

The Sabine River Authority An Agency of the State of Texas www.sratx.org Environmental Services Division Water Quality Laboratory 1895 I-P Way Orange, TX 77632 (409) 746-3284 Fax: (409) 746-2249

# ANALYTICAL REPORT

Attn: Kyle Gillam Arlanxeo USA LLC P O BOX 2000 Orange TX 77631

*Order ID:* 202105403 *Project ID:* Special Project *Received Date:* 5/27/2021 10:35:00 AM *Customer PO:* 0100046607

The test results in this report meet all NELAP requirements related to SRA's NELAP accredited parameters unless noted otherwise. As of April 22, 2008, all reports and associated data will be retained by SRA for a minimum of five (5) years, unless prior written agreement is made with the client.

Due to the uncertainty of analytical measurements, the use of the measured values in this report for regulatory compliance must be evaluated by the client.

Results are related to the samples received. This report shall not be reproduced except in full without written approval of the SRA laboratory.

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NELAP Accredited #T104704266-21-18

Jolie Holtham

Reviewed and Released Pollie Holtham, Technical Director pholtham@sratx.org

Prepared For: Arlanxeo USA LLC

# Project Name: Lanxess Corporation

#### Receive Date: 5/27/2021 10:35:00 AM

Collector: ALAN MORPHIS

Sample #: 2	202105403-001	Collected:	5/27/2021		8:00	Site: 18	10007	
Customer: F	POTABLE WATER TAN	K	I	Matrix: Drinki	ng Water			
Test Sulfate		Method EPA 300.0 Rev. 2.1	Result <5.00	Units mg/L	RDL 5	Qualifier	Analys nakbari	sis Information 6/4/2021 9:54:00 AM
Residue, Tota	I Dissolved Solids	SM 2540C-97	1200	mg/L	20		cbarbore	5/27/2021 12:35:00 PM
Conductivity, 1	Femperature	SM 2510B-97	25.0000000	°C			kkahl	5/28/2021 10:35:00 AM
Conductivity		SM 2510B-97	1920	µmhos/cm	1		kkahl	5/28/2021 10:35:00 AM
Chloride		EPA 300.0 Rev. 2.1	616.0	mg/L	50	D	nakbari	6/7/2021 3:32:00 PM
Alkalinity, Tota	al	SM 2320B-97	144.0	mg/L	20		jclaybar	6/3/2021 10:52:00 AM
Alkalinity pH E	nd Point	SM 2320B-97	4.50	pH Units			jclaybar	6/3/2021 10:52:00 AM
Sample #: 2	202105403-002	Collected:	5/27/2021		8:00	Site: 18	10007	
Customer: F	POTABLE WATER TAN	к	I	Matrix: Drinki	ng Water			
Test Metals Digesti	on	Method EPA 200.2 Rev. 2.8	Result Complete	Units	RDL	Qualifier	Analys mguidry	sis Information 6/2/2021 12:45:00 PM
Manganese, T	otal	EPA 200.8 Rev 5.4	249	µg/L	2	D	mguidry	6/3/2021 11:32:00 AM
Hardness, Tot	al, Titrimetric	SM 2340C-97	132.0	mg/L as Ca	5		cbarbore	6/1/2021 9:54:00 AM
Sample #: 2	202105403-003	Collected:	5/27/2021		8:00	Site: 18	10007	
Customer: F	POTABLE WATER TAN	к	I	Matrix: Drinki	ng Water			
Test Subcontract		Method Subcontract	Result Attached	Units	RDL	Qualifier	Analys Eurofins	sis Information
Sample #: 2	202105403-004	Collected:	5/27/2021		8:05	Site: 18	10007	
Customer: 0	CAFETERIA		I	Matrix: Drinki	ng Water			
Test		Method	Result	Units	RDL	Qualifier	Analys	sis Information
Sulfate		EPA 300.0 Rev. 2.1	<5.00	mg/L	5		nakbari	6/4/2021 10:24:00 AM
Residue, Tota	I Dissolved Solids	SM 2540C-97	1190	mg/L	20		cbarbore	5/27/2021 12:35:00 PM
Conductivity, 7	Femperature	SM 2510B-97	24.900000	°C			kkahl	5/28/2021 10:35:00 AM
Conductivity		SM 2510B-97	1930	µmhos/cm	1		kkahl	5/28/2021 10:35:00 AM
Chloride		EPA 300.0 Rev. 2.1	619.0	mg/L	50	D	nakbari	6/7/2021 4:01:00 PM
Alkalinity, Tota	al	SM 2320B-97	145.0	mg/L	20		jclaybar	6/3/2021 10:52:00 AM

SM 2320B-97

4.50

Alkalinity pH End Point

6/3/2021 10:52:00 AM

jclaybar

pH Units

Prepared For: Arlanxeo USA LLC			Recei	ve Date:	5/27/2021 1	0:35:00 AM	I
Project Name: Lanxess Corporation			Collec	ctor:	ALAN MOR	PHIS	
Sample #: 202105403-005	Collected:	5/27/2021		8:05	Site: 18	10007	
Customer: CAFETERIA			Matrix: Drinki	ng Water			
Test	Method	Result	Units	RDL	Qualifier	Analys	sis Information
Metals Digestion	EPA 200.2 Rev. 2.8	Complete				mguidry	6/2/2021 12:45:00 PM
Manganese, Total	EPA 200.8 Rev 5.4	223	µg/L	2	D	mguidry	6/3/2021 11:37:00 AM
Hardness, Total, Titrimetric	SM 2340C-97	132.0	mg/L as Ca	5		cbarbore	6/1/2021 9:54:00 AM
Sample #: 202105403-006	Collected:	5/27/2021		8:05	Site: 18	10007	
Customer: CAFETERIA			Matrix: Drinki	ng Water			
Test	Method	Result	Units	RDL	Qualifier	Analys	sis Information
Subcontract	Subcontract	Attached				Eurofins	

Receive Date: 5/27/2021 10:35:00 AM

Collector: ALAN MORPHIS

# QUALITY CONTROL DATA: BLANKS

# Sample Number

# 202105403-001

Alkalinity, Total

QCType	QCBatchID	Result	Qualifier
Method Blank	LB048064	0.0	
Method Blank	LB048064	4.5	

