



December 05, 2017

Service Request No:J1708114

Sara Armour
Florida Department of Environmental Protection
Bureau of Laboratories
2600 Blair Stone Road
Tallahassee, FL 32399

Laboratory Results for: LSJR North Salt

Dear Sara,

Enclosed are the results of the sample(s) submitted to our laboratory November 30, 2017
For your reference, these analyses have been assigned our service request number **J1708114**.

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 to the NELAC 2003 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

Gina Bondani
Project Manager

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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 DEP
Project: LSJR North Salt/2017-11-20-08
Sample Matrix: Water

Service Request: J1708114
Date Received: 11/30/17

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. When appropriate to the procedure, method blank results have been reported with each analytical test. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Parameters that are included in the NELAC Fields of Testing but are not included in the lab's NELAC accreditation are identified in the discussion of each analytical procedure.

Sample Receipt

3 water samples were received for analysis at ALS Environmental on 11/30/17. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at $\leq 6^{\circ}\text{C}$ upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Microbiology Analyses:

ASTM D6503: Incubation end time and sample read time was 12/1/17 1614

Approved by  Date 12/5/2017

SAMPLE DETECTION SUMMARY

CLIENT ID: G2NE014711302017				Lab ID: J1708114-001		
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	200		2.0	2.0	MPN/100m	ASTM
CLIENT ID: G2NE012211202017				Lab ID: J1708114-002		
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	240		2.0	2.0	MPN/100m	ASTM
CLIENT ID: G2NE013311320217				Lab ID: J1708114-003		
Analyte	Results	Flag	MDL	PQL	Units	Method
Enterococcus	80		2.0	2.0	MPN/100m	ASTM



Sample Receipt Information

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Client: Florida DEP
Project: LSJR North Salt/2017-11-20-08

Service Request:J1708114

SAMPLE CROSS-REFERENCE

<u>SAMPLE #</u>	<u>CLIENT SAMPLE ID</u>	<u>DATE</u>	<u>TIME</u>
J1708114-001	G2NE014711302017	11/30/2017	1045
J1708114-002	G2NE012211202017	11/30/2017	1130
J1708114-003	G2NE013311320217	11/30/2017	1210

Cooler Receipt Form

Client: FDEP Service Request #: J1708114
 Project: LSJR North Salt Shipping paid by ALS? Yes No N/A
 Cooler received on 11/30/17 and opened on 11/30/17 by SMS
 COURIER: ALS UPS FEDEX DHL Client Other _____ Airbill # _____

- 1 Were custody seals on outside of cooler? Yes No
 If yes, how many and where? #: _____ on lid other N/A
- 2 Were seals intact and signature and date correct? Yes No N/A
- 3 Were custody papers properly filled out? Yes Yes No N/A
- 4 Temperature of cooler(s) upon receipt (Should be 0°C and ≤ 6°C) 0.0°C
- 5 Thermometer ID T124
- 6 Temperature Blank Present? Yes No
- 7 Were Ice or Ice Packs present Ice Ice Packs No
- 8 Did all bottles arrive in good condition (unbroken, etc....)? Yes No N/A
- 9 Type of packing material present
 Netting Vial Holder Bubble Wrap
 Paper Styrofoam Other N/A
- 10 Were all bottle labels complete (sample ID, preservation, etc....)? Yes No N/A
- 11 Did all bottle labels and tags agree with custody papers? Yes No N/A
- 12 Were the correct bottles used for the tests indicated? Yes No N/A
- 13 Were all of the preserved bottles received with the appropriate preservative?
 HNO3 pH<2 H2SO4 pH<2 ZnAc2/NaOH pH>9 NaOH pH>12 HCl pH<2
 Preservative additions noted below
- 14 Were all samples received within analysis holding times? Yes No N/A
- 15 Were VOA vials free of air bubbles greater than 6mm? If present, note below Yes No N/A
- 16 Where did the bottles originate? ALS Client

