



July 09, 2021

Service Request No:J2101403

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

Laboratory Results for: RQ-2021-06-28-40

Dear Mr.Parrish,

Enclosed are the results of the sample(s) submitted to our laboratory July 01, 2021
For your reference, these analyses have been assigned our service request number **J2101403**.

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.

Please contact me if you have any questions. My extension is 4429. You may also contact me via email at valerie.spears@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

Valerie Spears
Laboratory Director

ADDRESS 9143 Philips Highway, Suite 200, Jacksonville, FL 32256
PHONE +1 904 739 2277 | FAX +1 904 739 2011
ALS Group USA, Corp.
dba ALS Environmental



Narrative Documents

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Client: Florida Department of Environmental Protection
(DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water

Service Request: J2101403

Date Received: 07/01/2021

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:

Six water samples were received for analysis at ALS Environmental on 07/01/2021. 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) were removed from the incubator and read on 7/2/21 1559.

Method SM 9223 B: Sample(s) were removed from the incubator and read on 7/2/21 1539.

Approved by



Date

07/09/2021

SAMPLE DETECTION SUMMARY

CLIENT ID: 20030848			Lab ID: J2101403-001			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	687			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 20030653			Lab ID: J2101403-002			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	579			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 20030123			Lab ID: J2101403-003			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Enterococcus	1550			1.0	MPN/100m L	ASTM D6503-99

CLIENT ID: 20030753			Lab ID: J2101403-004			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	345			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 20030897			Lab ID: J2101403-005			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	1120			1.0	MPN/100m L	SM 9223 B

CLIENT ID: 20030726			Lab ID: J2101403-006			
----------------------------	--	--	-----------------------------	--	--	--

Analyte	Results	Flag	MDL	MRL	Units	Method
Escherichia coli	88.4			1.0	MPN/100m L	SM 9223 B



Sample Receipt Information

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40

Service Request:J2101403

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J2101403-001	20030848	7/1/2021	0915
J2101403-002	20030653	7/1/2021	0950
J2101403-003	20030123	7/1/2021	1015
J2101403-004	20030753	7/1/2021	1025
J2101403-005	20030897	7/1/2021	1045
J2101403-006	20030726	7/1/2021	1055

ALS Contact: Mandy Sullivan

Page 1 of 1

THE
JOURNAL OF THE
ROYAL ANTHROPOLOGICAL INSTITUTE

Project Number

Page 7 of 25



Cooler Receipt Form

Client: FDEP Service Request #: 52101403
Project: RQ-2021-06-28-410 Shipping paid by ALS?
Shipment received on 7/1/21 and opened on 7/1/21 by CEW Yes No (N/A)
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)

0.8

T202

Thermometer ID

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:



Miscellaneous Forms

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com

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 Certifications¹

Agency	Number	Expiration Date
Florida Department of Health	E82502	6/30/2021
Georgia Department of Natural Resources	958	6/30/2021

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.



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.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40/

Service Request: J2101403

Sample Name: 20030848
Lab Code: J2101403-001
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
CWEIGAND

Sample Name: 20030653
Lab Code: J2101403-002
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
CWEIGAND

Sample Name: 20030123
Lab Code: J2101403-003
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
CWEIGAND

Sample Name: 20030753
Lab Code: J2101403-004
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
CWEIGAND

Sample Name: 20030897
Lab Code: J2101403-005
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
CWEIGAND

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40/

Service Request: J2101403

Sample Name: 20030726
Lab Code: J2101403-006
Sample Matrix: Water

Date Collected: 07/1/21
Date Received: 07/1/21

Analysis Method
SM 9223 B

Extracted/Digested By

Analyzed By
CWEIGAND



Sample Results

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com



Microbiology

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904)739-2277 Fax (904)739-2011
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030123
Lab Code: J2101403-003

Service Request: J2101403
Date Collected: 07/01/21 10:15
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Enterococcus	ASTM D6503-99	1550	MPN/100mL	1.0	1	07/01/21 15:48	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030848
Lab Code: J2101403-001

Service Request: J2101403
Date Collected: 07/01/21 09:15
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	687	MPN/100mL	1.0	1	07/01/21 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030653
Lab Code: J2101403-002

Service Request: J2101403
Date Collected: 07/01/21 09:50
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	579	MPN/100mL	1.0	1	07/01/21 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030753
Lab Code: J2101403-004

Service Request: J2101403
Date Collected: 07/01/21 10:25
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	345	MPN/100mL	1.0	1	07/01/21 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030897
Lab Code: J2101403-005

Service Request: J2101403
Date Collected: 07/01/21 10:45
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	1120	MPN/100mL	1.0	1	07/01/21 15:31	

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: 20030726
Lab Code: J2101403-006

Service Request: J2101403
Date Collected: 07/01/21 10:55
Date Received: 07/01/21 11:28
Basis: NA

General Chemistry Parameters

Analyte Name	Analysis Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Escherichia coli	SM 9223 B	88.4	MPN/100mL	1.0	1	07/01/21 15:31	



QC Summary Forms

ALS Environmental - Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904) 739-2277 Fax (904) 739-2011
www.alsglobal.com



Microbiology

ALS Environmental—Jacksonville Laboratory
9143 Philips Highway, Suite 200, Jacksonville, FL 32256
Phone (904)739-2277 Fax (904)739-2011
www.alsglobal.com

ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida Department of Environmental Protection (DEP)
Project: RQ-2021-06-28-40
Sample Matrix: Water
Sample Name: Method Blank
Lab Code: J2101403-MB

Service Request: J2101403
Date Collected: NA
Date Received: NA
Basis: NA

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	07/01/21 15:48	
Escherichia coli	SM 9223 B	1.0 U	MPN/100mL	1.0	1	07/01/21 15:31	