

ANALYTICAL REPORT

Eurofins Xenco, Stafford
4145 Greenbriar Dr
Stafford, TX 77477
Tel: (281)240-4200

Laboratory Job ID: 860-15514-1

Client Project/Site: PWS_1810007_AC_20211110_DWQP
Analysis Rt

For:

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

Attn: Ms. Pollie Holtham



Authorized for release by:

11/17/2021 2:48:38 PM

Sachin Kudchadkar, Senior Project Manager
(713)690-4444

Designee for

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

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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.



Table of Contents

Cover Page	1
Table of Contents	2
Definitions/Glossary	3
Case Narrative	4
Detection Summary	5
Client Sample Results	6
QC Sample Results	7
QC Association Summary	8
Lab Chronicle	9
Certification Summary	10
Method Summary	11
Sample Summary	12
Chain of Custody	13
Receipt Checklists	16

Definitions/Glossary

Client: Sabine River Authority

Job ID: 860-15514-1

Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

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

Case Narrative

Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Job ID: 860-15514-1

Laboratory: Eurofins Xenco, Stafford

Narrative

Job Narrative
860-15514-1

Receipt

The samples were received on 11/12/2021 2:00 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 0.8°C

Metals

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

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14

Detection Summary

Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Client Sample ID: PBCU001

Lab Sample ID: 860-15514-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Calcium	38		0.20	0.029	mg/L	1		200.7 Rev 4.4	Total Recoverable
Iron	1.5		0.20	0.028	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	420		25	3.3	mg/L	50		200.7 Rev 4.4	Total Recoverable

Client Sample ID: DS01

Lab Sample ID: 860-15514-2

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	2.3		0.20	0.028	mg/L	1		200.7 Rev 4.4	Total Recoverable
Sodium	420		25	3.3	mg/L	50		200.7 Rev 4.4	Total Recoverable

This Detection Summary does not include radiochemical test results.

Eurofins Xenco, Stafford

Client Sample Results

Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Client Sample ID: PBCU001

Lab Sample ID: 860-15514-1

Date Collected: 11/10/21 09:20

Matrix: Water

Date Received: 11/12/21 14:00

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	38		0.20	0.029	mg/L		11/14/21 11:10	11/17/21 01:44	1
Iron	1.5		0.20	0.028	mg/L		11/14/21 11:10	11/17/21 01:44	1
Sodium	420		25	3.3	mg/L		11/14/21 11:10	11/17/21 01:55	50

Client Sample ID: DS01

Lab Sample ID: 860-15514-2

Date Collected: 11/10/21 09:00

Matrix: Water

Date Received: 11/12/21 14:00

Method: 200.7 Rev 4.4 - Metals (ICP) - Total Recoverable

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	37		0.20	0.029	mg/L		11/14/21 11:10	11/17/21 01:48	1
Iron	2.3		0.20	0.028	mg/L		11/14/21 11:10	11/17/21 01:48	1
Sodium	420		25	3.3	mg/L		11/14/21 11:10	11/17/21 01:59	50

QC Sample Results

Client: Sabine River Authority
 Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Method: 200.7 Rev 4.4 - Metals (ICP)

Lab Sample ID: MB 860-30587/1-A
Matrix: Water
Analysis Batch: 31008

Client Sample ID: Method Blank
Prep Type: Total Recoverable
Prep Batch: 30587

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Calcium	<0.029		0.20	0.029	mg/L		11/14/21 11:10	11/16/21 23:47	1
Iron	<0.028		0.20	0.028	mg/L		11/14/21 11:10	11/16/21 23:47	1
Sodium	<0.067		0.50	0.067	mg/L		11/14/21 11:10	11/16/21 23:47	1

Lab Sample ID: LCS 860-30587/2-A
Matrix: Water
Analysis Batch: 31008

Client Sample ID: Lab Control Sample
Prep Type: Total Recoverable
Prep Batch: 30587

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iron	5.00	5.31		mg/L		106	85 - 115
Sodium	25.0	26.0		mg/L		104	85 - 115

Lab Sample ID: LCSD 860-30587/3-A
Matrix: Water
Analysis Batch: 31008

Client Sample ID: Lab Control Sample Dup
Prep Type: Total Recoverable
Prep Batch: 30587

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	
								RPD	Limit
Calcium	25.0	24.5		mg/L		98	85 - 115	4	20
Iron	5.00	5.00		mg/L		100	85 - 115	6	20
Sodium	25.0	25.6		mg/L		103	85 - 115	2	20

QC Association Summary

Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Metals

Prep Batch: 30587

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-15514-1	PBCU001	Total Recoverable	Water	200.7	
860-15514-2	DS01	Total Recoverable	Water	200.7	
MB 860-30587/1-A	Method Blank	Total Recoverable	Water	200.7	
LCS 860-30587/2-A	Lab Control Sample	Total Recoverable	Water	200.7	
LCSD 860-30587/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7	

Analysis Batch: 31008

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
860-15514-1	PBCU001	Total Recoverable	Water	200.7 Rev 4.4	30587
860-15514-1	PBCU001	Total Recoverable	Water	200.7 Rev 4.4	30587
860-15514-2	DS01	Total Recoverable	Water	200.7 Rev 4.4	30587
860-15514-2	DS01	Total Recoverable	Water	200.7 Rev 4.4	30587
MB 860-30587/1-A	Method Blank	Total Recoverable	Water	200.7 Rev 4.4	30587
LCS 860-30587/2-A	Lab Control Sample	Total Recoverable	Water	200.7 Rev 4.4	30587
LCSD 860-30587/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.7 Rev 4.4	30587