# Chloride

QCType	QCBatchID	Result	Qualifier
ССВ	LB048104	<5.00	
CCB01	LB048104	<5.00	
CCB02	LB048104	<5.00	
Method Blank	LB048104	0.00	

### Conductivity, Lab

QCType	<b>QCBatchID</b>	Result	Qualifier
Method Blank	LB048013	0.887	
Method Blank	LB048013	24.9	

# Residue, Total Dissolved Solids

QCType	QCBatchID	Result	Qualifier
Method Blank	LB048003	-5.00	

Sulfate

QCType	QCBatchID	Result	Qualifier
ССВ	LB048097	<5.00	
CCB01	LB048097	<5.00	
CCB02	LB048097	<5.00	
Method Blank	LB048097	0.00	

# Sample Number 202105403-002

Hardness, Total, Titrimetric

QCType	<b>QCBatchID</b>	Result	Qualifier
Method Blank	LB048029	<5	

Prepared For: Arlanxeo USA LLC Project Name: Lanxess Corporation Receive Date: 5/27/2021 10:35:00 AM

# Collector: ALAN MORPHIS

Manganese, Total

QCType	QCBatchID	Result	Qualifier
ССВ	LB048057	<1	
CCB01	LB048057	<1	
CCB02	LB048057	<1	
CCB03	LB048057	<1	
CCB04	LB048057	<1	
CCB05	LB048057	<1	
CCB06	LB048057	<1	
Method Blank	LB048057	0.00	

# Sample Number

202105403-004

# Alkalinity, Total

QCType	QCBatchID	Result	Qualifier
Method Blank	LB048064	0.0	
Method Blank	LB048064	4.5	

# Chloride

QCType	QCBatchID	Result	Qualifier
ССВ	LB048104	<5.00	
CCB01	LB048104	<5.00	
CCB02	LB048104	<5.00	
Method Blank	LB048104	0.00	

# Conductivity, Lab

QCType	QCBatchID	Result	Qualifier
Method Blank	LB048013	0.887	
Method Blank	LB048013	24.9	

# Residue, Total Dissolved Solids

QCType	<b>QCBatchID</b>	Result	Qualifier
Method Blank	LB048003	-5.00	

# Sulfate

QCType	QCBatchID	Result	Qualifier
ССВ	LB048097	<5.00	
CCB01	LB048097	<5.00	

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Prepared For: Project Name:	Arlanxeo USA LLC Lanxess Corporation			Receive Date: Collector:	5/27/2021 10:35:00 AM ALAN MORPHIS
	CCB02	LB048097	<5.00		
	Method Blank	LB048097	0.00		

#### Sample Number 202105403-005

Hardness, Total, Titrimetric

QCType	QCBatchID	Result	Qualifier
Method Blank	LB048029	<5	

# Manganese, Total

QCType	<b>QCBatchID</b>	Result	Qualifier
ССВ	LB048057	<1	
CCB01	LB048057	<1	
CCB02	LB048057	<1	
CCB03	LB048057	<1	
CCB04	LB048057	<1	
CCB05	LB048057	<1	
CCB06	LB048057	<1	
Method Blank	LB048057	0.00	

# QUALITY CONTROL DATA: STANDARDS

SampleNumber 202105403-001							
Alkalinity	v, Total			QC Batch II	D: LB0480	)64	
	QCType	Result	SpikeAmount	Qualifier	<b>PercentRecovery</b>	LCL	UCL
	LCS	76.6	80		95.8	80.0	120.0
	LCS01	79.5	80		99.4		
	QCS INV#111663	31.6	33.8		93.5	90.5	108.0
	CheckStandard	19.1	20		95.5	70.0	130.0
Chloride				QC Batch II	D: LB0481	04	
	QCType	Result	SpikeAmount	Qualifier	<b>PercentRecovery</b>	LCL	UCL
	CheckStandard	4.78	5		95.6	70.0	130.0

QCType	Result	SpikeAmount	Qualifier	<b>PercentRecovery</b>	LCL	UCL
CheckStandard	4.78	5		95.6	70.0	130.0
ICV	19.5	20		97.5	90.0	110.0
CCV02	19.6	20		98.0	90.0	110.0

Prepared For: Project Name:	Arlanxeo USA LLC : Lanxess Corporation			R C	Receive Date: 5/27/2021 10:35:00 AM Collector: ALAN MORPHIS			
	CCV01	19.5	20		97.5	90.0	110.0	
	CCV	19.5	20		97.5	90.0	110.0	
	LCS	19.6	20		98.0	90.0	110.0	
Conducti	vitv. Lab			OC Batch I	D: LB0480	)13	110.0	
conducti	QCТуре	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL	
	LCS	10.2	10.08	<u> </u>	101.2	90.0	110.0	
	QCS INV#111672	257	265		97.0	95.1	106.0	
	Standard	99.7	100		99.7	90.0	110.0	
Residue,	Total Dissolved	Solids		QC Batch I	D: LB0480	003		
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL	
	LCS INV#111672	168	179		93.9	84.9	110.0	
Sulfate				QC Batch I	D: LB0480	097		
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL	
	CCV01	18.8	20		94.0	90.0	110.0	
	ICV	18.7	20		93.5	90.0	110.0	
	LCS	18.6	20		93.0	90.0	110.0	
	CCV02	18.8	20		94.0	90.0	110.0	
	CCV	18.7	20		93.5	90.0	110.0	
	CheckStandard	5.17	5		103.4	70.0	130.0	
SampleNu	ımber	2021054	03-002					
Hardness	s, Total, Titrimet	tric		QC Batch I	D: LB0480	)29		
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL	
	LCS	20	20		100.0	100.0	100.0	
	QCS INV#111317	330	330		100.0			
	Standard	100	100		100.0	80.0	120.0	
Mangane	ese, Total			QC Batch I	D: LB0480	)57		
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL	
	CCV01	100	100		100.0	85.0	115.0	
	CheckStandard	1.04	1		104.0	70.0	130.0	
	CCV06	103	100		103.0	85.0	115.0	
	CCV05	105	100		105.0	85.0	115.0	
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Prepared For: Project Name:	Arlanxeo USA LLC Lanxess Corporatio	; on		R	eceive Date: 5/27/20 ollector: ALAN M	21 10:35:0 IORPHIS	00 AM
	CCV04	102	100		102.0	85.0	115.0
	CCV02	103	100		103.0	85.0	115.0
	ICV	103	100		103.0	90.0	110.0
	CCV	102	100		102.0	85.0	115.0
	LCS	104	100		104.0	85.0	115.0
	CCV03	104	100		104.0	85.0	115.0
SampleNu	ımber	202105	403-004				
Alkalinity	v, Total			QC Batch I	D: LB0480	064	
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL
	LCS	76.6	80		95.8	80.0	120.0
	LCS01	79.5	80		99.4		
	QCS INV#111663	31.6	33.8		93.5	90.5	108.0
	CheckStandard	19.1	20		95.5	70.0	130.0
Chloride	Chloride			QC Batch I	<i>ID:</i> LB048104		
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL
	CheckStandard	4.78	5		95.6	70.0	130.0
	ICV	19.5	20		97.5	90.0	110.0
	CCV02	19.6	20		98.0	90.0	110.0
	CCV01	19.5	20		97.5	90.0	110.0
	CCV	19.5	20		97.5	90.0	110.0
	LCS	19.6	20		98.0	90.0	110.0
Conducti	vity, Lab			QC Batch I	D: LB0480	013	
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL
	LCS	10.2	10.08		101.2	90.0	110.0
	QCS INV#111672	257	265		97.0	95.1	106.0
	Standard	99.7	100		99.7	90.0	110.0
Residue,	Total Dissolved	Solids		QC Batch I	D: LB0480	003	
	QCType	Result	SpikeAmount	Qualifier	PercentRecovery	LCL	UCL
	LCS INV#111672	168	179		93.9	84.9	110.0
Sulfate				QC Batch I	D: LB0480	097	
	OCT						

