Laboratory Report of Analysis

To: ADEC-Air & Water Quality
555 Cordova St
Anchorage, AK 99501
907-741-1026

Report Number: **1223136**

Client Project: **Kenai River Metals Monitoring**

Dear Sarah Apsens,

Enclosed are the results of the analytical services performed under the referenced project for the received samples and associated QC as applicable. The samples are certified to meet the requirements of the National Environmental Laboratory Accreditation Conference Standards. Copies of this report and supporting data will be retained in our files for a period of ten years in the event they are required for future reference. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. Any samples submitted to our laboratory will be retained for a maximum of fourteen (14) days from the date of this report unless other archiving requirements were included in the quote.

If there are any questions about the report or services performed during this project, please call Justin at (907) 562-2343. We will be happy to answer any questions or concerns which you may have.

Thank you for using SGS North America Inc. for your analytical services. We look forward to working with you again on any additional analytical needs.

Sincerely,
SGS North America Inc.

Justin Nelson
2022.08.25
18:50:56 -08'00'

Justin Nelson
Project Manager
Justin.Nelson@sgs.com

Date

SGS North America Inc.
200 West Potter Drive, Anchorage, AK 99518
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Case Narrative

SGS Client: **ADEC-Air & Water Quality**
SGS Project: **1223136**
Project Name/Site: **Kenai River Metals Monitoring**
Project Contact: **Sarah Apsens**
22-384

Refer to sample receipt form for information on sample condition.

1222982001DUP (1668859) DUP

2540C- Total Dissolved Solids- The DUP RPD does not meet the QC criteria. The difference of the Parent Sample and the DUP is less than the LOQ.

Revised Report - Results for 200.8 Cu and Zn have been added.

*QC comments may be associated with the field samples found in this report. When applicable, comments will be applied to associated field samples.

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitation of liability, indenmification and jurisdiction issues defined therein.

Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. Any unauthorized alteration, forgery or falsification of the context or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020B, 7470A, 7471B, 8015C, 8021B, 8082A, 8260D, 8270D, 8270D-SIM, 9040C, 9045D, 9056A, 9060A, AK101 and AK102/103). SGS is only certified for the analytes listed on our Drinking Water Certification (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

The following descriptors or qualifiers may be found in your report:

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
B	Indicates the analyte is found in a blank associated with the sample.
CCV/CVA/CVB	Continuing Calibration Verification
CCCV/CVC/CVCA/CVCB	Closing Continuing Calibration Verification
CL	Control Limit
DF	Analytical Dilution Factor
DL	Detection Limit (i.e., maximum method detection limit)
E	The analyte result is above the calibrated range.
GT	Greater Than
IB	Instrument Blank
ICV	Initial Calibration Verification
J	The quantitation is an estimation.
LCS(D)	Laboratory Control Spike (Duplicate)
LLQC/LLIQC	Low Level Quantitation Check
LOD	Limit of Detection (i.e., 1/2 of the LOQ)
LOQ	Limit of Quantitation (i.e., reporting or practical quantitation limit)
LT	Less Than
MB	Method Blank
MS(D)	Matrix Spike (Duplicate)
ND	Indicates the analyte is not detected.
RPD	Relative Percent Difference
TNTC	Too Numerous To Count
U	Indicates the analyte was analyzed for but not detected.

Note: Sample summaries which include a result for "Total Solids" have already been adjusted for moisture content. All DRO/RRO analyses are integrated per SOP.

