



**BIOLOGICAL CONSULTING SERVICES**  
OF NORTH FLORIDA, INC.

September 19, 2017

Caryn Benjamin  
Louisiana Department of Health  
PO Box 4489  
Baton Rouge LA 70821  
225-342-7499  
Caryn.Benjamin@la.gov  
Client ID: ACR-182, MRT-078

BCS ID: 1709053, 1709054

Dear Caryn Benjamin,

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

Project Name: Schriever LA1109002

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

**BCS LABORATORIES, INC. — GAINESVILLE**  
4609 NW 6TH STREET, STE. A. GAINESVILLE, FLORIDA 32609  
TEL. (352) 377-9272, FAX. (352) 377-5630  
WWW.MICROBIOSERVICES.COM

FL DOH #E82924, ISO/IEC 17025:2005 L2422 (L-A-B), PA DEP# 68-03950, EPA# FLO1147  
THIS REPORT SHALL NOT BE REPRODUCED, EXCEPT IN FULL, WITHOUT THE WRITTEN CONSENT OF BCS LABORATORIES



Client: Louisiana Department of Health  
Analysis: *Naegleria Fowleri (Culture/PCR)*  
Project Name: Schriever LA1109002  
Client Sample ID: ACR-182 Sample Date/Time: September 06, 2017 8:55  
BCS Sample ID: 1709053 Sample Description: Rexeed 25S Ultrafilter  
Date Received: September 07, 2017 10:40 Amount Submitted: 100.5 L % Solids: N/A  
Amount Analyzed: 100.5 L Receipt Temperature: 25.4 deg C Preserved: Yes  
Analysis Start: September 07, 2017 11:47 Analysis Stop Date: September 18, 2017 17:43  
Analyst: Jessica Weglarz, B.S. Qualifier: #  
Primary Value: 1.0 Visual presence of Amoeba/Cysts (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 not detected; Cysts 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: Schriever LA1109002  
Client Sample ID: MRT-078 Sample Date/Time: September 06, 2017 10:42  
BCS Sample ID: 1709054 Sample Description: Rexeed 25S Ultrafilter  
Date Received: September 07, 2017 10:40 Amount Submitted: 100.5 L % Solids: N/A  
Amount Analyzed: 100.5 L Receipt Temperature: 25.4 deg C Preserved: Yes  
Analysis Start: September 06, 2017 11:49 Analysis Stop Date: September 18, 2017 17:43  
Analyst: Jessica Weglarz, B.S. Qualifier: #  
Primary Value: 1.0 Visual presence of Amoeba/Cysts (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 not detected; Cysts 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: Schriever LA1109002

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 I am familiar with the information submitted herein. The results pertain only to analyzed sample(s) associated identifier #(s). Based on my inquiry of the individuals responsible for the analysis, I believe the data to be true, accurate, complete. Sampling field data was obtained from submitted documents. The analysis was authorized 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) 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 results presented in this report meet the requirements of the standards of The NELAP Institute (TNI), ISO 17025, and the FL DOH Environmental Laboratory Certification Program, as applicable unless otherwise noted.



Signature of Laboratory Director/Authorized Rep. \_\_\_\_\_

Date: September 19, 2017

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DATA QUALIFIER CODES	
SYMBOL	MEANING
B	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 & laboratory 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 present, but the confirmation requirement was not met.
O	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 associated method blank. Data may not be accurate.
Y	The 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 criteria. Presence or absence of analyte could not be confirmed.
**	Not reported due to interference.
^	BCS is not currently accredited for this analyte.
#	BCS Lab specific qualifier. See laboratory analysis notes.