Prepared For: Arlanxeo USA LLC				Receive Date:	5/27/2021 10:35:00 AM		
Project Name:	Lanxess Corporation			Collector:	ALAN MORPHIS		
	CCV01	18.8	20	94.0	90.0	110.0	
	LCS	18.6	20	93.0	90.0	110.0	
	ICV	18.7	20	93.5	90.0	110.0	
	CCV	18.7	20	93.5	90.0	110.0	
	CCV02	18.8	20	94.0	90.0	110.0	
	CheckStandard	5.17	5	103.4	70.0	130.0	

# SampleNumber

202105403-005

Hardness	s, Total, Titrime	tric		QC Batch II	D: LB0480	)29	
	QCType	Result	SpikeAmount	Qualifier	<b>PercentRecovery</b>	LCL	UCL
	LCS	20	20		100.0	100.0	100.0
	QCS INV#111317	330	330		100.0		
	Standard	100	100		100.0	80.0	120.0
Mangane	ese, Total			QC Batch II	D: LB0480	)57	
	QCType	Result	SpikeAmount	Qualifier	<b>PercentRecovery</b>	LCL	UCL
	CCV01	100	100		100.0	85.0	115.0
	ICV	103	100		103.0	90.0	110.0
	CheckStandard	1.04	1		104.0	70.0	130.0
	CCV06	103	100		103.0	85.0	115.0
	CCV05	105	100		105.0	85.0	115.0
	CCV04	102	100		102.0	85.0	115.0
	CCV02	103	100		103.0	85.0	115.0
	CCV	102	100		102.0	85.0	115.0
	LCS	104	100		104.0	85.0	115.0

# QUALITY CONTROL DATA: SPIKES

104

Alkalinity, Total QC Batch ID: LB048064	Sample N	umber	20210540	)3-001					
	Alkalinity	, Total			QC Ba	atch ID:	LB(	)48064	
QCType QCSamples Result Qualifier % Recovery RPD LCL UCL RPD C	QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL

100

CCV03

104.0

85.0

115.0

Prepared For:	Arlanxeo USA LLC			Receive Date:	5/27/2021 10:35:00 AM	
Project Name:	Lanxess Corporation			Collector:	ALAN MORPHIS	
LCSD01						
Replicate	202105029-002					
Replicate01	202106080-019					
LCSD		77.2	96.5	0.8		7.3
LCSD01		78.5	98.1	1.3		
Replicate	202105029-002	<20		0.0		20.0
Replicate01	202106080-019	164		7.6		

LCSD

Chloride				QC Batch ID:		LB048104		
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
LFMD01	202106001-001	23.9		97.0	0.8			20.0
LCSD		19.6		98.0	0.0			20.0
LFM	202106061-001	13.9		94.1		80.0	120.0	
LFM01	202106001-001	23.7		95.0		80.0	120.0	
LFMD	202106061-001	13.9		94.1	0.0			20.0
Conducti	ivity, Lab			QC Batch ID:		<i>C Batch ID:</i> LB048013		
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
Replicate	202105367-001	323			0.6			1.4
Replicate	202105367-001	24.9			0.4			
Residue,	Total Dissolved	Solids		QC Be	atch ID:	LB(	)48003	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
Replicate	202105359-001	477			1.5			7.0
Sulfate				QC Ba	atch ID:	LB(	)48097	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
LFMD	202106025-001	11.4		81.9	0.9			20.0
LFMD01	202106060-003	11.3		80.9	0.0			20.0

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Prepared For: Project Name:	Arlanxeo USA LLC Lanxess Corporation		Receive Date: Collector:	5/27/2021 10:35:00 AM ALAN MORPHIS			
LFM	202106025-001	11.3	80.9		80.0	120.0	
LCSD		18.6	93.0	0.0			20.0
LFM01	202106060-003	11.3	80.9		80.0	120.0	

Sample Number **202105403-002** 

Hardnes	s, Total, Titrime	QC Ba	LBO					
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
Replicate	202105029-006	16			0.0			13.6
MS	202105029-006	116		100.0		80.0	120.0	
LCSD		20		100.0	0.0			0.0
Mangan	ese, Total			QC Ba	atch ID:	LB(	)48057	

				-				
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL
LFM	202106080-002	273		104.0		70.0	130.0	
LFMD	202106080-002	282		113.0	8.3			20.0

