

June 28, 2021

Caryn Benjamin Louisiana Department of Health PO Box 4489 Baton Rogue LA 70821 225-342-7499

Caryn.Benjamin@la.gov

Client ID: RAW-001 Water Intake, POE-051 134 Munson Dr, TCR-005 401 Suthon Ave, TCR-025 18 Dallas Dr,

TCR-047 1829 Bayou Dularge Rd

BCS ID: 2106237, 2106238, 2106239, 2106240, 2106241

Dear Caryn Benjamin,

We have completed the analysis of the submitted samples as outlined below.

Project Name: Houma Water Treatment PWSID LA1109001

Analysis	Method
Naegleria Fowleri (Culture/PCR)	CDC method; BCS SOP A-1 (NOT ISO17025 & NOT TNI Accredited)

Following, you will find our report on the results of the analysis conducted on the referenced samples. Should you have any questions, please do not hesitate to contact me.

Sincerely,

Bonnie Mull, MPH

**Laboratory Operations Manager** 

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BCS LABORATORIES, INC. — GAINESVILLE
4609 NW 6TH STREET, STE. A, GAINESVILLE, FLORIDA 32609

Tel. (352) 377-9272, Fax. (352) 377-5630 WWW.MICROBIOSERVICES.COM



Client: Louisiana Department of Health Analysis: Naegleria Fowleri (Culture/PCR)

Project Name: Houma Water Treatment PWSID LA1109001

Client Sample ID: RAW-001 Water Intake Sample Date/Time: June 17, 2021 9:30

BCS Sample ID: 2106237 Sample Description: Rexeed 25S Ultrafilter

Date Received: June 19, 2021 11:15 Amount Submitted:10 L % Solids: N/A

Amount Analyzed: 10.0 L Receipt Temperature: 26.0 deg C Preserved: No

Analysis Start: June 21, 2021 11:01 Analysis Stop Date: June 28, 2021 15:11

Analyst: Simon D'Alton, Ph.D. Qualifier: #

Primary Value: 1.0 Visual presence of Amoeba Trophozoites (0 for absence/1.0 for presence)

Secondary Value: 0 Naegleria fowleri DNA detection (0 for absence/1.0 for presence)

Analysis Notes: Active amoeba trophozoites visually detected. N. fowleri PCR assay was negative. N. fowleri

was not detected in submitted sample.

Client: Louisiana Department of Health Analysis: Naegleria Fowleri (Culture/PCR)

Project Name: Houma Water Treatment PWSID LA1109001

Client Sample ID: POE-051 134 Munson Dr Sample Date/Time: June 17, 2021 10:15

BCS Sample ID: 2106238 Sample Description: Rexeed 25S Ultrafilter

Date Received: June 19, 2021 11:15 Amount Submitted: 100 L % Solids: N/A
Amount Analyzed: 100.0 L Receipt Temperature: 26.0 deg C Preserved: No

Analysis Start: June 21, 2021 11:03 Analysis Stop Date: June 28, 2021 15:11

Analyst: Simon D'Alton, Ph.D. Qualifier: #

Primary Value: 0 Visual presence of Amoeba Trophozoites (0 for absence/1.0 for presence)

Secondary Value: 0 Naegleria fowleri DNA detection (0 for absence/1.0 for presence)

Analysis Notes: Active amoeba trophozoites were not visually detected. N. fowleri PCR assay was negative. N. fowleri was not detected in submitted sample.

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Client: Louisiana Department of Health Analysis: Naegleria Fowleri (Culture/PCR)

Project Name: Houma Water Treatment PWSID LA1109001

Client Sample ID: TCR-005 401 Suthon Ave Sample Date/Time: June 17, 2021 13:50

BCS Sample ID: 2106239 Sample Description: Rexeed 25S Ultrafilter

Date Received: June 19, 2021 11:15 Amount Submitted: 100 L % Solids: N/A

Amount Analyzed: 100.0 L Receipt Temperature: 26.0 deg C Preserved: No

Analysis Start: June 21, 2021 11:05 Analysis Stop Date: June 28, 2021 15:11

Analyst: Simon D'Alton, Ph.D. Qualifier: #

Primary Value: 0 Visual presence of Amoeba Trophozoites (0 for absence/1.0 for presence)

Secondary Value: 0 Naegleria fowleri DNA detection (0 for absence/1.0 for presence)

Analysis Notes: Active amoeba trophozoites were not visually detected. N. fowleri PCR assay was negative. N.

fowleri was not detected in submitted sample.

Client: Louisiana Department of Health Analysis: Naealeria Fowleri (Culture/PCR)

Project Name: Houma Water Treatment PWSID LA1109001

Client Sample ID: TCR-025 18 Dallas Dr Sample Date/Time: June 17, 2021 12:50

BCS Sample ID: 2106240 Sample Description: Rexeed 25S Ultrafilter

Date Received: June 19, 2021 11:15 Amount Submitted: 100 L % Solids: N/A
Amount Analyzed: 100.0 L Receipt Temperature: 26.0 deg C Preserved: No

Analysis Start: June 21, 2021 11:07 Analysis Stop Date: June 28, 2021 15:11

Analyst: Simon D'Alton, Ph.D. Qualifier: #

Primary Value: 1.0 Visual presence of Amoeba Trophozoites (0 for absence/1.0 for presence)

Secondary Value: 0 Naegleria fowleri DNA detection (0 for absence/1.0 for presence)

Analysis Notes: Active amoeba trophozoites visually detected. N. fowleri PCR assay was negative. N. fowleri was not detected in submitted sample.