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BCS Laboratories  
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Gainesville, FL 32609

ATTN: Bonnie Mull, MPH PHONE: 352-377-9272

CLIENT NAME: LOUISIANA DEPARTMENT OF HEALTH

PROJECT:

*Naegleria fowleri* Analysis - 2017

Schriever Water System (LA1109002)

ADDRESS: Engineering Services - SDWP

PHONE: 225-342-7499

P.O. Box 4489

FAX: 225-342-7303

Baton Rouge, LA 70821

EMAIL: [caryn.benjamin@la.gov](mailto:caryn.benjamin@la.gov)

PROJECT MANAGER:

SAMPLER:

Caryn Benjamin

*Frank Naguin, David Boggs*

CHAIN OF CUSTODY RECORD

DATE SAMPLED:	TIME SAMPLED:	VOLUME COLLECTED:	SMPL TYPE	SAMPLE IDENTIFICATION / SITE LOCATION:	Grab (G), Composite (C) or Ultrafilter (UF)	Number of Containers	FIELD ANALYSES:							Preserved w/ Na Thiosulfate? Y / N	Samples on ice? Y / N	
							Residual chloring or Total chlorine (mg/L) -- Circle One	pH at time of sampling	Temperature (°C)	Turbidity (NTU)	Conductivity (µS/cm)	Dissolved Oxygen (mg/L)	Other:			
9/6	8:55	100.5	DW	ACR-182	UF	1	3.5	6.74	26.9	0.45	274			Y	N	
9/6	10:42	100.5	DW	MRT-078	UF	1	2.02	6.75	26.9	0.1	336			Y	N	
				Louisiana Department of Health ACR-182 1709053 09/07/2017 10:40					Louisiana Department of Health MRT-078 1709054 09/07/2017 10:40							

SIGNATURE:	PRINT NAME:	DATE:	TIME:	SAMPLE CONDITION: (FOR LAB USE ONLY)	SAMPLE TYPE CODE:
RELINQUISHED BY: <i>David Boggs</i>	David Boggs	9/6/2017		Actual Temperature: <i>24.6°C + 0.8°C = 25.4°C</i>	NA = Aqueous
RECEIVED BY: <i>JW</i>		9/7/17	10:40	Received On Ice Y / <input checked="" type="radio"/> N	NA = Non Aqueous
RELINQUISHED BY:				Preserved Y / <input checked="" type="radio"/> N	SL = Sludge
RECEIVED BY:				Seals Present Y / <input checked="" type="radio"/> N	DW = Drinking Water
PLEASE SHIP SAMPLES ON ICE TO KEEP COLD DURING OVERNIGHT SHIPMENT (EXCEPT FOR NAEGLERIA FOWLERI TESTING--FOR WHICH SAMPLES SHOULD BE SHIPPED NON-CHILLED)				Container Intact <input checked="" type="radio"/> Y / <input type="radio"/> N	WW = Waste Water
				Preserved at Lab Y / <input checked="" type="radio"/> N	RW = Rain/Runoff Water
					GW = Ground Water
COMMENTS/FIELD OBSERVATIONS:					SW = Surface Water
					PW = Pool Water
					SO = Soil
					OT = Other Matrix



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**CHAIN OF CUSTODY RECORD**

ATTN Bonnie Mull, MPH								
LOUISIANA DEPARTMENT OF HEALTH		TIME OF COLLECTION		METER READINGS		ULTRAFILTRATION		
Schriever Water System (LA1109002)	Date	START	END	START	END	TOTAL VOLUME COLLECTED (L)	FLOW RATE (L/MIN)	
ACR - 182	9/6/2017	8:55	9:30	0.0	100.5	100.5 L	2.8 L/min	
MAT - 078	9/6/2017	10:42	11:17	0.0	100.5	100.5 L	2.86 L/min	

**PLEASE SHIP SAMPLES ON ICE TO KEEP COLD DURING OVERNIGHT SHIPMENT**

**(EXCEPT FOR NAEGLERIA FOWLERI TESTING--FOR WHICH SAMPLES SHOULD BE SHIPPED NON-CHILLED)**

COMMENTS/FIELD OBSERVATIONS: