July 22, 2020 Service Request No:J2003715

Mr. Jeremy Parrish
Florida DEP
8800 Baymeadows Way West
Jacksonville, FL 32256-7577

Laboratory Results for: FDEP-NE ROC

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory July 20, 2020
For your reference, these analyses have been assigned our service request number **J2003715.**

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. In accordance with the TNI 2016 Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Candice Turner
Project Management
Assistant

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ALS Group USA, Corp.
dba ALS Environmental

Narrative Documents

ALS Environmental—Jacksonville Laboratory
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Client: Florida Department of Environmental Protection (DEP)
Service Request: J2003715
Project: FDEP-NE ROC
Date Received: 07/20/2020
Sample Matrix: Water

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples for the Tier I level requested by the client.

Sample Receipt:

Three water samples were received for analysis at ALS Environmental on 07/20/2020. Any discrepancies upon initial sample inspection are annotated on the sample receipt and preservation form included within this report. The samples were stored at minimum in accordance with the analytical method requirements.

Microbiology:

Method ASTM D6503-99: Sample(s) J2003715-002 was removed from the incubator and read on 7/21/20 1557.
Method SM 9223 B: Sample(s) J2003715 (1-3) were removed from the incubator and read on 7/21/20 1556.

Approved by Candice Turner Date 07/22/2020

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030068			Lab ID: J2003715-001			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Escherichia coli	1200			1.0	MPN/100mL	SM 9223 B

CLIENT ID: 20030809			Lab ID: J2003715-002			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Enterococcus	285			10	MPN/100mL	ASTM D6503-99
Escherichia coli	4350			10	MPN/100mL	SM 9223 B

CLIENT ID: 20030872			Lab ID: J2003715-003			
Analyte	**Results**	**Flag**	**MDL**	**MRL**	**Units**	**Method**
Escherichia coli	1990			1.0	MPN/100mL	SM 9223 B

Sample Receipt Information

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www.alsglobal.com

Client: Florida Department of Environmental Protection (DEP) **Service Request:**J2003715
Project: FDEP-NE ROC/RQ-2020-07-20-22

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
J2003715-001	20030068	7/20/2020	1015
J2003715-002	20030809	7/20/2020	1110
J2003715-003	20030872	7/20/2020	1145

ALS Environmental

Cooler Receipt Form

Client: FDEP Service Request #: J2003715

Project: FDEP-NE ROC

Shipping paid by ALS? Yes (No) N/A

Shipment received on 7/20 and opened on 7/20 by BB

COURIER: ALS UPS FEDEX DHL (Client) Other _____ Airbill #_____

Packing Conditions

Custody seals on outside of cooler?		Yes	(No)	
If yes, how many and where?	#:____	on:	lid	other
Were seals intact and signature and date correct?		Yes	No	(N/A)
Temperature of cooler(s) upon receipt (0-6°C)	0.0°C			
Thermometer ID	T200			
Temperature Blank Present?		Yes	(No)	
Temperature preservation?		(Ice)	Ice Packs	None
Type of packing material present	Bubble Wrap	Netting	Paper	
	Vial Holder	Styrofoam	Other	(N/A)

Sample Conditions **If No for any items below, note discrepancies in comments section.**

COC properly filled out?	(Yes)	No	Didn't arrive
Where did the containers originate?	ALS	(Client)	
All containers arrive in good condition?	(Yes)	No	
All container labels complete?	(Yes)	No	
All container labels agree with custody papers?	(Yes)	No	N/A
Any samples with unusual characteristics?	(Typical)	Exceptional	
All samples received with sufficient volume?	(Yes)	No	
Correct containers used for the tests indicated?	(Yes)	No	N/A
All containers received with the appropriate preservative?	Yes	No	(N/A)
All samples received within analysis holding times?	(Yes)	No	N/A
VOA vials free of air bubbles greater than 6mm?	Yes	No	(N/A)

Sample ID	Reagent	Lot #	Exp. Date	mL added	Initials Date/Time

Additional comments and/or explanation of all discrepancies noted above:

Client approval to run samples if discrepancies noted: Date:

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Florida DEP
FDEP-NE ROC

CHAIN OF CUSTODY / LABORATORY ANALYSIS REQUEST FORM

ALS Environmental

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Page ____

Client Name	Project Number
FDEP-NE ROC	RQ-2020- 07-20-22
Report To	**Report CC**
Dep-Overflowmicro@dep.state.fl.us	
Company/Address	
8800 Baymeadows Way W Jacksonville, Fl 32256	
Phone #	**FAX #**
904-256-1700	
Sampler's Signature	**Sampler's Printed Name**
Kelly A McDonald	Kelly A McDonald

ANALYSIS REQUESTED (Include Method Numbe

CLIENT SAMPLE ID	LAB ID	SAMPLING DATE	SAMPLING TIME	Matrix	NUMBER OF CONTAINERS	E.Coli	Enterocooi	REMARKS
					eservat	8	8	
20030068		7/20	1015	SW	1	X		Fresh
20030809		↓	1110	↓	2	X	X	Salt
20030872		↓	1145	↓	1	X		Fresh

Preservative Key
0. None
1. HCL
2. HNO3
3. H2SO4
4. NaOH
5. Zn. Acetate
6. MeOH
7. NaHSO4
8. ICE

Special Instructions/Comments: Email Report to: Dep-Overflowmicro@dep.state.fl.us

0.0°c

TURNAROUND REQUIREMENTS

____ RUSH (SURCHARGES APPLY)
X STANDARD

REQUESTED FAX DATE
N/A
REQUESTED REPORT DATE
N/A

REPORT REQUIREMENTS

____ I. Results Only
____ II. Results + QC Summaries (LCS, DUP, MS/MSD as required)
____ III. Results + QC and Calibration Summaries
____ IV. Data Validation Report with Raw Data

