281 N Main St., STE # 101
Wasilla AK, 99654
907-373-6130

Alaska Laboratory# AK01000

Client	SOA Bristol Bay Pathogens 2022
Contact	Sarah Apsens, Laura Eldred
Project Name	Kanakanak Beach 5/25/2022 Sampling 1
AWL #	AWL-22-01721
PWS #	None

Please direct any questions regarding the final report to Mary@AKWaterLabs.com or Matt@AKWaterLabs.com, or call 907-373-6130.

The results presented in this report meet the requirement of the laboratory's certifications and internal QC processes. Any exceptions will be noted in the case narratives attached. Subcontract Data has been entered into the AWL Final Report, however the full subcontract report is available upon request.

The attached should contain analytical results for the analyses submitted on the client chain of custody. The information includes no opinions of the analysts or labs, data is represented after meeting certified testing requirements, and quality control measures.

Reproduction of the report in full requires the written approval of the laboratory.

Mary Curry Digitally signed by Mary Curry
Date: 2022.05.27 11:46:41 -08'00'

Signature of Laboratory Management Date

Alaska Water Laboratories

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Client Project Name	Kanakanak Beach 5/25/2022 Sampling 1	AWL #	AWL-22-01721
Receipt Date and Time	5/25/2022 17:35	Due Date	5/27/2022
Cooler/Sample Temp (C)	4.64	Sampler Initials	BM

Sample Receipt Comments Samples received by MCC on 5/25/2022 at 4.64C (RT#1), on frozen ice.

Samples Received

Microbiological

Sample Location	AWL ID	Collection Date/ Time	Analysis Date/Time	Analysis	Notes
Kanak-052522-001	AWL-22-01721-001	5/25/2022 14:00	5/25/2022 18:26	Fecal Coliform	
Kanak-052522-002	AWL-22-01721-002	5/25/2022 14:00	5/25/2022 18:59	Entero	
Kanak-052522-003-DUP	AWL-22-01721-003	5/25/2022 14:00	5/25/2022 18:26	Fecal Coliform	Duplicate Site
Kanak-052522-004-DUP	AWL-22-01721-004	5/25/2022 14:00	5/25/2022 18:59	Entero	Duplicate Site

Analytical Methods

Analyte	Method	Comments
Fecal Coliform	SM9222D MF	Dilutions 0.1mL, 1mL, 10mL; 10mL plate showed signficant sediment, indicating possible sediment masking of additional colonies.
Enterococci	ASTM D6503	Dilutions 1mL, 10mL, 100mL

Log In Initials: MCC 5-26-22
DQO Initials: JKR 5-26-22

Cert Required AK DW
CMDP #

Comments: River Water samples run to ADEC DW certs. Final Report includes COC, Sanitary Survey, Site Photos, EDD. Fecal coliform results show positive growth. Duplicate RPD for Fecal Results shows a recovery within +/- 60% of parent sample, indicating the duplicate falls within QAPP allowed limits (precision calculation of 34.25% recovery). Enterococci samples showed no positive growth, and duplicate matches that result.

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Definitions:	
DUP	Sample Duplicate
LCS/LCSD	Laboratory Control Sample/Laboratory Control Sample Duplicate
MRL	Method Reporting Limit
MB	Method Blank
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
MS/MSD	Matrix Spike/Matrix Spike Duplicate
N/A	Not Applicable
TNTC	Count is Too Numerous To Count
<MDL	Result recovery is below the detectable laboratory limit, listed as the MDL

Data Qualifiers:	
B	The result of both the method blank and the target sample are above the MDL.
D	Sample analysis accomplished through dilution.
J	The reported result is an estimated value above the LOD but below the LOQ, or above the MDL but below the PQL.
U	Result is below the MDL, PQL, LOD, or LOQ
*	LCS/LCSD or Sample DUP fails all Duplicate criteria.
H	Holding time exceeded
E	Exceeds MCL
Q	One or more quality control criteria failed.