Sample Number 202105403-004

Alkalinity, Total				QC Batch ID:		LB048064			
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CL	
Replicate	202105029-002	<20			0.0			20.0	
LCSD01		78.5		98.1	1.3				
Replicate01	202106080-019	164			7.6				
Replicate01	202106080-019								
Replicate	202105029-002								
LCSD01									
LCSD									
LCSD		77.2		96.5	0.8			7.3	

repared For:	Arlanxeo USA LLC			F	Receive Date	: 5/27/20	21 10:35:0	0 AM
Project Name:	Lanxess Corporation			C	Collector:	ALAN N	IORPHIS	
Chloride				QC Be	atch ID:	LBO	)48104	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CI
LFM	202106061-001	13.9		94.1		80.0	120.0	
LFM01	202106001-001	23.7		95.0		80.0	120.0	
LFMD	202106061-001	13.9		94.1	0.0			20.0
LCSD		19.6		98.0	0.0			20.0
LFMD01	202106001-001	23.9		97.0	0.8			20.0
Conducti	ivity, Lab			QC Be	atch ID:	LBO	048013	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CI
Replicate	202105367-001	323			0.6			1.4
Replicate	202105367-001	24.9			0.4			
Residue,	Total Dissolved	Solids		QC Be	atch ID:	LBO	)48003	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CI
Replicate	202105359-001	477			1.5			7.0
Sulfate				QC Be	atch ID:	LBO	)48097	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CI
LFMD	202106025-001	11.4		81.9	0.9			20.0
LFMD01	202106060-003	11.3		80.9	0.0			20.0
LFM	202106025-001	11.3		80.9		80.0	120.0	
LCSD		18.6		93.0	0.0			20.0
LFM01	202106060-003	11.3		80.9		80.0	120.0	
Sample N	Number 2	2021054(	)3-005					
Hardness	s, Total, Titrime	tric		QC Be	atch ID:	LB(	)48029	
QCType	QCSamples	Result	Qualifier	% Recovery	RPD	LCL	UCL	RPD CI
LCSD		20		100.0	0.0			0.0
MS	202105029-006	116		100.0		80.0	120.0	

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MS

202105029-006

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# DATA QUALIFIERS

### REPORT COMMENTS

1) All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

2) Reporting limits are adjusted for sample size and dilutions.

3) According to 40 CFR Parts 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field, (e.g. pH Field) they were not analyzed immediately, but as soon as possible when received by the laboratory.

А	Possible matrix interference present in sample.
A1	Spike recovery outside of established control limits, indicating a possible matrix interference. Method performance is demonstrated by acceptable LCS recoveries.
В	Sample value reported below RDL for spike (LFM) calculation.
B1	Target analyte was found in the method blank.
С	Poor RPD values observed due to the non-homogenous nature of the sample.
D	Sample reported from a dilution.
D1	Spike diluted.
D2	Due to the nature of matrix interferences, sample was diluted prior to analysis.
D3	50mL dilution was performed on sample prior to analysis.
Е	The reported concentration exceeds the instrument calibration.
F	Out of control QA/QC not associated with this sample.
F1	Continuing Calibration verification (CCV) standard is not associated with the samples reported.
G	Marginal outlier within 1% of acceptance criteria.
Н	Analysis was performed in duplicate to validate result.
Ι	Sample was filtered prior to analysis.
J	No volume filtered yielded an ideal plate count of 20-60 fecal coliform colonies per membrane.

Prepared For: Project Name:	Arlanxeo USA LLC	Receive Date:	5/27/2021 10:35:00 AM							
К	Out of control QC does not affect the quality	of reported results.								
L	BOD/CBOD LCS value is not within method sample cannot be reanalyzed.	3OD/CBOD LCS value is not within method acceptance criteria. Due to the nature of the test method, sample cannot be reanalyzed.								
L1	BOD result calculated as > due to final DO r	OD result calculated as > due to final DO readings for all dilutions used being <1.0 mg/L.								
L2	BOD result calculated as < due to none of th	e dilutions used meeting the required	depletion of 2.0 mg/L.							
L3	BOD/CBOD dilution water blanks had a dep	bletion $> 0.2$ mg/L.								
L4	BOD/CBOD seed correction is not within m method, the sample cannot be reanalyzed.	ethod acceptance criteria. Due to the	nature of the test							
L5	BOD method blank was greater than 2, samp	ble results my be biased slightly high								
L6	% deviation between Winkler titration DO v test method, the sample cannot be reanalyzed	alues and meter values was >1.25%. d.	Due to the nature of the							
L7	Sample result may be affected by potential to and the results from the highest and lowest d	oxicity. BOD results increased as san illution differed by more than 30%.	nple dilutions increased							
М	LCS analysis yielded high recoveries, indica	ting a potential high bias.								
M1	RDL check standard had a high recovery. R	esult may be biased high.								
Ν	Laboratory not NELAC accredited for analyt	te.								
N1	No NELAC Accredition currently available	for this analyte.								
N2	Analyte approved under the TCEQ Drinking	Water Laboratory program.								
0	Sample required dilution due to matrix inter	ference.								
Р	Insufficient sample volume to perform chlori	ine check prior to analysis.								
Q	Equipment temperature fell outside of the re- incubation/storage of this sample. It is not k	quired temperature range at some poi nown if this deviation affected samp	nt during le results.							
Q1	An equipment temperature reading was not on this sample. Temperature readings before ar	documented at some point during the nd after were within range.	incubation/storage of							
R	RPD value is outside method acceptance crit	teria.								
S	Sample received in an unverified/inappropria meet data quality standards.	ate container not supplied by the labo	pratory and may not							
S1	Sample received in container inappropriate f	for analysis.								
S2	Sample received without preservation and w	as preserved at the lab upon receipt.								
Т	Analysis conducted outside of the required h	olding time based on client request.								
T1	Analysis was conducted outside of the require	red 15 minute holding time.								
U	Sample was filtered upon receipt at lab, more	e than 15 minutes after collections.								
V	Analyte was detected in both the sample and	the associated method blank								
W	The LFM/LFMD recoveries are outside QC a than the amount found in the sample.	acceptance criteria because the spike	amount is much less							

Prepared For:	Arlanxeo USA LLC	Receive Date:	5/27/2021 10:35:00 AM
Project Name:	Lanxess Corporation	Collector:	ALAN MORPHIS
X Y	QCS/LCS failed to meet provider's acceptance criteria. I	Data accepted based on o	ther QC.

Z See case narrative.

