

Alaska Laboratory AK01000

Client City of Saint Paul Water System

Contact Adrian Dirks

Project Name 2024 RAP City of Saint Paul

AWL # AWL-24-02422

PWS # AK2260286

Please direct any questions regarding the final report to your Project Manager Alex@AKWaterLabs.com or Amanda@AKWaterLabs.com, or call.

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 will be entered into AWL final reports. Full subcontract reports are 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 requires the written approval of the laboratory.

AWL Laboratory Management

Date

Alaska Laboratory #AK01000

Client Project Name	2024 RAP City of Saint Paul	AWL #	AWL-24-02422
Receipt Date and Time	08/28/2024 12:40	Due Date	09/17/2024 16:00
Cooler Temperature (C)	5.7C RT1	Sampler Initials	AD
Sample receipt comments	Sample received by NKM on 08/28/2024 at 5.7C RT1 on frozen ice by courier, NO3 pH<2.		
Log In	VJG 08/28/2024	DQO	BFM 08/28/2024

Samples Received

Sample Location	AWL ID	Collection Date/Time	Analysis Date/Time	Analysis	Notes
Tribal Gov Building	AWL-24-02422-001	08/27/2024 13:15	8/28/24 14:46	SM9223B PA	
TP 1 Saint Paul WS	AWL-24-02422-002	08/27/2024 13:30	8/29/24 11:52	SM4500NO3E-	
Public Works	AWL-24-02422-003	08/27/2024 13:47	09/05/2024 18:43	552.2 HLAA5	552.2 HLAA

Analytical Methods

Analyte	Analytical Method	Comments
Total Coliform, E. Coli	SM9223B Total Coliform PA	
HLAA5	552.2 HLAA5	
Nitrate-Nitrite	SM4500 NO3 E Nitrate-Nitrite	

Certification: Alaska Drinking Water
CMDP Job ID: 675284 NO3 and PA; 676667 HLAA5

Comments:

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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 Limit
MDL: Method Detection Limit
MS/MSD: Matrix Spike/Matrix Spike Duplicate
N/A: Not Applicable
TNTC: Cell count is Too Numerous To Count
<MDL: Result recovery is below the laboratory detectable limit, listed as the MDL.

Data Qualifiers:

B: The result of both the method blank and the target sample were recovered above the MDL.
D: Sample was diluted prior to analysis.
J: The reported result was recovered below the MRL (Method Reporting Limit), but above the MDL (Method Detection Limit), and should be considered an estimate.
U: Result was recovered below the MDL, MRL, LOD, and LOQ.
*: The LCS/LCSD or DUP was recovered outside method specified control limits.
H: Sample was received or analyzed outside of method specified holding time.
E: Sample recovery is equal to or exceeded the MCL.
Q: One or more Quality Control criteria was recovered outside of control limits.

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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Analytical Results

Client City of Saint Paul Water System Project 2024 RAP City of Saint Paul
Contact Adrian Dirks PWS # AK2260286
Project 2024 RAP City of Saint Paul

Sample Location: Tribal Gov Building SPID: SPDS001TCR Collection Date/Time: 08/27/2024 13:15
FCID: DS001
AWL ID/ Fraction: AWL-24-02422-001 Matrix: DW Free Cl Batch ID: 082824-02-PA18

Analyte	Result	Units	MDL	MCL	Flags	DF	Method	Date/Time	Analyst Initials
Total Coliform	Absent	Presence/Absence	1	1		1	Colilert-18 PA	8/28/24 14:46	BFM
E. Coli	Absent	Presence/Absence	1	1		1	Colilert-18 PA	8/28/24 14:46	BFM

Comments:

Sample Location: Public Works SPID: SPDS1DBP2-2 Collection Date/Time: 08/27/2024 13:47
FCID: DS001
AWL ID/ Fraction: AWL-24-02422-003 Matrix FC Sub Lab ID: 810-118525-1

Analyte	Result	Units	MRL	MDL	MCL	DF	Flags	Method	Sub Lab	Analysis Date/Time
Dibromoacetic acid	<0.60	ug/L	1.0	0.60		1		552.2	Eurofins South Bend	09/05/2024 18:43
Dichloroacetic acid	<0.60	ug/L	1.0	0.60		1		552.2	Eurofins South Bend	09/05/2024 18:43
Monobromoacetic acid	<0.70	ug/L	1.0	0.70		1		552.2	Eurofins South Bend	09/05/2024 18:43
Monochloroacetic acid	<1.1	ug/L	2.0	1.1		1		552.2	Eurofins South Bend	09/05/2024 18:43
Trichloroacetic acid	<0.50	ug/L	1.0	0.50		1		552.2	Eurofins South Bend	09/05/2024 18:43
Total Haloacetic Acids 5	<1.100	ug/L	2.000	1.100	60	1		552.2 THAA	Eurofins South Bend	09/05/2024 18:43

Comments:

Sample Location: TP 1 Saint Paul WS SPID: SPTP001 Collection Date/Time: 08/27/2024 13:30
FCID: TP001
AWL ID/ Fraction: AWL-24-02422-002 Matrix: DW Batch ID: 082924-01-NO3

Analyte	Result	Units	MRL	MDL	MCL	DF	Flags	Method	Analyst	Analysis Date/Time
NO3+NO2	0.816	mg/L	0.168	0.056	10	2.00	D	SM4500NO3-E	BKC	8/29/24 11:52

Comments:

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Analysis QC

Nitrate+Nitrite SM4500
NO3E-
Batch ID: 082924-01-NO3

Method Blank

Analyte	MB	Flags	MDL	MRL	CRDL	Analyst	Date/Time
NO3+NO2	0.002		0.028	0.084		BKC	8/29/24 11:52

LCS

Analyte	LCS	Flags	Spike Amount	Percent Recovery	Limits	Analyst	Date/Time
NO3+NO2	0.497		0.498	99.8	90-110	BKC	8/29/24 11:52

Sample Duplicate

Parent ID: AWL-24-02388-001

Analyte	Sample Duplicate	Flags	Parent Sample	RPD	Limits	Analyst	Date/Time
NO3+NO2	0.208		0.206	0.97	≤20	BKC	8/29/24 11:52

Matrix Spike

Parent ID: AWL-24-02388-001

Analyte	Matrix Spike	Flags	Parent Sample	Spike Amount	Percent Recovery	Limits	Analyst	Date/Time
NO3+NO2	0.433		0.206	0.249	94.47	80-120	BKC	8/29/24 11:52

Matrix Spike Duplicate

Parent ID: AWL-24-02388-001

Analyte	Matrix Spike	Flags	Parent Sample	Spike Amount	RPD	Limits	Percent Recovery	Limits	Analyst	Date/Time
NO3+NO2	0.448		0.206	0.249	3.41	≤20	100.5	80-120	BKC	8/29/24 11:52

Matrix Spike 2

Parent ID: AWL-24-02407-002

Analyte	Matrix Spike	Flags	Parent Sample	Spike Amount	Percent Recovery	Limits	Analyst	Date/Time
NO3+NO2	0.389		0.183	0.249	85.67	80-120	BKC	8/29/24 11:52

Matrix Spike Dup 2

Parent ID: AWL-24-02407-002

Analyte	Matrix Spike	Flags	Parent Sample	Spike Amount	RPD	Limits	Percent Recovery	Limits	Analyst	Date/Time
NO3+NO2	0.413		0.183	0.249	5.99	≤20	95.31	80-120	BKC	8/29/24 11:52



AWL Chain of Custody

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



AWL-24- 02422

Client/Company Name & Address: City of Saint Paul Water Plant PO Box 901 Saint Paul Island, AK 99660		PWS ID: AK2260286		Project Name/ID: 2024 RAP City of Saint Paul		AWL Staff Quote Number: 1331 AWL #: [REDACTED]	
Contact Person: Adrian Dirks		Phone No: C. 907-600-4358		Account #: [REDACTED]		Check Credit	
Fax No:		E-mail: adirks@stpaulak.com		Invoice Contact Name & Address & Phone:		<p style="background-color: yellow; text-align: center;">MUST SAMPLE IN AUGUST</p>	
Special Instructions/Requirements:		Requested Date for Results: Yes No		Results to STATE: Yes No		PO/Contract No.:	
<p>*Sample at same site monthly; Sampling location and types are highlighted in yellow.</p>		Specify if REPEAT sample: Routine		Requested Analysis/Method			
<p>Kit Preparation/Shipping Charge:</p>		<p>Client Sample Identification (Name, Designation, Location, etc.)</p>		<p>SM19223B Coliform PA 01171 X 002</p>		<p>SM14500 Nitrate X 002</p>	
<p>1 Tribal Gov Building</p>		<p>Date Sampled: 08/27/24</p>		<p>Time Sampled: 13:15</p>		<p>Matrix (DW, WW, SO): FC 1</p>	
<p>2 TP 1 Saint Paul WS</p>		<p>Date Sampled: 8/27/24</p>		<p>Time Sampled: 13:30</p>		<p>Matrix (DW, WW, SO): AQ 1</p>	
<p>3 Public Works</p>		<p>Date Sampled: 8/27/24</p>		<p>Time Sampled: 13:47</p>		<p>Matrix (DW, WW, SO): DW 1</p>	
4		5		6		7	
8		9		#			
Relinquished by: AD		Date: 08/27/24		Time: 14:50		Received by: NLM	
Relinquished by:		Date:		Time:		Received by:	
Relinquished by:		Date:		Time:		Received by:	
Name of Sampler: (printed)		Adrian Dirks					

RAW

808-82883768

Section To Be Completed by AWL

Custody Seal (circle): **Intact** Broken Absent

Temperature on arrival: **5.7** °C

Thermo ID: **PT1** Recv Notes: **PH < 2**

Temp: **Cooler** Ice: **Frozen** Wet

Delivery Method (Circle): **Courier** USPS/Mail Hand