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
RM 31	1223136001	06/15/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 23	1223136002	06/15/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 70	1223136003	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 70 DUP	1223136004	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 40 DUP	1223136005	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 21.1	1223136006	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 40	1223136007	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 76	1223136008	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 5	1223136009	06/13/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 21	1223136010	06/13/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 31	1223136011	06/15/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 23	1223136012	06/15/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 70	1223136013	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 70 DUP	1223136014	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 40 DUP	1223136015	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 21.1	1223136016	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 40	1223136017	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 76	1223136018	06/14/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 5	1223136019	06/13/2022	06/15/2022	Water (Surface, Eff., Ground)
RM 21	1223136020	06/13/2022	06/15/2022	Water (Surface, Eff., Ground)

Method	Method Description
SM 5310B	Dissolved Organic Carbon
SM21 2340B	Hardness as CaCO3 by ICP-MS
EP200.8	Metals in Drinking Water by ICP-MS DISSO
EP200.8	Metals in Water by 200.8 ICP-MS
SM21 2540C	Total Dissolved Solids SM18 2540C

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Detectable Results Summary

Client Sample ID: **RM 31**
Lab Sample ID: 1223136001

Metals by ICP/MS

Parameter	Result	Units
Calcium	13800	ug/L
Hardness as CaCO3	39.2	mg/L
Magnesium	1170	ug/L
Total Dissolved Solids	26.0	mg/L

Waters Department

Client Sample ID: **RM 23**
Lab Sample ID: 1223136002

Metals by ICP/MS

Parameter	Result	Units
Calcium	13400	ug/L
Hardness as CaCO3	38.1	mg/L
Magnesium	1150	ug/L
Total Dissolved Solids	18.0	mg/L

Waters Department

Client Sample ID: **RM 70**
Lab Sample ID: 1223136003

Metals by ICP/MS

Parameter	Result	Units
Calcium	17500	ug/L
Hardness as CaCO3	48.5	mg/L
Magnesium	1180	ug/L

Client Sample ID: **RM 70 DUP**
Lab Sample ID: 1223136004

Metals by ICP/MS

Parameter	Result	Units
Calcium	17500	ug/L
Hardness as CaCO3	48.6	mg/L
Magnesium	1170	ug/L

Client Sample ID: **RM 40 DUP**
Lab Sample ID: 1223136005

Metals by ICP/MS

Parameter	Result	Units
Calcium	13200	ug/L
Hardness as CaCO3	37.5	mg/L
Magnesium	1110	ug/L
Total Dissolved Solids	23.0	mg/L

Waters Department

Client Sample ID: **RM 21.1**
Lab Sample ID: 1223136006

Metals by ICP/MS

Parameter	Result	Units
Calcium	13200	ug/L
Hardness as CaCO3	37.7	mg/L
Magnesium	1140	ug/L
Total Dissolved Solids	15.0	mg/L

Waters Department

Client Sample ID: **RM 40**
Lab Sample ID: 1223136007

Metals by ICP/MS

Parameter	Result	Units
Calcium	13100	ug/L
Hardness as CaCO3	37.2	mg/L
Magnesium	1080	ug/L
Total Dissolved Solids	10.0	mg/L

Waters Department

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Detectable Results Summary

Client Sample ID: **RM 76**
Lab Sample ID: 1223136008

Metals by ICP/MS

Parameter	Result	Units
Calcium	17300	ug/L
Hardness as CaCO3	48.0	mg/L
Magnesium	1170	ug/L
Total Dissolved Solids	26.0	mg/L

Waters Department

Client Sample ID: **RM 5**
Lab Sample ID: 1223136009

Metals by ICP/MS

Parameter	Result	Units
Calcium	13800	ug/L
Copper	4.43	ug/L
Hardness as CaCO3	46.2	mg/L
Magnesium	2840	ug/L
Zinc	15.1	ug/L
Total Dissolved Solids	85.0	mg/L

Waters Department

Client Sample ID: **RM 21**
Lab Sample ID: 1223136010

Metals by ICP/MS

Parameter	Result	Units
Calcium	13200	ug/L
Hardness as CaCO3	37.6	mg/L
Magnesium	1140	ug/L
Total Dissolved Solids	34.0	mg/L

Waters Department

Client Sample ID: **RM 31**
Lab Sample ID: 1223136011

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	13300	ug/L
Magnesium	970	ug/L
Potassium	801	ug/L
Sodium	1400	ug/L

