536</u> Fax: <u>808-523-8950</u>	Chest Temp(s): 0.1°C
Job: 60571032 CV18F0126 Red Hill Fuel Storage	Color: K-PurpleYellow
PO #: 18S-22209-HI27 PO# 102604	Samples Chilled until Placed in Refrig/Freezer: Y
Chain of Custody (Y/N): Y # 53090	Project Manager: Libby Cheesebor
RAD Screen (Y/N): Y pH (Y/N): N	QC Report Type: DVP4DOD/EQUIS/HI
Turn Around Type: 1 WEEK	Due Date: 12/10/21

Comments:

PM: login and F1s to Margie.Pascua@aecom.com & alethea.ramos@aecom.com PM: For Drinking Water DOC, use \$5310CD. AN: 7 day TAT for Form 1s; 21 day TAT for PKG STYLE 1; DOD v5.1; DOD Forms: LOD database Report MS/MSD/DUPs when AECOM sample used Wetlab: EPA 300 (NO3, Br,F,CL,SO4). EPA 353.2 (TOXN). 8260: BTEX & TPH-G only; 8270 SIM: 1-methylnaphthalene, 2-methylnaphthalene & naphthalene only.

TPH-D/O both with and w/o SGC, reverse surrog for SGC; analyze SGC if detections. DO NOT Q-DELETE.

RSK: Methane only; 8011: EDB only; \$87DC53W5: report phenol + TICs

FR: email ftp info to Margie, alethea.ramos@aecom.com, Stella, trommelfanger@lab-data.com & jcanlas

<u>Sa</u>	mple Distribution: tlab: 1-\$TOCW53		<u>Charges:</u>	Invoice To: ACCOUNTS PAYABLE 1001 Bishop Street, Ste 1600 USAPImaging@aecom.com mary.basano@aecom.com
	Client ID	APPL ID S	ampled Analyse	s Requested
1.	ERH2016	BA47126W 12/0 LCSD	2/21 11:36 \$TOCV	V53 See Comments

APPL Sample Receipt Form

Sample	Container Type	Count	p	Sample	Container Type	Count	р
BA47126	³² Clear VOA - H2SO4	2	NA				

98382 OF CUSTODY RECORD 1/1	D.C. 53090 Not-East	PRINT	Phone: JUE-521-361		Fax:	(Shere Inith)		Method Number Date Shipped: \2/2/2/	Carrier: Fédtx	Waybill No.:	Comments:		Note: Log Not in	separate 30 Ge tran	officer Colles						Sample Disposal:	Time Received by:	Time Received at lab by: 1 11 35 Patiens 40 11 +1	Sampling Information
CHAIN	5-2175 4422 m C.(PLEASE		. , Sto. 162	33	econ. (an	m. (an	sis Requested														Date	Date 12 - 3-2	ervative and
	ne: (559) 27. : (559) 275-4 @ applinc.co		AECUT	1 Birlap G	11, Ht 96	Juill Da	nging Caek	Analy	09	ьРха	17	0	X			·								Container Press
	The Pho Fax	Invoice to:	Company Name:	Address: 100	1-Lin	Attn: Sheree	Email: USALA		Matrix		.bə2 lio2	5									Other:	Relinquished by:	Relinquished by:	everse side for
L, Inc.	perance A CA 93611 plinc.con		21						SIS	nistno ^r	Aq Aq	No ole	727			 -	$\overline{}$] 24/48 Hrs.			See r
APPI	908 N Tem Clovis, (www.ap		8-521-30								·	Time To Collected Z	1136 H								⇒ □ 3 days	by:	by:	ttory Copy
	·.		Phone: 20		Fax:						m	Date Collected	hrzn								I: Check one One week	Received	Received	ow: Labora
C/B		RINT						(Print)	n ph, ad	(Signature)	tur J	ocation	715-05					THEI AW			and Requested ard 2-3 wk	Time 1530	Time	Yell
		PLEASE PI		Ste 1600	~		CEAN. Car	Sampler (MY, G	Sampler	MONN.	т —	LET.								Turnarou Standa	Date	Date	ort
		Report to:	Company Name: AECoM	Address: 1001 Bishop St.	Fundaly HI 900	Atm: Alethea Ramos	Email: Alethea. Rymus Ba	Project Name/Number	6057/022.02.21.01	Purchase Order Number	102604	Sample Identification	ED H2J6	of ę	1						Shuttle Temperature:	Relinquished by sampler: Matthew Y	Relinquished by:	White: Return to client with rep