General Comments:	
1.0)	Basis: “As Received” = analyzed as received from client; “Dry” = dried prior to being analyzed; “Dry Weight Corrected” = analyzed as received; result corrected for percent moisture.

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Contact	Sarah Apsens, Laura Eldred		
Project	Kanakanak Beach 5/25/2022 Sampling 1	**Collection**	
DW Y/N	Y	Date / time	5/25/2022 14:00
PWS#	None		
		AWL Batch ID:	052522-03-FC
AWL #	AWL-22-01721		
Sample Location	Kanak-052522-001		
AWL ID/ Fraction	AWL-22-01721-001	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	127.2	CFU/100mL	9.09			9.09	SM9222D MF	MCC	5/25/2022 18:26	

Analyst Batching initials/date	MCC 5-27-22
Analyst Reviewer initials/date	MJG 5-27-22

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Client	SOA Bristol Bay Pathogens 2022		
Contact	Sarah Apsens, Laura Eldred		
Project	Kanakanak Beach 5/25/2022 Sampling 1	**Collection**	
DW Y/N	Y	Date / time	5/25/2022 14:00
PWS#	None		
		AWL Batch ID:	052522-01-ENT
AWL #	AWL-22-01721		
Sample Location	Kanak-052522-002		
AWL ID/ Fraction	AWL-22-01721-002	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	<1	MPN/100mL	1			1	ASTMD-6503-99	MCC	5/25/2022 18:59	

Analyst Batching initials/date	MCC 5-27-22
Analyst Reviewer initials/date	MJG 5-27-22

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Client	SOA Bristol Bay Pathogens 2022		
Contact	Sarah Apsens, Laura Eldred		
Project	Kanakanak Beach 5/25/2022 Sampling 1	**Collection**	
DW Y/N	Y	Date / time	5/25/2022 14:00
PWS#	None		
		AWL Batch ID:	052522-03-FC
AWL #	AWL-22-01721		
Sample Location	Kanak-052522-003-DUP		
AWL ID/ Fraction	AWL-22-01721-003	Matrix	AQ

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Fecal Coliform	90	CFU/100mL	10			10	SM9222D MF	MCC	5/25/2022 18:26	

Analyst Batching initials/date MCC 5-27-22

Analyst Reviewer initials/date MJG 5-27-22

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Client	SOA Bristol Bay Pathogens 2022		
Contact	Sarah Apsens, Laura Eldred		
Project	Kanakanak Beach 5/25/2022 Sampling 1	**Collection**	
DW Y/N	Y	Date / time	5/25/2022 14:00
PWS#	None		
		AWL Batch ID:	052522-01-ENT
AWL #	AWL-22-01721		
Sample Location	Kanak-052522-004-DUP		
AWL ID/ Fraction	AWL-22-01721-004	Matrix AQ	

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Analyst	Date/Time	Notes
Enterococci	<1	MPN/100mL	1			1	ASTMD-6503-99	MCC	5/25/2022 18:59	

Analyst Batching initials/date	MCC 5-27-22
Analyst Reviewer initials/date	MJG 5-27-22

AWL Chain of Custody

Custody form MUST be signed
Please provide as much information as possible

Alaska Water Laboratories

Alaska Water Laboratories

AWL-22- 01721

Client/Company Name & Address:	**Public Water System (PWS) ID:**	**AWL Staff**
ADEC - Nonpoint Source Pollution Porgram	**Project Name/ID :** SOA Bristol Bay Pathogens - 2022	**Quote Number** AWL #
	Kanakanak Beach 5/25/2022	
	Turnaround Time (TAT) for Results	**Account #:** Check Credit
Contact Person: **Sarah Apsens, Laura Eldred**	___ **Standard** **X** **Expedited** (prior authorization required)	**Invoice Contact Name & Address & Phone:**
Phone No:	*Specify Requested Due Date if not standard	
Fax No:	**Requested Date for Results:** Email notification within 36 hours	
E-mail:	**Results to STATE: Yes No** **Routine Non-Routine**	
Special Instructions/Requirements:	Specify if REPEAT sample	**PO/Contract No.:**