Client Sample ID: **RM 23**
Lab Sample ID: 1223136012

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	13200	ug/L
Magnesium	960	ug/L
Potassium	812	ug/L
Sodium	1410	ug/L

Client Sample ID: **RM 70**
Lab Sample ID: 1223136013

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	17400	ug/L
Magnesium	1160	ug/L
Potassium	515	ug/L
Sodium	1500	ug/L

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Detectable Results Summary

Client Sample ID: **RM 70 DUP**
Lab Sample ID: 1223136014

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	17500	ug/L
Magnesium	1170	ug/L
Potassium	546	ug/L
Sodium	1540	ug/L
Zinc	15.3	ug/L

Client Sample ID: **RM 40 DUP**
Lab Sample ID: 1223136015

Dissolved Metals by ICP/MS

Parameter	Result	Units
Aluminum	22.4	ug/L
Calcium	13100	ug/L
Magnesium	899	ug/L
Potassium	804	ug/L
Sodium	1310	ug/L

Client Sample ID: **RM 21.1**
Lab Sample ID: 1223136016

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	12900	ug/L
Magnesium	973	ug/L
Potassium	802	ug/L
Sodium	1430	ug/L

Client Sample ID: **RM 40**
Lab Sample ID: 1223136017

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	12900	ug/L
Magnesium	887	ug/L
Potassium	799	ug/L
Sodium	1310	ug/L

Client Sample ID: **RM 76**
Lab Sample ID: 1223136018

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	17300	ug/L
Magnesium	1160	ug/L
Potassium	519	ug/L
Sodium	1480	ug/L
Zinc	17.3	ug/L

Client Sample ID: **RM 5**
Lab Sample ID: 1223136019

Dissolved Metals by ICP/MS

Parameter	Result	Units
Aluminum	63.0	ug/L
Calcium	13200	ug/L
Magnesium	1870	ug/L
Potassium	1340	ug/L
Sodium	9940	ug/L

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Detectable Results Summary

Client Sample ID: **RM 21**
Lab Sample ID: 1223136020

Dissolved Metals by ICP/MS

Parameter	Result	Units
Calcium	12900	ug/L
Magnesium	965	ug/L
Potassium	805	ug/L
Sodium	1460	ug/L
Zinc	10.5	ug/L

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Results of **RM 31**

Client Sample ID: **RM 31**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136001
Lab Project ID: 1223136

Collection Date: 06/15/22 09:40
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13800		500	150	ug/L	1		06/29/22 14:48
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 14:48
Magnesium	1170		50.0	15.0	ug/L	1		06/29/22 14:48
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 14:48

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 14:48
Container ID: 1223136001-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	39.2		5.00	5.00	mg/L	1		06/29/22 14:48

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 14:48
Container ID: 1223136001-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 31**

Client Sample ID: **RM 31**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136001
Lab Project ID: 1223136

Collection Date: 06/15/22 09:40
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 15:51

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 15:51
Container ID: 1223136001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	26.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136001-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 23**

Client Sample ID: **RM 23**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136002
Lab Project ID: 1223136

Collection Date: 06/15/22 10:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13400		500	150	ug/L	1		06/29/22 15:04
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:04
Magnesium	1150		50.0	15.0	ug/L	1		06/29/22 15:04
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:04

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:04
Container ID: 1223136002-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	38.1		5.00	5.00	mg/L	1		06/29/22 15:04

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:04
Container ID: 1223136002-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 23**

Client Sample ID: **RM 23**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136002
Lab Project ID: 1223136

Collection Date: 06/15/22 10:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 16:07

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 16:07
Container ID: 1223136002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	18.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136002-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70**

Client Sample ID: **RM 70**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136003
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	17500		500	150	ug/L	1		06/29/22 15:07
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:07
Magnesium	1180		50.0	15.0	ug/L	1		06/29/22 15:07
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:07