Prepared For: Arlanxeo USA LLC

Project Name: Lanxess Corporation

Receive Date: 5/27/2021 10:35:00 AM

Collector: ALAN MORPHIS

### SAMPLE CONDITION RECORD

Is there sufficient air space in bottle for bacteriological analysis?	N/A
Is the volume of sample submitted sufficient for the requested test(s)?	Yes
Were all samples within the holding time for the requested test(s)?	Yes
Were samples received cold?	Yes
Were samples received on ice?	Yes
Were samples received with applicable perservative?	Yes
Are bottle caps tight and securely in place?	Yes
Are the number of samples the same as stated on the chain of custody?	Yes
Are samples submitted with a correct and complete chain of custody?	Yes

# Environment Testing America

# **ANALYTICAL REPORT**

Eurofins Xenco, Stafford 4147 Greenbriar Dr Stafford, TX 77477 Tel: (281)240-4200

# Laboratory Job ID: 860-5112-1

Client Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis Rt

# For:

LINKS

Review your project results through

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The

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Visit us at:

Expert

Sabine River Authority 1895 Owens-Illinois Road Orange, Texas 77632

Attn: Ms. Pollie Holtham

C. Lance Tigre

Authorized for release by: 6/8/2021 11:03:27 AM

C. Lance Tigrett, Project Manager II (713)690-4444

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

Page 17 of 34

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# **Definitions/Glossary**

# Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

# Qualifiers

Metal	S
Qualifi	e

4

Е

ualifier	Qualifier Description
	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not
	applicable.
	Result exceeded calibration range.

# Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
¤	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

3

# Job ID: 860-5112-1

### Laboratory: Eurofins Xenco, Stafford

#### Narrative

Job Narrative 860-5112-1

**Case Narrative** 

#### Receipt

The samples were received on 6/2/2021 2:30 PM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.8°C

#### Metals

Method 200.7: Due to the high concentration of Sodium the matrix spike (MS) for preparation batch 860-9902 and analytical batch 860-10223 could not be evaluated for accuracy and precision. The associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) met acceptance criteria.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

# **Detection Summary**

# Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

# Client Sample ID: PBCU001

Client Sample ID: PBCU001						Lab	S	ample ID: 8	860-5112-1
Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	37		0.20	0.029	mg/L	1	_	200.7 Rev 4.4	Total
									Recoverable
Iron	1.3		0.20	0.028	mg/L	1		200.7 Rev 4.4	Total
									Recoverable
Sodium	430		25	3.3	mg/L	50		200.7 Rev 4.4	Total
									Recoverable

# **Client Sample ID: DS01**

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D Method	Prep Type
Calcium	37		0.20	0.029	mg/L	1	200.7 Rev 4.4	Total
Iron	1.1		0.20	0.028	mg/L	1	200.7 Rev 4.4	Recoverable Total
Sodium	420		25	3.3	mg/L	50	200.7 Rev 4.4	Recoverable Total Recoverable

Lab Sample ID: 860-5112-2

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# **Client Sample Results**

Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

# **Client Sample ID: PBCU001** Date Collected: 05/27/21 08:00 Date Received: 06/02/21 14:30

Analyte	Result Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fa
Calcium	37	0.20	0.029	mg/L		06/03/21 15:12	06/04/21 23:38	
Iron	1.3	0.20	0.028	mg/L		06/03/21 15:12	06/04/21 23:38	
Sodium	430	25	3.3	mg/L		06/03/21 15:12	06/04/21 23:56	5

#### nent Sample ID: DS01 Date Collected: 05/27/21 08:05

Date Received: 06/02/21 14:30

Method: 200.7 Rev 4.4 -	Metals (ICP) - Tot	al Recovera	ıble						
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	37		0.20	0.029	mg/L		06/03/21 15:12	06/04/21 23:45	1
Iron	1.1		0.20	0.028	mg/L		06/03/21 15:12	06/04/21 23:45	1
Sodium	420		25	3.3	mg/L		06/03/21 15:12	06/05/21 00:00	50

Job ID: 860-5112-1

Matrix: Water

Lab Sample ID: 860-5112-1

# **QC Sample Results**

### Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

# Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-9902/1-A Matrix: Water Analysis Batch: 10223									Cli	ent Samp Prep Type	ole ID: Me e: Total F Prep	ethod Recove Batch:	Blank erable : 9902
	MB	MB											
Analyte	Result	Qualifier		RL	I	MDL	Unit		D F	Prepared	Analyz	ed	Dil Fac
Calcium	<0.029			0.20	0	.029	mg/L		06/0	03/21 15:12	06/04/21 2	22:58	1
Iron	<0.028			0.20	0	.028	mg/L		06/0	03/21 15:12	06/04/21 2	22:58	1
Sodium	<0.067			0.50	0	.067	mg/L		06/0	03/21 15:12	06/04/21 2	22:58	1
Lab Sample ID: LCS 860-9902/2-A								Cli	ent Sa	mple ID:	Lab Con	trol Sa	ample
Matrix: Water									1	Prep Type	e: Total F	Recove	erable
Analysis Batch: 10223											Prep	Batch	9902
			Spike		LCS	LCS	;				%Rec.		
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits		
Calcium			25.0		26.0			mg/L		104	85 - 115		
Iron			5.00		5.11			mg/L		102	85 - 115		
Sodium			25.0		26.0			mg/L		104	85 - 115		
Lab Sample ID: LCSD 860-9902/3-	A						C	lient S	ample	ID: Lab	Control S	Sample	e Dup
Matrix: Water									I	Prep Type	e: Total F	Recove	erable
Analysis Batch: 10223											Prep	Batch	9902
			Spike		LCSD	LCS	D				%Rec.		RPD
Analyte			Added		Result	Qua	lifier	Unit	D	%Rec	Limits	RPD	Limit
Calcium			25.0	-	26.0			mg/L		104	85 - 115	0	20
Iron			5.00		5.10			mg/L		102	85 - 115	0	20
Sodium			25.0		26.0			mg/L		104	85 - 115	0	20

### Lab Sample ID: 860-5112-1 MS Matrix: Water

Analysis Batch: 10223									Prep	Batch: 9902
	Sample	Sample	Spike	MS	MS				%Rec.	
Analyte	Result	Qualifier	Added	Result	Qualifier	Unit	D	%Rec	Limits	
Calcium	37		25.0	60.0		mg/L		92	70 - 130	
Iron	1.3		5.00	6.18		mg/L		97	70 - 130	
Sodium	390	E	25.0	399	E 4	mg/L		41	70 - 130	