		COC	LER	RECEIPT F	ORM	AI	RF: 98	382		
1) Project:	6057	1032 CV18F0	126 R	ed Hill Fuel	Storage	Date Received	:	12/3/202	21	
2) Coolers:		Number of C	olers	5: 1						
3)	YES	Were custody	/ seal	s present ar	nd intact?					
		How many?		2		Name/Date on	seal?	SEE BE	LOW	
4)	YES	Was there a	shippi	ng slip?		Carrier name:		FEDEX		
5)		Type of pack	ng in	cooler:	X bubble wrap	popcorn	foam	1	X plastic bags	other
					X wet ice	dry ice	no ic	e	gel ice	
6)	YES	Were cooler	empe	eratures acc	eptable?					
7)		Serial numbe	r of ca	alibrated the	rmometer used:	R3 CF:-1.9	°C			
8)		Cooler temp(s): In '	°C. Thermo	meter Temp / Co	prrected Temp				
		1: 2.0/0.1	_ 2	: 	3:	4:	5:		6:	
		7:	_ 8	:	9:	10:	11:		12:	
Chain of cu	stody									
9)	YES	Was a chain	of cus	stody receive	ed?					
10)	YES	Were the cus	tody p	papers com	olete/signed in th	ie appropriate p	places?			
Sample Lal	bels:									
11)	YES	Were all sam	ple la	bels comple	te (sample ID, d	ate/time of san	npling, e	etc.)?		
12)	YES	Did all contai	ner lal	bels agree v	/ith custody pap	ers?		•		
Sample Co	ntaine	rs:								
13)	YES	Were all cont	ainers	s sealed in s	eparate bags?					
14)	YES	Did all contail	iers a	irrive in good	d condition:(unbi	roken, no leaka	ige, no	cracked/	broken lids)?	
15)	YES	Were correct	conta	ainers and pi	reservatives use	d for the tests i	ndicate	ed?		
16)	YES	Was a suffici	ent an	nount of sar	nple sent for tes	ts indicated?				
17) N	4 NO	Were bubbles	s pres	ent in volatil	le samples?	1				
		If yes, the foll	owing	were receiv	ed with air bubi	les:				
		Larger than a	pea:							
Dreconvotio	n Hol	Smaller than	a pea	•						
		u ume. Mos o suffici	ont on	nount of hol	ding time remain	ving to analyze	the car	nnles?		
10)	NA	Was a sunici	akon i	of all non-V(ΔA preserved so	mples and writ	ten on	the sami	ole container?	
20)	NΔ	Was the pH (aren v facid	l preserved	non-VOA sampl		len on	uie sainį		
20)	NΔ	Was the pH o	of the '	"hasic" pres	onvod samplas f	or Cvanide > 1	2 Sulfi	H D< ah	evchrom >9?	
21)	NO	Were unpres		VOA Viale i	erved samples i	A Dent analysis	2, Ouiii 2	uc - 0, 11		
23)	NA	If "ves" are th	e unr	verved V	OA vials noted i	the ADD TES		D on the	ARF?	
20)	147.1	nH strin lot n	in unit Imher		C/ Wald Holed h			D on alo		
		Lab notified if	nH w	as not adeo	uate:			_		
Notes/Defic	iencie	s.	P11.0		<u> </u>					
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			•	CUS	TODY SEA	AL I				
				AEC	COM (808) 521-305					
			In	itials_JH	Date 12	221				
				4 a.s						
Description						O a a a se al			A A C	
Personnel r	eceivii	ng samples:				Second re	eviewer	•	<u>IVI ></u>	
Personnel I	apeling	g samples:	CH			Deter		ification	10/0/0004	
Project mai	ager i	io(ITIEC)	DH			Date/Time		ification	121312021	
Name of Cli	ent no	unea:						meation		

.