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:07
Container ID: 1223136003-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	48.5		5.00	5.00	mg/L	1		06/29/22 15:07

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:07
Container ID: 1223136003-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70**

Client Sample ID: **RM 70**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136003
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 16:27

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 16:27
Container ID: 1223136003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	10.0	U	10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136003-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70 DUP**

Client Sample ID: **RM 70 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136004
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	17500		500	150	ug/L	1		06/29/22 15:10
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:10
Magnesium	1170		50.0	15.0	ug/L	1		06/29/22 15:10
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:10

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:10
Container ID: 1223136004-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	48.6		5.00	5.00	mg/L	1		06/29/22 15:10

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:10
Container ID: 1223136004-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70 DUP**

Client Sample ID: **RM 70 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136004
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 16:43

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 16:43
Container ID: 1223136004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	10.0	U	10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136004-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40 DUP**

Client Sample ID: **RM 40 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136005
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13200		500	150	ug/L	1		06/29/22 15:13
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:13
Magnesium	1110		50.0	15.0	ug/L	1		06/29/22 15:13
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:13

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:13
Container ID: 1223136005-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	37.5		5.00	5.00	mg/L	1		06/29/22 15:13

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:13
Container ID: 1223136005-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40 DUP**

Client Sample ID: **RM 40 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136005
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 16:58

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 16:58
Container ID: 1223136005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	23.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136005-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21.1**

Client Sample ID: **RM 21.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136006
Lab Project ID: 1223136

Collection Date: 06/14/22 14:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13200		500	150	ug/L	1		06/29/22 15:15
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:15
Magnesium	1140		50.0	15.0	ug/L	1		06/29/22 15:15
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:15

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:15
Container ID: 1223136006-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	37.7		5.00	5.00	mg/L	1		06/29/22 15:15

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:15
Container ID: 1223136006-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21.1**

Client Sample ID: **RM 21.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136006
Lab Project ID: 1223136

Collection Date: 06/14/22 14:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 17:14

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 17:14
Container ID: 1223136006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	15.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136006-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40**

Client Sample ID: **RM 40**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136007
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13100		500	150	ug/L	1		06/29/22 15:18
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:18
Magnesium	1080		50.0	15.0	ug/L	1		06/29/22 15:18
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:18

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:18
Container ID: 1223136007-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	37.2		5.00	5.00	mg/L	1		06/29/22 15:18

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:18
Container ID: 1223136007-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40**

Client Sample ID: **RM 40**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136007
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 17:28

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 17:28
Container ID: 1223136007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	10.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136007-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 76**

Client Sample ID: **RM 76**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136008
Lab Project ID: 1223136

Collection Date: 06/14/22 09:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	17300		500	150	ug/L	1		06/29/22 15:21
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:21
Magnesium	1170		50.0	15.0	ug/L	1		06/29/22 15:21
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:21

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:21
Container ID: 1223136008-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	48.0		5.00	5.00	mg/L	1		06/29/22 15:21

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:21
Container ID: 1223136008-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 76**

Client Sample ID: **RM 76**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136008
Lab Project ID: 1223136

Collection Date: 06/14/22 09:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 17:43

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 17:43
Container ID: 1223136008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	26.0		10.0	3.10	mg/L	1		06/21/22 22:37

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Analyst: NRZ
Analytical Date/Time: 06/21/22 22:37
Container ID: 1223136008-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 5**

Client Sample ID: **RM 5**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136009
Lab Project ID: 1223136

Collection Date: 06/13/22 15:04
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13800		500	150	ug/L	1		06/29/22 15:23
Copper	4.43		3.00	1.00	ug/L	1		06/29/22 15:23
Magnesium	2840		50.0	15.0	ug/L	1		06/29/22 15:23
Zinc	15.1		10.0	3.10	ug/L	1		06/29/22 15:23