Sample ID	Reagent	Lot #	ml added	Initials Date/Time

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

Client approval to run samples if discrepancies noted: _____ Date: _____



CHAIN OF CUSTODY/LABORATORY ANALYSIS REQUEST FORM

9143 Phillips Highway, Ste 200 • Jacksonville, FL 32256 (904) 739-2277 • 800-695-7222 x06 • FAX (904) 739-2011

PAGE _____ OF _____

SR# J1708114

CAS Contract

Project Name LSJR NORTH SALT		Project Number 2017-11-20-08		ANALYSIS REQUESTED (Include Method Number and Container Preservative)																					
Project Manager Jeremy Parrish		Email Address Jeremy.M.Parrish@state.fl.us		PRESERVATIVE 8																					
Company/Address FDEP 8800 Baymeadows Way West JAX FL 32256		Phone # 904 256 1700		FAX #		J1708114 Florida Department of Environmental Protection LSJR North Salt 5 Preservative Key 0. NONE 1. HCL 2. HNO₃ 3. H₂SO₄ 4. NaOH 5. Zn. Acetate 6. MeOH 7. NaHSO₄ 8. Other ce																			
Sample Signature Jeremy Parrish		Sampler's Printed Name Jeremy Parrish		NUMBER OF CONTAINERS Enterococcus																					
CLIENT SAMPLE ID		LAB ID		SAMPLING DATE		TIME		MATRIX																	
GZNE014711302017		Dunn Faye		11/30/17		1045		SW		1 X															
GZNE012211202017		Moncrief		11/30/17		1130		SW		1 X															
GZNE013311302017		Ribault		11/30/17		1210		SW		1 X															
SPECIAL INSTRUCTIONS/COMMENTS														TURNAROUND REQUIREMENTS RUSH (SURCHARGES APPLY) ☒ STANDARD REQUESTED FAX DATE REQUESTED REPORT DATE				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 V. Specialized Forms / Custom Report Edata Yes No				INVOICE INFORMATION PO # BILL TO:			
SAMPLE RECEIPT: CONDITION/COOLER TEMP: 0.0°C CUSTODY SEALS: Y N																									
RELINQUISHED BY Jeremy Parrish		RECEIVED BY Shannon Falcetta		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY		RELINQUISHED BY		RECEIVED BY											
Signature Jeremy Parrish		Signature Shannon Falcetta		Signature		Signature		Signature		Signature		Signature		Signature											
Printed Name Jeremy Parrish		Printed Name AL S		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name		Printed Name											
Firm		Firm		Firm		Firm		Firm		Firm		Firm		Firm											
Date/Time 11/30/17 1255		Date/Time 11/30/17 1255		Date/Time		Date/Time		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 Certifications¹

Agency	Number	Expiration Date
Department of Defense	66206	7/31/2018
Florida Department of Health	E82502	6/30/2018
Georgia Department of Natural Resources	958	6/30/2018
Kentucky Division of Waste Management	123042	6/30/2018
Louisiana Department of Environmental Quality	02086	6/30/2018
Maine Department of Health and Human Services	2015002	2/3/2019
North Carolina Department of Environment and Natural Resources	527	12/31/2017
Pennsylvania Department of Environmental Protection	68-04835	8/31/2018
South Carolina Department of Health and Environmental Control	96021001	6/30/2018
Texas Commission on Environmental Quality	T104704197-16-8	5/31/2018
Virginia Environmental Accreditation Program	460191	12/14/2017

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.

ALS Group USA, Corp.

dba ALS Environmental

Analyst Summary report

Client: Florida DEP
Project: LSJR North Salt/2017-11-20-08

Service Request: J1708114

Sample Name: G2NE014711302017
Lab Code: J1708114-001
Sample Matrix: Water

Date Collected: 11/30/17**Date Received:** 11/30/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: G2NE012211202017
Lab Code: J1708114-002
Sample Matrix: Water

Date Collected: 11/30/17**Date Received:** 11/30/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN

Sample Name: G2NE013311320217
Lab Code: J1708114-003
Sample Matrix: Water

Date Collected: 11/30/17**Date Received:** 11/30/17

Analysis Method
ASTM D6503-99

Extracted/Digested By

Analyzed By
AVONEBERSTEIN



Sample Results

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Microbiology

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ALS Group USA, Corp.
dba ALS Environmental

Analytical Report

Client: Florida DEP
Project: LSJR North Salt/2017-11-20-08
Sample Matrix: Water
Analysis Method: ASTM D6503-99

Service Request: J1708114
Date Collected: 11/30/17
Date Received: 11/30/17
Units: MPN/100mL
Basis: NA

Enterococcus

Sample Name	Lab Code	Result	PQL	Dil.	Date Analyzed	Q
G2NE014711302017	J1708114-001	200	2.0	2	11/30/17 13:40	
G2NE012211202017	J1708114-002	240	2.0	2	11/30/17 13:40	
G2NE013311320217	J1708114-003	80	2.0	2	11/30/17 13:40	
Method Blank	J1708114-MB	1.0 U	1.0	1	11/30/17 13:40	