SAMPLE RESULTS

Wet Lab Analysis

AECOM

1001 Bishop Street, Suite 1600 Honolulu, HI 96813

APPL Inc. 908 North Temperance Avenue Clovis, CA 93611

Prep Date Analysis Date

Method	Analyte	Result	LOQ	LOD	DL	Units	DF	Prep Date Ar
Sample (Collection Date: 12/2/2021						ARF: 9	98382
Sample	ID: ERH2016						APPL	ID: BA47126
Project: 6	60571032 CV18F0126 Red	d Hill Fuel Storage						
Attn: Alet	hea Ramos							

SW846 9060A TOTAL ORGANIC CARBON	4.5	0.93	0.350	0.130	mg/L	1	12/06/21 12/06/21

QC FORMS

SW846 9060A

Form 4

Blank Summary

Lab Name: APPL, Inc.	SDG No: 98382	
Case No: 98382	Date Analyzed: 12/6/2021	
Matrix: WATER	Instrument: TICTOC	
Blank ID: 211206A-BLK	Time Analyzed: 1905	

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-LCS	Lab Control Spike	21	12/6/2021 1824
211206A-BLK	Blank	22	12/6/2021 1905
BA47126	ERH2016	23	12/6/2021 2026
211206A-LCSD	Lab Control SpikeD	32	12/7/2021 0314

Comments: Batch: #TOCW5-211206A

WETLAB BLANK

APPL Inc. 908 North Temperance Avenue Clovis, CA 93611

Method	Analyte	Result	LOQ	LOD	DL	Units	Prep Date	Analysis Date	QC Group
SW846 90	TOTAL ORGANIC C	0.350 U	0.93	0.350	0.130	mg/L	12/06/21	12/06/21 #T	OCW5-211206A-BA47126

SW846 9060A

Form 4

LCS Summary

Lab Name: APPL, Inc.	SDG No: 98382
Case No: 98382	Date Analyzed: 12/6/2021
Matrix: WATER	Instrument: TICTOC
LCS ID: 211206A-LCS	Time Analyzed: 1824

APPL ID.	Client Sample No.	File ID.	Date Analyzed
211206A-LCS	Lab Control Spike	21	12/6/2021 1824
211206A-BLK	Blank	22	12/6/2021 1905
BA47126	ERH2016	23	12/6/2021 2026
211206A-LCSD	Lab Control SpikeD	32	12/7/2021 0314

Comments: Batch: #TOCW5-211206A

Laboratory Control Spike Recoveries <u>WETLAB</u>

APPL Inc. 908 North Temperance Avenue Clovis, CA 93611

Method	Compound Name	Spike Lvl	SPK Res	DUP Res	SPK %	DUP %	RPD	RPD	QC	Extract	Analysis	Extract	Analysis	QC Group
		mg/L	mg/L	mg/L	Recov	Recov		Max	Limits	Date-Spk	Date-Spk	Date-Dup	Date-Dup	1
SW846 90	TOTAL ORGANIC CARBO	5.00	5.31	5.11	106	102	3.8	20	80-120	12/06/21	12/06/21	12/07/21	12/07/21 #	#TOCW5-211206A-BA471

Comments:

INORGANIC ANALYSIS Calibration and Raw Data

Method: V Analyte: T Analyist: E	VetChem OC A		TOTAL ORGANIC CA Units mg/L QCG: 211206A Final Volume: 40mL	RBON		Instrument: Tic Toc
Date	Time	Appl ID	[TOC]	Raw	% Recovery	NPOC Calibration
11/27/2021	13:37	QC blank	0.00	872		300,000
11/27/2021	16:18	Ical 1	0.50	7728		250,000
11/27/2021	16:58	Ical 2	2.00	26223		200,000 - 00
11/27/2021	17:38	Ical 3	5.00	65575		8 150,000 - 8
11/27/2021	18:19	Ical 4	10.00	129337		² 100,000 -
11/27/2021	19:00	Ical 5	20.00	256854		50,000 - R ² = 0.9999861
11/27/2021	19:41	ICB	0.05	1142		0.0 5.0 10.0 15.0 20.0
11/27/2021	20:21	ICV	9.90	127224	99.0%	Conc. TOC