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Client: Louisiana Department of Health Analysis: Naegleria Fowleri (Culture/PCR)

Project Name: Houma Water Treatment PWSID LA1109001

Client Sample ID: TCR-047 1829 Bayou Dularge Rd Sample Date/Time: June 17, 2021 11:35

BCS Sample ID: 2106241 Sample Description: Rexeed 25S Ultrafilter

Date Received: June 19, 2021 11:15 Amount Submitted: 100 L % Solids: N/A

Amount Analyzed: 100.0 L Receipt Temperature: 26.0 deg C Preserved: No

Analysis Start: June 21, 2021 11:09 Analysis Stop Date: June 28, 2021 15:11

Analyst: Simon D'Alton, Ph.D. Qualifier: #

Primary Value: 0 Visual presence of Amoeba Trophozoites (0 for absence/1.0 for presence)

Secondary Value: 0 Naegleria fowleri DNA detection (0 for absence/1.0 for presence)

Analysis Notes: Active amoeba trophozoites were not visually detected. N. fowleri PCR assay was negative. N.

fowleri was not detected in submitted sample.

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Client: Louisiana Department of Health

Project: Houma Water Treatment PWSID LA1109001

Method Detection Limit: 1 microorganism/ unit weight or volume analyzed Practical Quantitation Limit: 1 microorganism/ unit weight or volume analyzed

Report Notes: Custody Seal Condition: Not Present

Sample(s) were received well preserved and in excellent condition. Sample(s) were analyzed following receipt

as per the described analytical methodology. End of report notes.

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I certify that I have examined and I am familiar with the information submitted herein. The results pertain only to sample(s) identified and their condition at time of receipt. Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, and complete. Sampling and field data was obtained from submitted documents. The analysis was authorized and commissioned by the client. The resulting data are representative of the analysis conducted on the material/samples/articles provided by the client (or client's representative) and it's/their condition at the time of analysis. The sample(s) were analyzed in accordance with the appropriate method , however due to the inherent limitations of the methods, microorganisms may avoid detection. BCS Laboratories offers no express or implied warranties concerning the quality, safety, and/or purity of any sample, batch, source, or the process they are derived from. Quality assurance controls were performed as outlined in the method and as per Good Laboratory Practices. The analysis and results presented in this report meet the requirements of the standards of The NELAC Institute (TNI), ISO 17025, and the FL DOH Environmental Laboratory Certification Program, as applicable unless otherwise noted.

	Sonne Mull		
Signature of Laboratory Director/Authorized Rep.	7000	Date: June 28, 2021	

7 M NO

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DATA QU	ALIFIER CODES								
SYMBOL	MEANING								
В	Results based on counts outside the acceptable range.								
X	Sample received without prior notification or delayed delivery. Analysis performed outside of								
^	associated method required QC data set (1 QC data set per 20 samples per 168 hours).								
I	Value is between the laboratory method detection limit & the practical quantitation limit.								
J1	The sample matrix interfered with the ability to make any accurate determination.								
J2	No Quality Control criteria exist for the component.								
J3	The data are questionable because of improper laboratory or field protocols.								
L	Off scale high. Actual value is known to be greater than value given.								
N	Presumptive evidence for the presence of material. There is an indication that the analyte is								
n present, but the confirmation requirement was not met.									
0	Sampled, but analysis not performed.								
Q	Sample held beyond the accepted holding time.								
U	Indicates that the compound was analyzed for but not detected. The specified component was								
	not detected. The reported value is the method detection limit.								
V	Analyte was detected in both sample and the method blank. Data may not be accurate.								
Υ	Laboratory analysis was from an improperly preserved sample; the data may not be accurate								
Z	Too many colonies present (TNTC); the numeric value given represents the upper end of the								
value that can be determined based on the volume.									
Data are rejected and should not be used. QC data for analyte did not meet acceptance									
	Presence or absence of analyte could not be confirmed.								
**	Not reported due to interference.								
^	Sampling container supplied by client. Sterility can not be confirmed by BCS.								
#	BCS Lab specific qualifier. See laboratory analysis notes.								