*** x VOL container for FC and Entero taken - only used if sample container is broken**

***2 additional containers taken at site as Duplicate Samples for this trip**

Kit Preparation/Shipping Charge:

Requested Analysis/Method

	Client Sample Identification (Name, Designation, Location, etc.)	Date Sampled	Time Sampled	Matrix (DW, WW, SO)	No. of Containers	Cl Residual	Fecal Coliform SM 9222D Preservative Lot#___	Enterococci ASTM Preservative Lot#___	MST - Filter and Freeze Preservative Lot#___	Preservative Lot#___	Preservative Lot#___	Preservative Lot#___	State Pt. Sampling ID	Facility ID	Trigger/ Repeat/ Special
1	Kanak-052522-001	5/25/2022	1400		2		x								
2	Kanak-052522-002	5/25/2022	1400		2			x							
3	Kanak-052522-003-DUP	5/25/2022	1400		2		x	x							
4															
5															
6															
7															
8															
9															
10															

Relinquished by:	Date	Time	Received by:	Date	Time
Ben M	5-25-22	1735	MCC	5-25-22	17:35
Relinquished by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Received by:	Date	Time
Name of Sampler: (printed)	Ben Matlock				

Section To Be Completed by AWL

Custody Seal (circle): Intact Broken Absent*

Temperature on arrival: 4.64 °C

Thermo ID RT#1

Recv Notes:

Temp TB Cooler

Ice Frozen Wet

Delivery Method (Circle) Courier USPS/Mail Hand

Alaska Water Laboratories

Bristol Bay Pathogen Testing Program
Sanitary Survey

SITE

Name of Beach	Kanakanak		
Beach Code	Kanak	**Date of sampling**	5/25/22
Latitude N	59° 00.225	**Longitude**	158°32.063

SAMPLES

Sample ID (FC)	Kanakanak-052522-01	Collected Date/Time	5/25/22 — 1400
Sample ID (Entero)	Kanakanak-052522-02	Collected Date/Time	5/25/22 — 1400
Sample ID (MST)		Collected Date/Time	
Replicate ID	Kanakanak-052522-DUP	Collected Date/Time	5/25/22 — 1400
Field Blank ID		Collected Date/Time	

CONDITIONS

Weather Conditions	**Air Temp** 12.0 C	**Water Conditions**
Sunny and Clear	**Wind Direction** SE	Clear
Cloudy/Overcast	**Wind Speed (MPH)** 7	Cloudy/Murky
Rain	**Precipitation in last 24 hrs.** 0 in	Oily Film
Fog	Notes: Calm, gusts up to 7 mpH	Other: Merky - Can see objects 3" under water

Potential Pollution Sources

Activity on Beach	Adults: 0 Children: 0 Dogs: 0 Other: 1 Truck
Water Fowl	Type N/A Estimated Number 0 Other Sources: One Truck + boat trailer parked 20' from the water

Beach and Tidal Conditions

Beach Condition: On Shore Debris? Truck + Boat Trailer In Water Debris? None
On Shore Vegetation (Est %) 10% In Water Vegetation (%) 0
Odors: Y / N Stormwater Pipes: Y / N Fish Processing: Y / N

Tidal Conditions: Low / High Flooding / Ebbing
Tide Height: _____ ft/m
Time of observation: 1400 am/pm

Probe and Onsite Values

Water Temperature: 10.4 C/F Air Temperature: 12.0 C/F
pH: 8.1
Turbidity (Visible): Cloudy/Merky

OTHER COMMENTS OR OBSERVATIONS OF SITE:
All Beach Vegitation was 20-30 fee above water level. Mostly Dry grass + Drift wood. NO boats, people, or pets were seen.

Signature of Surveyor: Ben [signature] **Date/Time** 1420/5-25-22