Date	Time	Appl ID	DF	Raw Result	SubSample Amount	Filter Blank Subtract	Calc Conc	Result	Range (mg/L)	QC True	% Recovery
2021-12-06	05:02 PM	CCB Prime	1	1448	40mL	0.000	0.074	0.07	0.09		
2021-12-06	05:43 PM	QCB	1	1067	40mL	0.000	0	0.00	0.00		
2021-12-06	06:24 PM	211206A CCV/LCS 1	1	69022	40mL	0.000	5.309	5.31	0.17	5.00	106.2%
2021-12-06	07:05 PM	211206A CCB/Blk 1	1	1166	40mL	0.000	0.011	0.01	0.04		
2021-12-06	08:26 PM	BA47126W01 53	1	57906	40mL	0.000	4.486	4.49	1.28		
2021-12-06	09:08 PM	BA47129W01 53	1	15406	40mL	0.000	1.165	1.17	0.44		
2021-12-06	09:50 PM	BA47128W05 53	1	97071	40mL	0.000	7.546	7.55	2.01		
2021-12-06	10:32 PM	BA47130W01 53	1	7307	40mL	0.000	0.532	0.53	0.63		
2021-12-06	11:12 PM	BA47134W05 53	1	101986	40mL	0.000	7.93	7.93	3.38		
2021-12-06	11:52 PM	BA47136W01 53	1	7182	40mL	0.000	0.523	0.52	1.22		
2021-12-07	12:32 AM	BA47132W05 53	1	30465	40mL	0.000	2.341	2.34	1.91		
2021-12-07	01:13 AM	BA47135W01 53	1	3603	40mL	0.000	0.242	0.24	0.46		
2021-12-07	01:53 AM	BA39118W03 TOC	1	57515	40mL	0.000	4.455	4.46	0.02		
2021-12-07	03:14 AM	211206A CCV/LCSD 2	1	66453	40mL	0.000	5.109	5.11	0.09	5.00	102.2%
2021-12-07	03:55 AM	211206A CCB 2	1	1213	40mL	0.000	0.017	0.02	0.06		
2021-12-07	04:36 AM	BA39119W03 TOC	1	66957	40mL	0.000	5.194	5.19	0.10		
2021-12-07	05:59 AM	BA39120W03 TOC	1	57767	40mL	0.000	4.475	4.48	0.18		
2021-12-07	07:20 AM	BA38690W03 TOC	1	16966	40mL	0.000	1.287	1.29	0.11		
2021-12-07	08:41 AM	BA39117W03 TOC	1	68643	40mL	0.000	5.325	5.33	0.11		
2021-12-07	10:08 AM	BA38683W03 TOC	1	39813	40mL	0.000	3.072	3.07	0.04		
2021-12-07	11:30 AM	211206A CCV 3	1	65847	40mL	0.000	5.061	5.06	0.01	5.00	101.2%
2021-12-07	12:11 PM	211206A CCB 3	1	1049	40mL	0.000	0.007	0.01	0.03		

	In	itial Standard	Information				Final Sta	andard Informati	on	
		Supplier P/N#		Lot # with QA #						
Name of Initial Standard		(or APPL Mix		(or reference to		Aliquot from	Final	Final Solvent + Lot#	Final Standard	
(from contianer Label)	Supplier	Name)	Conc.(range)	APPL prep date)	Exp Date	Stock	Volume	(or APPL Prep Date)	Conc (range)	
Total Organic Carbon								<u> </u>	, ž í	
(TOC) Standard Cal 1	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	20 uL	40 mL	DI Water	0.5 ppm	
Total Organic Carbon										
(TOC) Standard Cal 2	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	80 uL	40 mL	DI Water	2 ppm	
Total Organic Carbon										
(TOC) Standard Cal 3	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm	
Total Organic Carbon										
(TOC) Standard Cal 4	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	400 uL	40 mL	DI Water	10 ppm	
Total Organic Carbon										
(TOC) Standard Cal 5	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	800 uL	40 mL	DI Water	20 ppm	
Name of Final Standard Prep Date Exp Date	ICV (TOC) 11/27/2021 11/27/2022			-	Prep'd By (I	nitials)	EA			
	In		Final St	andard Informati	on					
	1	Supplier P/N#		Lot # with OA #						
Name of Initial Standard		(or APPI Mix		(or reference to		Aliquot from	Final	Final Solvent + Lot#	Final Standard	
(from contianer Label)	Supplier	Name)	Conc (range)	APPL prep date)	Exp Date	Stock	Volume	(or APPL Prep Date)	Conc (range)	
1000 PPM ICV TOC	Cappiloi	(tanto)	contrainge)	full 2 prop dato)	Exp Bato	Clock	· olamo		conc (range)	
Intermediate	APPL Inc.	IQC-106-5	1000 mg/L	0006465171-49409	6/30/2021	400 uL	40mL	DI Water	10 ppm	
ICV recertified against the non-expired calibration										
Name of Final Standard	CCV (TOC)				Prep'd By (I	nitials) EA				
Prep Date	See Data			-						
Exp Date	1 year		•							
Exp Buto	i yeai		•							
	In	itial Standard	Information				Final St	andard Informati	on	
	1	Supplier P/N#		Lot # with OA #						
Name of Initial Standard		(or APPI Mix		(or reference to		Aliquet from	Final	Final Solvent + Lot#	Final Standard	
(from contianer Label)	Supplier	Name)	Conc (range)	APPL prep date)	Exp Date	Stock	Volume	(or APPL Pren Date)	Conc (range)	
Total Organic Carbon	Cuppiici	Hamoy	Conto.(rungo)		Exp Date	Clock	Volumo		Cono (rango)	
(TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm	
Name of Final Standard	TOC LCS/L	CSD		_	Prep'd By (I	nitials)	EA			
Prep Date	See Data		•							
Exp Date	1 year									
	In	itial Standard	Information				Einal St	andard Informati	on	
	III	Supplier D/M#		Lot # with OA #			i indi Əli			
Name of Initial Standard		or APPL Mix		Cor reference to		Aliquet from	Final	Final Solvent + Let#	Final Standard	
(from continuor Labol)	Supplier		Cone (range)		Evo Doto	Stock	Volumo	(or APPL Prop Date)	Conc (rango)	
Total Organic Carbon	Supplier	ivallie)	Conc.(range)	A I L PIEP Vale)		SIUCK	volume	(OFAFFE FIEP Dale)	Conc (range)	
(TOC) Standard	Agilent	IOC-106-5	1000 mg/l	0006588597-51848	3/31/2022	200	40 ml	DI Water	5 ppm	
(100) Stanuaru	Aglient	100 100-0	1000 mg/L	000000000000000000000000000000000000000	3/01/2023	200 02	40 IIIL	Di Walci	5 ppm	

Name of Final Standard Prep Date Exp Date	TOC MS/MS See Data 1 year	SD		-	Prep'd By (I	nitials)	EA		
	In	itial Standard I	nformation				Final Sta	andard Informati	on
Name of Initial Standard (from contianer Label)	Supplier	Supplier P/N# (or APPL Mix Name)	Conc.(range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from Stock	Final Volume	Final Solvent + Lot# (or APPL Prep Date)	Final Standard Conc (range)
Total Organic Carbon (TOC) Standard	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	sample	5 ppm

Prep'd By (Initials)

EA

Name of Final StandardTOC Calibration CurvePrep Date11/27/2021Exp Date11/27/2022

Name of Initial Standard	Supplier	Supplier P/N# (or APPL Mix Name)	Conc (range)	Lot # with QA # (or reference to APPL prep date)	Exp Date	Aliquot from	Final	Final Solvent + Lot#	Final Standard
Total Organic Carbon (TOC) Standard	Agilent	IQC-1 06-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	5 ppm

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		Supplier P/N#		Lot # with QA #					
me of Initial Standard		(or APPL Mix		(or reference to		Aliquot from	Final	Final Solvent +	
om contianer Label)	Supplier	Name)	Conc.(range)	APPL prep date)	Exp Date	Stock	Volume	(or APPL Prep	
otal Organic Carbon									
(TOC) Standard	Agilent	IQC-106-5	1000 mg/L	0006588597-51848	3/31/2023	200 uL	40 mL	DI Water	