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BCS Lab	oratories														
	6th Street, Building/ le, FL 32609	/Ste A		FY21 PO# 2000477095				С	CHAIN OF	CUSTOD	Y RECO	RD			
ATTN:	Bonnie Mull, MPH			PHONE: 352-377-9272	-										
	ME: LOUISIANA DEPA	ARTMENT OF	FHEALTH	PROJECT: PWSID LA1109001	+	$\overline{}$	<del></del>				No. 10960s				
Naegleria	a fowleri Analysis			HOUMA WATER TREATMENT SERVICE AREA	A			FIELD ANALYSES:					-		
ADDRESS: Engineering Services - SDWP		PHONE: 225-337-0511										z >			
P.O. Box 448				FAX:			ng/L)	(mg/L)	6					923	
Baton Rogue	e, LA 70821			EMAIL: caryn.benjamin@la.gov	— P	و	n) eu					, n		Thiosulfate?	z
PROJECT MA	NAGER:			SAMPLER: Matrix New World Engineering	afilte	tainer	chlori	chlor			(cm)	sampling			× ×
Caryn Benja	min			Kaleb Destrotess	or Clfr	Co	Free	<b>Total</b> chlorine	re (°C	Ú.	Sri) (i	5		w/ Na	ice?
DATE SAMPLED:	TIME SAMPLED:	VOLUME COLLECTED:	SMPL TYPE	SAMPLE IDENTIFICATION / SITE LOCATION:	Grab (G) or Ultrafilter (UF)	Number of Containers	Residual: Free chlorine (mg/L)	Residual: 1	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/cm)	pH at time	Other.	Preservedv	Samples on ice?
6/17/2021	0930	IOL	sw	RAW-001 Water Intake	UF	1	O	0						À	N
6/17/2021	1015	1001	DW	POE-051 134 Munson Dr	UF	1	1.89	2.40						y	N
6/17/2021	1350	1066	DW	TCR-005 401 Suthon Ave	UF	1	0.14	0,29						y	N
6/17/2021	1250	1001	DW	TCR-025 18 Dallas Dr	UF	1	0.30	0.31						4	N
6/17/2021	1135	1001	DW	TCR-047 1829 Bayou Dularge Rd	UF	1	0.41	0.59					<del>                                     </del>	Ý	N
	The state of the s	100	A	Total or Total Bayes a mangarati		+	Mary San	A Deminary		+		<del></del>	+		11
Loui	isiana Department RAW-001	t of Health	Louis	POE-051	ana Departn TCR-00 210623	005	alth		Departmen TCR-025 2106240	nt of Health	Loui		partment of CR-047	f Health	
Ц	2106237 06/19/2021 11:	-15		2106238 06/19/2021 11:15	06/19/2021				19/2021 11:	:15		21	106241		
		15		1	Î	I	I	I	\	L	1	06/19/2	2021 11:15	1	
				1.5											
RELINQUISHE	SIGNATURE:		PRINT NAM	ΛE:		DATE: TIME:			ΛE:	SAMPLE CONDITION:			SAMPLE TYPE		
M.N.	HILD A		1111	0 4 1	1	1.		155		(FO	OR LAB USE ON			CODE:	
RECEIVED BY	HALL SPACI -		Male	b Petrotels	08	17/21		1800		Actual Temperatu			AQ=Aqueous		
ALOLI. LL		lasol		11 1/2	10		- ,		- 11	Received On Ice			NA= Non Aqueo	ous	
DET INOUISHE	TO DV	10500	(5.	rea phikasik	06	19:	21	11:12	5 AM	1		-	SL = Sludge		
RELINQUISHED BY										Y / N	DW = Drinking V				
SECTIVED DI												6	WW = Waste W	Nater	
RECEIVED BY:	£	1				Air.				Seals Present	ij	(Y)/ N	RW = Rain/Runo	noff Water	
						All	<u></u> ]]				*		GW = Ground W	Water	
FOR NAEGL	ERIA FOWLERI TESTI	INGDO NOT	SHIP SAMPL	LES ON ICE.						Container Intact	/	Y / N	SW = Surface W	Water	
TA LITO II											(		PW = Pool Wate	ter	
COMMENTS/FI	FIELD OBSERVATIONS:									Preserved at Lab	a	Y / N	SO = Soil		
									J		3		OT = Other Matri	atrix	

BCS Laboratories 4609 NW 6th Street, Building A Gainesville, FL 32609	CHAIN OF CUSTODY RECORD						
ATTN Bonnie Mull, MPH							
HOUMA WATER TREATMENT SERVIC	E AREA	TIME OF	COLLECTION	METER	READINGS	ULTRA	FILTRATION
SAMPLE IDENTIFICATION / SITE LOCATION:	Date	START	END	START	END	TOTAL VOLUME COLLECTED (L)	
RAW-001 Water Intake	6/17/2021	0920	0936	0	10	10	1.20
POE-051 134 Munson Dr	6/17/2021	0940	1015	0	100	/00	2.99
TCR-005 401 Suthon Ave	6/17/2021	1315	1350	0	100	100	2.94
TCR-025 18 Dallas Dr	6/17/2021		1250	0	100	100	2.01
TCR-047 1829 Bayou Dularge Rd	6/17/2021		1135	0	169	100	2.95
			+	<del> </del> '	<del></del>		
(EXCEP			ON ICE TO KEEP			HT SHIPMENT BE SHIPPED NON-CHILLED)	
COMMENTS/FIELD OBSERVATIONS:							