# Eurofins Xenco, Stafford

Client Sample ID: PBCU001

**Prep Type: Total Recoverable** 

# **QC Association Summary**

# Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

Job ID: 860-5112-1

5

# Metals

# Prep Batch: 9902

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-5112-1	PBCU001	Total Recoverable	Water	200.7	
860-5112-2	DS01	Total Recoverable	Water	200.7	
MB 860-9902/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-9902/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-9902/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	
860-5112-1 MS	PBCU001	Total Recoverable	Water	200.7	
Analysis Batch: 1022	3				
Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-5112-1	PBCU001	Total Recoverable	Water	200.7 Rev 4.4	9902
860-5112-1	PBCU001	Total Recoverable	Water	200.7 Rev 4.4	9902
860-5112-2	DS01	Total Recoverable	Water	200.7 Rev 4.4	9902
860-5112-2	DS01	Total Recoverable	Water	200.7 Rev 4.4	9902
MB 860-9902/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	9902
LCS 860-9902/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	9902
LCSD 860-9902/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	9902
860-5112-1 MS	PBCU001	Total Recoverable	Water	200.7 Rev 4.4	9902

# Lab Chronicle

Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R Job ID: 860-5112-1

**Matrix: Water** 

Matrix: Water

Lab Sample ID: 860-5112-1

Lab Sample ID: 860-5112-2

# Client Sample ID: PBCU001 Date Collected: 05/27/21 08:00 Date Received: 06/02/21 14:30

<b>Prep Type</b> Total Recoverable Total Recoverable	Batch Type Prep Analysis	Batch Method 200.7 200.7 Rev 4.4	Run	Dil Factor	Initial Amount 50 mL	Final Amount 50 mL	Batch Number 9902 10223	Prepared or Analyzed 06/03/21 15:12 06/04/21 23:38	Analyst VD DP	Lab XEN STF XEN STF
Total Recoverable Total Recoverable	Prep Analysis	200.7 200.7 Rev 4.4		50	50 mL	50 mL	9902 10223	06/03/21 15:12 06/04/21 23:56	VD DP	XEN STF XEN STF

# Client Sample ID: DS01 Date Collected: 05/27/21 08:05 Date Received: 06/02/21 14:30

	Batch	Batch		Dil	Initial	Final	Batch	Prepared		
Prep Type	Туре	Method	Run	Factor	Amount	Amount	Number	or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	9902	06/03/21 15:12	VD	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1			10223	06/04/21 23:45	DP	XEN STF
Total Recoverable Total Recoverable	Prep Analysis	200.7 200.7 Rev 4.4		50	50 mL	50 mL	9902 10223	06/03/21 15:12 06/05/21 00:00	VD DP	XEN STF XEN STF

#### Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Xenco, Stafford

# Accreditation/Certification Summary

Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

# Laboratory: Eurofins Xenco, Stafford

All accreditations/certifications held by this laboratory are listed. Not all accreditations/certifications are applicable to this report.

Authority	Program	Identification Number	Expiration Date
Arkansas DEQ	State	20-025-0	08-04-21
Florida	NELAP	E871002	06-30-21
Louisiana	NELAP	03054	06-30-21
North Carolina (WW/SW)	State	681	12-31-21
Oklahoma	State	1306	08-31-21
Texas	NELAP	T104704215-21-41	06-30-21

Job ID: 860-5112-1

Eurofins Xenco, Stafford

# **Method Summary**

# Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

Job ID: 860-5112-1

Method	Method Description	Protocol	Laboratory
200.7 Rev 4.4	Metals (ICP)	EPA	XEN STF
200.7	Preparation, Total Recoverable Metals	EPA	XEN STF

EPA = US Environmental Protection Agency

#### Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4147 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200

Eurofins Xenco, Stafford

Sample Summary

Client: Sabine River Authority Project/Site: PWS\_1810007\_AC\_20210527 DWQP Analysis R

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
860-5112-1	PBCU001	Water	05/27/21 08:00	06/02/21 14:30	
860-5112-2	DS01	Water	05/27/21 08:05	06/02/21 14:30	

				ч	ain (	of CL	istoc	ľ√ R	eco	гd						
									<b>P</b> ~-	emp: 🎖	<b>J</b> IR I	лон·а	-272	-	euronns En	onment es
										F+0.1	Temn'	0	<u>х</u>		4	erica
	Regul	atory Pro	gram.		NPDES			Other-		nainaulo		8	<b>`</b>		TestAmerica Lab	oratories, Inc.
Client Contact	Project M	anager <sup>.</sup>				ite Con	tact:			Picl	cup Dat	e: 6/2/2	021	<u> </u>	COC No:	
Sabine River Authority of Texas	Tel/Fax.				1	ab Con	act: Po	lie Hol	tham	Can	rier				of	cocs
1895 I-P Way	`	vnalysis Tu	irnaround	Time											Sampler <sup>.</sup>	
Orange, TX 77632		DAR DAYS	- WOR	KING DAYS		i									For Lab Use Only-	
409-746-3284	TA	T if different fr	om Below			( <u>N</u>									Walk-in Client:	
409-746-2249	D	2	weeks			/ \	(Z)	(2							Lab Sampling	
Project Name: ARLANXEO WQP		+-1	week			.) c	2) 500	.002								
Site		2	days		/	ISM	.00. boi	; po							Job / SDG No	
#0d		н	day			1/5	dieth Aeth	u19								
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp. G=Grab)	Matrix	Cont.	Perform M	nuiols)) Iron (Meth	M) muibo2						P	Sample Sneci	ic Notes
2021005403-003	5/27/2021	8:00 AM	Grab	MD	-		××									
2021005403-006	5/27/2021	8:05 AM	Grab	Ma	-		×	×					 			
									-		_					
Pa								-	+			-				
								╀	+		-	+				
						_										
} <b>⊖</b> Í																
860-5112 Chain of Custody									<u> </u>							
					T	-		—	╞		-	+		+		
									╉			+-		-		
Preservation Used: 1= Ice, 2= HCI; 3= H2SO4; 4=HNO3; 5=	=NaOH; 6=	Other														
Possible Hazard Identification Are any samples from a listed EPA Hazardous Waste? Please   Comments Section if the lab is to dispose of the sample.	List any EF	A Waste C	odes for th	e sample	in the	Samp	e Dispo	sal (A	fee m	ly be ass	essed	if samp	les are r	etained	longer than 1 mon	( <b>4</b>
Non-Hazard     Indexed     Skin Imitant	Poison	4		um		Ē	Return to (	lient		Uisoosa	del vd l		Archiv	e for	Months	
Special Instructions/QC Requirements & Comments																
Custody Seals Intact:	Custody S	eal No					о С	ler Ten	(0°) qr	· Obs'd.		Col	ď.		Therm ID No.	
Relinquished by:	Company.	524 6	12/21	Date/Tin	P C D	Receiv	ied by				Con	npany'			Date/Time:	9%0
Belinquished by:	Company <sup>-</sup>		1. 2L	Date/U	8 20 20	Recei	jed by	R	Ŕ		ő	npany:	J J		Perips 101	Vch1
Belinquished by:	Company <sup>-</sup>	4	) )	Date/Tin		Receiv	ed in Le	(bonator	λ pλ	Ň	Co	npany <sup>-</sup>	/		Date/Time	}
21					ſ		P						Form No	-CA-C-	WI-002, Rev 4.17, c	ated 4/27/2018