Lab Chronicle

Client: Sabine River Authority
 Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

Client Sample ID: PBCU001

Lab Sample ID: 860-15514-1

Date Collected: 11/10/21 09:20

Matrix: Water

Date Received: 11/12/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	30587	11/14/21 11:10	PB	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1			31008	11/17/21 01:44	AV	XEN STF
Total Recoverable	Prep	200.7			50 mL	50 mL	30587	11/14/21 11:10	PB	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50			31008	11/17/21 01:55	AV	XEN STF

Client Sample ID: DS01

Lab Sample ID: 860-15514-2

Date Collected: 11/10/21 09:00

Matrix: Water

Date Received: 11/12/21 14:00

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.7			50 mL	50 mL	30587	11/14/21 11:10	PB	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		1			31008	11/17/21 01:48	AV	XEN STF
Total Recoverable	Prep	200.7			50 mL	50 mL	30587	11/14/21 11:10	PB	XEN STF
Total Recoverable	Analysis	200.7 Rev 4.4		50			31008	11/17/21 01:59	AV	XEN STF

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Accreditation/Certification Summary

Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

Job ID: 860-15514-1

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	21-038-0	08-04-22
Florida	NELAP	E871002	06-30-22
Louisiana	NELAP	03054	06-30-22
Oklahoma	State	1306	08-31-22
Texas	NELAP	T104704215-21-44	06-30-22
Texas	TCEQ Water Supply	T104704215	12-31-21

Method Summary

Client: Sabine River Authority

Job ID: 860-15514-1

Project/Site: PWS_1810007_AC_20211110_DWQP Analysis Rt

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

Protocol References:

EPA = US Environmental Protection Agency

Laboratory References:

XEN STF = Eurofins Xenco, Stafford, 4145 Greenbriar Dr, Stafford, TX 77477, TEL (281)240-4200



Sample Summary

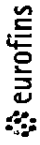
Client: Sabine River Authority
Project/Site: PWS_1810007_AC_20211110_DWQP Analysis
Rt

Job ID: 860-15514-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
860-15514-1	PBCU001	Water	11/10/21 09:20	11/12/21 14:00
860-15514-2	DS01	Water	11/10/21 09:00	11/12/21 14:00

- 1
- 2
- 3
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Chain of Custody Record




Environment Testing
America

TestAmerica Laboratories, Inc.

Regulatory Program: DW NPDES RCRA Other

Client Contact		Project Manager		Site Contact		Pickup Date: 11/12/2021	
Sabine River Authority of Texas		Tel/Fax:		Lab Contact: Pollie Holtham		Carrier	
1895 I-P Way		<input type="checkbox"/> CALENDAR DAYS <input type="checkbox"/> WORKING DAYS		Perform MS / MSD (Y / N)		COC No. _____ of _____ COCs	
Orange, TX 77632		Analysis Turnaround Time		Iron (Method 200.7)		Sampler	
409-746-3284		TAT if different from Below _____		Calcium (Method 200.7)		For Lab Use Only	
409-746-2249		<input checked="" type="checkbox"/> 2 weeks		Sodium (Method 200.7)		Walk-in Client:	
Project Name ARLANXEO WQP		<input type="checkbox"/> 1 week		Filtered Sample (Y / N)		Lab Sampling	
Site		<input type="checkbox"/> 2 days				Job / SDG No	
P O #		<input type="checkbox"/> 1 day					

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix	# of Cont.	Sample Specific Notes
202111228-003	11/10/2021	9:20 AM	Grab	DW	1	
202111228-006	11/10/2021	9:00 AM	Grab	DW	1	
 860-15514 Chain of Custody						
Temp. <i>08</i> IR ID: HOU-272 C/F: <i>08</i> Corrected Temp: <i>08</i>						

Preservation Used: 1= Ice, 2= HCl, 3= H2SO4, 4=HNO3; 5=NaOH, 6= Other

Possible Hazard Identification
Are any samples from a listed EPA Hazardous Waste? Please List any EPA Waste Codes for the sample in the Comments Section if the lab is to dispose of the sample

Non-Hazard Flammable Skin Irritant Poison B Unknown

Special Instructions/QC Requirements & Comments.

Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)

Return to Client Disposal by Lab Archive for _____ Months

Custody Seal Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No	Custody Seal No	Company	Received by:	Cooler Temp. (°C)	Obs'd.	Corr'd.	Company	Therm ID No.
Relinquished by: <i>Arbiter BMD</i>	Company: <i>SRH</i>	Company: <i>SRH</i>	Date/Time: <i>11/21/21 11:21 AM</i>				Company:	Date/Time: <i>11/22/21 9:27</i>
Relinquished by:	Company:	Company:	Date/Time: <i>11/21/21 11:21 AM</i>				Company:	Date/Time: <i>11/21/21 1400</i>
Relinquished by:	Company:	Company:	Date/Time:				Company:	Date/Time:

Form No. CA-C-WI-002, Rev 4.17, dated 4/27/2018



Login Sample Receipt Checklist

Client: Sabine River Authority

Job Number: 860-15514-1

Login Number: 15514

List Source: Eurofins Xenco, Stafford

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	0.8
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	



Login Sample Receipt Checklist

Client: Sabine River Authority

Job Number: 860-15514-1

Login Number: 15514

List Source: Eurofins Xenco, Stafford

List Number: 2

Creator: Rubio, Yuri

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ background as measured by a survey meter.	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	0.8
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.