Edata ____ Yes ____ No

INVOICE INFORMATION

P.O. # ~~B10799~~

Bill to: ____

Relinquished By	Received By	Relinquished By	Received By	Relinquished By	Received By
Signature: Kelly A McDonald	Signature: [illegible]	Signature	Signature	Signature	Signature
Printed Name: Kelly McDonald	Printed Name: [illegible]	Printed Name	Printed Name	Printed Name	Printed Name
Firm: FDEP NEROC	Firm: AZA	Firm	Firm	Firm	Firm
Date/Time: 7/20/2020 1305	Date/Time: 7/20/20 1305	Date/Time	Date/Time	Date/Time	Date/Time

Miscellaneous Forms

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FLORIDA DEP DATA QUALIFIERS

B Results based upon colony counts outside the acceptable range.

D Measurement was made in the field.

H Value based on field kit determination; results may not be accurate.

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J Estimated value (one of the following reasons is discussed in the project case narrative).
1. The result may be inaccurate because the surrogate recovery limits have been exceeded.
2. No known quality control criteria exists for the component.
3. The reported value failed to meet the established quality control criteria for either precision or accuracy.
4. The sample matrix interfered with the ability to make any accurate determination (e.g., primary and confirmation results show greater than 40% RPD).
5. The data is questionable because of improper laboratory or field protocols (e.g., GC/MS Tune did not meet method criteria).

K Off scale low. The value is less than the lowest calibration standard but greater than the method reporting limit (MRL).

L Off scale high. The analyte is above the upper limit of the linear calibration range.

M The MDL/MRL has been elevated because the analyte could not be accurately quantified due to matrix interference.

N Presumptive evidence of the analyte. Confirmation was not performed.

Q Sample held beyond the accepted holding time.

T Value reported is less than the laboratory method detection limit. The value is reported for informational purposes only.

U Indicates that the compound was analyzed for but not detected.

V Indicates that the analyte was detected in both the sample and the associated method blank.

Y The laboratory analysis was from an improperly preserved sample.

Z Too many colonies were present (TNTC). The numeric value represents the filtration volume.

Jacksonville Lab ID # for State Certifications[1]

Agency	Number	Expiration Date
Florida Department of Health	E82502	6/30/2021
Georgia Department of Natural Resources	958	6/30/2021
Kentucky Division of Waste Management	123042	6/30/2021
Louisiana Department of Environmental Quality	02086	6/30/2020
Maine Department of Health and Human Services	FL01294	2/3/2021
New York State Department of Health	121113	4/1/2021
North Carolina Department of Environment and Natural Resources	527	12/31/2020
South Carolina Department of Health and Environmental Control	96021001	6/30/2020
Texas Commission on Environmental Quality	T104704197-20-13	5/31/2021
Virginia Environmental Accreditation Program	460191	12/14/2020

[1] Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the laboratory case narrative provided. For a specific list of accredited analytes, refer to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ACRONYMS

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
M	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but greater than or equal to the MDL.

Client: Florida Department of Environmental Protection (DEP) **Service Request:** J2003715
Project: FDEP-NE ROC/RQ-2020-07-20-22

Sample Name: 20030068 **Date Collected:** 07/20/20
Lab Code: J2003715-001 **Date Received:** 07/20/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 9223 B		ASOTO

Sample Name: 20030809 **Date Collected:** 07/20/20
Lab Code: J2003715-002 **Date Received:** 07/20/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
ASTM D6503-99		ASOTO
SM 9223 B		ASOTO

Sample Name: 20030872 **Date Collected:** 07/20/20
Lab Code: J2003715-003 **Date Received:** 07/20/20
Sample Matrix: Water

Analysis Method	Extracted/Digested By	Analyzed By
SM 9223 B		ASOTO

Sample Results

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Microbiology

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Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2003715
Project:	FDEP-NE ROC/RQ-2020-07-20-22	**Date Collected:**	07/20/20 11:10
Sample Matrix:	Water	**Date Received:**	07/20/20 13:05
Sample Name:	20030809	**Basis:**	NA
Lab Code:	J2003715-002		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	**285**	MPN/100mL	10	10	07/20/20 15:08	
Escherichia coli	SM 9223 B	**4350**	MPN/100mL	10	10	07/20/20 14:57	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2003715
Project:	FDEP-NE ROC/RQ-2020-07-20-22	**Date Collected:**	07/20/20 10:15
Sample Matrix:	Water	**Date Received:**	07/20/20 13:05
Sample Name:	20030068	**Basis:**	NA
Lab Code:	J2003715-001		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	**1200**	MPN/100mL	1.0	1	07/20/20 14:57	

Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2003715
Project:	FDEP-NE ROC/RQ-2020-07-20-22	**Date Collected:**	07/20/20 11:45
Sample Matrix:	Water	**Date Received:**	07/20/20 13:05
Sample Name:	20030872	**Basis:**	NA
Lab Code:	J2003715-003		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	**1990**	MPN/100mL	1.0	1	07/20/20 14:57	

QC Summary Forms

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Microbiology

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Analytical Report

Client:	Florida Department of Environmental Protection (DEP)	**Service Request:**	J2003715
Project:	FDEP-NE ROC/RQ-2020-07-20-22	**Date Collected:**	NA
Sample Matrix:	Water	**Date Received:**	NA
Sample Name:	Method Blank	**Basis:**	NA
Lab Code:	J2003715-MB		

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	1.0 U	MPN/100mL	1.0	1	07/20/20 15:08	