	Completed by Laboratory	Eurofins Xenco, LLC	T104704215	4147 Greenbriar Dr	a StallOld, 1X / / 4/ /	Tanya Harrington	281-240-4200			Parameters Requested: Analyses are required for the parameters	<ul> <li>cnecked. * Jr initiations containing prosphate or suited are used, then these parameters should also be analyzed depending on which is in</li> </ul>	use.	(71)	D-Prosphate (1049) *		x			Sample Conditions Upon Receipt (V) Samples received unpreserved? Iced Ambient	Rejection Code (if applicable): Actual Corrected 2.7 / 2.5	Date & Time of Sample Preservation (Acidified). Thermometer ID #: [1, 1, 1, 2,	Laboratory Comments:			2 3 4 5 9
AL QUALITY		Laboratory Name	TCEQ Lab ID #		Laboratory Address	Laboratory Contact		Laboratory Contact Phon #			AL.	the field within 15 minutes of sample		Original Original Sample Sample Dat					ion Guidance for Water Quality ater samples is a crime punishable	Date		Date/Time:			1 2 3
MISSION ON ENVIRONMENT							alcium carbonate				rd Party Contractor> LAB ID	<pre>fere temperature and pH measured in t bilection?</pre>	Field Measurements	oH H H H H H H H H H H H H H H H H H H	7 27 25 7	7.13 24 4			TCEQ Monitoring and Sample Collect ation of this form or tampering with w	zation		By Courier (Signature)	Lab (Signature)		
TEXAS COM	PWS (or Agent)	F**						r Dosage Rate:	Information	compliance	edited Lab	ling entity's V	ple Collection	Time - 24 hr MMM)	21 0800	21 0805			ollow the instructions in the ely upon collection. Falsific	Organi		Relinquished	1420 Received By /21		
	Completed by	UGINAL WQPM					Silic	Inhibito	Sample	-LION	System Accn	and pH included on the samp wai Form on file at the TCEQ	Sam		/ater Tank 0527	0527			sites selected for sampling fi 1 and temperature Immediab 37.101	ture		Date/Time:	Date/Time:	•	
		**REFER TO OF					1 (v): Phosphate	Alkalinity Dosage Pate:		، (v): Compliance	r (v): Public Water 3	r N): Are temperature Laboratory Appro		Sample Locati	intry Point) Potable M	afeteria			form is true and correct and at to the measurement of ph Penal Code. Title 8. Chapter	tive (Print) Signat			Y		
		PWS Name: *	:#0I SMd	WS Address:	WS Contact:	act Phone #:	or or Stablizer Used	CEATMENT		Sample Type	Sample Collector	erature and pH (Y or	-	Sample Point ID (e.g. DSTWQP EWQP)	EWQP (E	DSTWQP C			at information on this f includes, but not limite or federal law. (Texas	ized PWS Represent:		idy Signature)	 ier (Signature)		)
	۲ <u>۱</u>				344	PWS Cont	Inhibit	TR				Temp		Facility ID (e.g. DS01, PBCU001)	PBCU001	DS01			I acknowledge th Parameters. This under state and/o	Name of Author		Chain of Custo Relinquished By (	Received By Cour	1 ref 20012 fver	

	Completed by Laboratory	Y Name: Sabine River Authority	ео гаюто ж 48115	1895 I-P Way	Address: Orange, Texas	Pollie Holtham		ct Phone 409-746-3284		Parameters Requested. Analyses are required for the parameters	these parameters should also be analyzed depending on which is in	s of sample	5} 	Here and the second sec	nple Date MDDVY) Lab Sample ID	202105403 VVVVVVVVV	2002403 222 222 222				Quality Sample Conditions Upon Beceipt (v) punishable V Samples received unpreserved? Ced Ambient	Rejection Code (if applicable): Actual / Corrected // 7/// 2. C	Date & Time of Sample Preservation (Acidited). $S(3y/2)_{21}$  2. 2.0 Thermometer ID #: (0	stime: 3s Laboratory Comments: OCD + OC5 >1 turb & ty	10:35 Billed thros Sign 37724 in lat to 003, 003, 003, 0006 pt
ON ENVIRONMENTAL QUALITY AETER MONITORING FORM 20679		Laborator	Ţ		Laboratory /	Laboratory	rbonate	Laboratory Conta			ntractor> LAB ID AL	ture and pH measured in the field within 15 minutes	isurements R	lacement	Temp (°C) 보증 Original Sample San	25.7	a4 4	Loc. 860	5112		toring and Sample Collection Guidance for Water C form or tampering with water samples is a crime (	Date	NNXEO  s <sup>-la-1</sup> ,2	Signature)	$\frac{1}{S/27/21}$
TEXAS COMMISSION WATER QUALITY PARAN	ted by PWS (or Agent)			06			Silica Calcium ca	nhibitor Dosage Rate:	ample Information	Non-compliance	Accredited Lab 3rd Party Co	he sampling entity's Y Were temperater TCEQ?	Sample Collection Field Mea		Date Time - 24 hr MMDDYY) (HHMM) pH	7.X7 09:00 7.X7	13/21 08.05 2,13				mpling follow the instructions in the TCEQ Mon Inmediately upon collection. Falsification of this	, Organization	cum/ul ARLA	a/Time: Occo Relinquished By Courier (	
	Comple	Irange Plant	< 1810007	647 Farm Road 10	lan Morphis	09-882-2715	1 (小: Phosphate	Alkalinity Dosage Rate:	ŝ	e (۱): X Compliance	r (v): X Public Water System	r N): X Are temperature and pH included on the location of the laboratory Approval Form on file at the laboratory Approval Form on the set the laboratory approval Form on the laboratory form on the laboratory approval Form on the laboratory approval Form on the laboratory form on the laboratory approval Form on the laboratory form on the laborator			Sample Location (	ntry Point) Potable Water Tank	Cafeteria				form is true and correct and sites selected for sar ed to the measurement of pH and temperature in Penal Code. Title 8. Chaoter 37.10)	ative (Print)  Signature	de) Clustm	Contraction of the second seco	for X
CWB		PWS Name:	KT #01 SW9	PWS Address:	PWS Contact:	PWS Contact Phone #	Inhibitor or Stablizer Used	TREATMENT		Sample Type	Sample Collector	Temperature and pH (Y o		Facility ID (e.g.	PBCU001) EWOP)	PBCU001 EWQP (E	DS01 DSTWQP				L acknowledge that Information on this I Parameters. This includes, but not limite Junder state and/or federal law. (Texas	Name of Authorized PWS Represents	Clint MANSh	Relinquished By Jangataria	Received By Edurier (Signature) ACM TCEQ 20075 (Rev. 01/2018)

# Login Sample Receipt Checklist

Client: Sabine River Authority

#### Login Number: 5112 List Number: 1 Creator: Rubio, Yuri

Question	Answer	Comment
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	

List Source: Eurofins Xenco, Stafford

Job Number: 860-5112-1

#### Client: Sabine River Authority

#### Login Number: 5112 List Number: 2 Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is = background as measured by a survey meter.</td <td>N/A</td> <td>Lab does not accept radioactive samples.</td>	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	2.8
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	Check done at department level as required.

Job Number: 860-5112-1

List Source: Eurofins Xenco, Stafford

Received By Courie	Relinquished By (B)	() liwit	Name of Authoriz	under state and/or	I acknowledge that					DS01	PBCU001	Facility ID (e.g. DS01, PBCU001)		Tempe				TRE	Inhibito	PWS Conta	P	PV				ēn 2
(Signature) MU 1/2018)	ingrate)	MANS	ed PWS Repres	federal law. (Te	information on	5	í			DSTWQP	EWQP	Sample Point ID (e.g. DSTWQP, EWQP)		ature and pH	Sample Colle	Sample		ATMENT	r or Stablizer I	ct Phone #:	VS Contact:	IS Address:	PWS ID#:	PWS Name:		
Mony	1 M	hidd Clustr	sentative (Print) Signature	exas Penal Code, Title 8, Chapter 37.10)	this form is true and correct and sites selected f					Cafeteria	(Entry Point) Potable Water Tank	Sample Location	1	(Y or N): X Are temperature and pH include Laboratory Approval Form on file	ector (v): X Public Water System	Type (v): X Compliance		Alkalinity Dosage Rate:	Used (v): Phosphate	409-882-2715	Alan Morphis	4647 Farm Road	TX 1810007	Orange Plant	Con	
Date/Time: 10 "- ARECEI	Date/Time: 10t 00 Reling	nonfuld	-	are intimediately upon collection.	or sampling follow the instruction					05/21/21 08:01	05/22/21 08:0	Date Time - 24 (MMDDYY) (HHMM	Sample Collection	at the TCEQ?	Accredited Lab	Non-compliance	Sample Information	Inhibitor Dosage Rate:	Silica			1006			pleted by PWS (or Agen	TEXAS WATER QU
ved <u>By Ashtsignature)</u>	uished By Courier (Signature)	ARLANXEO	Organization	raisification of this form or tampering	s in the TCEQ Monitoring and Sample					5 7.13 24.4	0 7.11 75.7	hr ) pH Temp (°C)	Field Measurements	Y Were temperature and pH meas collection?	3rd Party Contractor> LAB				Calcium carbonate						it)	COMMISSION ON ENVIRON
5/27/21 10:35	Date/Time:	5127/21	Date	with water samples is a crime punishable	Collection Guidance for Water Quality							Rev Driginal Sample Dat ID # (MMDDYY	t7	ured in the field within 15 minutes of samp	ID AL			Laboratory Contact Phon		Laboratory Contac	Laboratory Addres		TCEQ Lab	Laboratory Nam		IMENTAL QUALITY TORING FORM 20679
Alfed Hows Sign	C Laboratory Comments: 005	Date & Time of Sample Preservation (Acidineo): S/27/21 12:20	Rejection Code (if applicable):	Samples received unpreserved	Sample Con	~	~	~	~	202105405 V	292105403 V	Alkalinity (1927			these parameters should als	Parameters Requested: A		409-746-3284		Pollie Holtham	Orange, Texa	1895 I-P Way	m #: 48115	Sabine River	Comple	
ton PC. #39776 in las to SIN	1005 >1 turbidis	Thermometer ID #: (	Actual / Corrected sample temperature: 11, 7/	17 Viced Ambient	ditions Upon Receipt (v)	~~~~~~~~	V V V V V V V	~ ~ ~ ~ ~ ~ ~ ~ ~	~ ~ ~ ~ ~ ~ ~ ~ ~	~~~~~~~~	~ ~ ~ ~ ~ ~ ~ ~ ~	Calcium (1919) Chloride (1017) Conductivity (10 Hardness (1915 Iron (1028) Manganese (10 Sodium (1052) Sulfate (1055)	164) ) 32)	use.	to be analyzed depending on wh	nalyses are required for the par					IS			Authority	ted by Laboratory	
oca,	Y	0	11.27		-	<	<	<	<	<	<	O-Phosphate (1 Silica (1049) *	044) *		ich is in	ameters					1_1					4