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:23
Container ID: 1223136009-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	46.2		5.00	5.00	mg/L	1		06/29/22 15:23

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:23
Container ID: 1223136009-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 5**

Client Sample ID: **RM 5**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136009
Lab Project ID: 1223136

Collection Date: 06/13/22 15:04
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 17:57

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 17:57
Container ID: 1223136009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	85.0		10.0	3.10	mg/L	1		06/20/22 16:07

Batch Information

Analytical Batch: STS7291
Analytical Method: SM21 2540C
Analyst: DMM
Analytical Date/Time: 06/20/22 16:07
Container ID: 1223136009-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21**

Client Sample ID: **RM 21**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136010
Lab Project ID: 1223136

Collection Date: 06/13/22 14:36
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Calcium	13200		500	150	ug/L	1		06/29/22 15:31
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:31
Magnesium	1140		50.0	15.0	ug/L	1		06/29/22 15:31
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:31

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:31
Container ID: 1223136010-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Hardness as CaCO3	37.6		5.00	5.00	mg/L	1		06/29/22 15:31

Batch Information

Analytical Batch: MMS11595
Analytical Method: SM21 2340B
Analyst: AKA
Analytical Date/Time: 06/29/22 15:31
Container ID: 1223136010-D

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21**

Client Sample ID: **RM 21**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136010
Lab Project ID: 1223136

Collection Date: 06/13/22 14:36
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
TOC Average, Dissolved	1.00	U	1.00	0.400	mg/L	1		06/29/22 18:11

Batch Information

Analytical Batch: WTC3204
Analytical Method: SM 5310B
Analyst: EBH
Analytical Date/Time: 06/29/22 18:11
Container ID: 1223136010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Dissolved Solids	34.0		10.0	3.10	mg/L	1		06/20/22 16:07

Batch Information

Analytical Batch: STS7291
Analytical Method: SM21 2540C
Analyst: DMM
Analytical Date/Time: 06/20/22 16:07
Container ID: 1223136010-C

Print Date: 08/25/2022 4:22:57PM

Results of **RM 31**

Client Sample ID: **RM 31**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136011
Lab Project ID: 1223136

Collection Date: 06/15/22 09:40
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:34
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:34
Calcium	13300		500	150	ug/L	1		06/29/22 15:34
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:34
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:34
Magnesium	970		50.0	15.0	ug/L	1		06/29/22 15:34
Potassium	801		500	150	ug/L	1		06/29/22 15:34
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:34
Sodium	1400		500	150	ug/L	1		06/29/22 15:34
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:34

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:34
Container ID: 1223136011-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 23**

Client Sample ID: **RM 23**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136012
Lab Project ID: 1223136

Collection Date: 06/15/22 10:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:37
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:37
Calcium	13200		500	150	ug/L	1		06/29/22 15:37
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:37
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:37
Magnesium	960		50.0	15.0	ug/L	1		06/29/22 15:37
Potassium	812		500	150	ug/L	1		06/29/22 15:37
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:37
Sodium	1410		500	150	ug/L	1		06/29/22 15:37
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:37

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:37
Container ID: 1223136012-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70**

Client Sample ID: **RM 70**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136013
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:40
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:40
Calcium	17400		500	150	ug/L	1		06/29/22 15:40
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:40
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:40
Magnesium	1160		50.0	15.0	ug/L	1		06/29/22 15:40
Potassium	515		500	150	ug/L	1		06/29/22 15:40
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:40
Sodium	1500		500	150	ug/L	1		06/29/22 15:40
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:40

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:40
Container ID: 1223136013-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 70 DUP**

Client Sample ID: **RM 70 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136014
Lab Project ID: 1223136

Collection Date: 06/14/22 10:00
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:42
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:42
Calcium	17500		500	150	ug/L	1		06/29/22 15:42
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:42
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:42
Magnesium	1170		50.0	15.0	ug/L	1		06/29/22 15:42
Potassium	546		500	150	ug/L	1		06/29/22 15:42
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:42
Sodium	1540		500	150	ug/L	1		06/29/22 15:42
Zinc	15.3		10.0	3.10	ug/L	1		06/29/22 15:42

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:42
Container ID: 1223136014-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40 DUP**

Client Sample ID: **RM 40 DUP**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136015
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	22.4		20.0	6.20	ug/L	1		06/29/22 15:45
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:45
Calcium	13100		500	150	ug/L	1		06/29/22 15:45
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:45
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:45
Magnesium	899		50.0	15.0	ug/L	1		06/29/22 15:45
Potassium	804		500	150	ug/L	1		06/29/22 15:45
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:45
Sodium	1310		500	150	ug/L	1		06/29/22 15:45
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:45

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:45
Container ID: 1223136015-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21.1**

Client Sample ID: **RM 21.1**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136016
Lab Project ID: 1223136

Collection Date: 06/14/22 14:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:48
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:48
Calcium	12900		500	150	ug/L	1		06/29/22 15:48
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:48
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:48
Magnesium	973		50.0	15.0	ug/L	1		06/29/22 15:48
Potassium	802		500	150	ug/L	1		06/29/22 15:48
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:48
Sodium	1430		500	150	ug/L	1		06/29/22 15:48
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:48

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:48
Container ID: 1223136016-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 40**

Client Sample ID: **RM 40**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136017
Lab Project ID: 1223136

Collection Date: 06/14/22 10:48
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:50
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:50
Calcium	12900		500	150	ug/L	1		06/29/22 15:50
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:50
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:50
Magnesium	887		50.0	15.0	ug/L	1		06/29/22 15:50
Potassium	799		500	150	ug/L	1		06/29/22 15:50
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:50
Sodium	1310		500	150	ug/L	1		06/29/22 15:50
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:50

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:50
Container ID: 1223136017-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 76**

Client Sample ID: **RM 76**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136018
Lab Project ID: 1223136

Collection Date: 06/14/22 09:30
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 15:53
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:53
Calcium	17300		500	150	ug/L	1		06/29/22 15:53
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:53
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:53
Magnesium	1160		50.0	15.0	ug/L	1		06/29/22 15:53
Potassium	519		500	150	ug/L	1		06/29/22 15:53
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:53
Sodium	1480		500	150	ug/L	1		06/29/22 15:53
Zinc	17.3		10.0	3.10	ug/L	1		06/29/22 15:53

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:53
Container ID: 1223136018-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 5**

Client Sample ID: **RM 5**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136019
Lab Project ID: 1223136

Collection Date: 06/13/22 15:04
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	63.0		20.0	6.20	ug/L	1		06/29/22 15:56
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 15:56
Calcium	13200		500	150	ug/L	1		06/29/22 15:56
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 15:56
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 15:56
Magnesium	1870		50.0	15.0	ug/L	1		06/29/22 15:56
Potassium	1340		500	150	ug/L	1		06/29/22 15:56
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 15:56
Sodium	9940		500	150	ug/L	1		06/29/22 15:56
Zinc	10.0	U	10.0	3.10	ug/L	1		06/29/22 15:56

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 15:56
Container ID: 1223136019-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Results of **RM 21**

Client Sample ID: **RM 21**
Client Project ID: **Kenai River Metals Monitoring**
Lab Sample ID: 1223136020
Lab Project ID: 1223136

Collection Date: 06/13/22 14:36
Received Date: 06/15/22 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Dissolved Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	20.0	U	20.0	6.20	ug/L	1		06/29/22 14:59
Cadmium	0.500	U	0.500	0.150	ug/L	1		06/29/22 14:59
Calcium	12900		500	150	ug/L	1		06/29/22 14:59
Copper	3.00	U	3.00	1.00	ug/L	1		06/29/22 14:59
Lead	2.00	U	2.00	0.500	ug/L	1		06/29/22 14:59
Magnesium	965		50.0	15.0	ug/L	1		06/29/22 14:59
Potassium	805		500	150	ug/L	1		06/29/22 14:59
Selenium	5.00	U	5.00	1.50	ug/L	1		06/29/22 14:59
Sodium	1460		500	150	ug/L	1		06/29/22 14:59
Zinc	10.5		10.0	3.10	ug/L	1		06/29/22 14:59

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Analyst: AKA
Analytical Date/Time: 06/29/22 14:59
Container ID: 1223136020-B

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 06/28/22 12:22
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

Print Date: 08/25/2022 4:22:57PM

Method Blank

Blank ID: MB for HBN 1838907 [MXX/35201]
Blank Lab ID: 1670214

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1223136001, 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008, 1223136009, 1223136010, 1223136011, 1223136012, 1223136013, 1223136014, 1223136015, 1223136016, 1223136017, 1223136018, 1223136019, 1223136020

Results by **EP200.8**

Parameter	Results	LOQ/CL	DL	Units
Aluminum	10.0U	20.0	6.20	ug/L
Cadmium	0.250U	0.500	0.150	ug/L
Calcium	250U	500	150	ug/L
Copper	1.50U	3.00	1.00	ug/L
Lead	1.00U	2.00	0.500	ug/L
Magnesium	25.0U	50.0	15.0	ug/L
Potassium	250U	500	150	ug/L
Selenium	2.50U	5.00	1.50	ug/L
Sodium	250U	500	150	ug/L
Zinc	5.75J	10.0	3.10	ug/L

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: AKA
Analytical Date/Time: 6/29/2022 2:40:00PM

Prep Batch: MXX35201
Prep Method: E200.2
Prep Date/Time: 6/28/2022 12:22:53PM
Prep Initial Wt./Vol.: 20 mL
Prep Extract Vol: 50 mL

SGS North America Inc.
200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

Member of SGS Group

Blank Spike Summary

Blank Spike ID: LCS for HBN 1223136 [MXX35201]
Blank Spike Lab ID: 1670215
Date Analyzed: 06/29/2022 14:43

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223136001, 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008, 1223136009, 1223136010, 1223136011, 1223136012, 1223136013, 1223136014, 1223136015, 1223136016, 1223136017, 1223136018, 1223136019, 1223136020

Results by **EP200.8**

	Blank Spike (ug/L)			
Parameter	Spike	Result	Rec (%)	CL
Aluminum	1000	1000	100	(85-115)
Cadmium	100	100	100	(85-115)
Calcium	10000	9980	100	(85-115)
Copper	1000	1010	101	(85-115)
Lead	1000	1010	101	(85-115)
Magnesium	10000	10100	101	(85-115)
Potassium	10000	10000	100	(85-115)
Selenium	1000	985	99	(85-115)
Sodium	10000	10100	101	(85-115)
Zinc	1000	1040	104	(85-115)

Batch Information

Analytical Batch: **MMS11595**
Analytical Method: **EP200.8**
Instrument: **P7 Agilent 7800**
Analyst: **AKA**

Prep Batch: **MXX35201**
Prep Method: **E200.2**
Prep Date/Time: **06/28/2022 12:22**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 08/25/2022 4:23:02PM

Matrix Spike Summary

Original Sample ID: 1670212
MS Sample ID: 1670217 MS
MSD Sample ID:

Analysis Date: 06/29/2022 14:48
Analysis Date: 06/29/2022 14:51
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223136001, 1223136020

Results by **EP200.8**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	432	1000	1460	103				70-130		
Cadmium	0.250U	100	99.5	100				70-130		
Calcium	13800	10000	22900	91				70-130		
Copper	1.50U	1000	1000	100				70-130		
Lead	1.00U	1000	1030	103				70-130		
Magnesium	1170	10000	11100	99				70-130		
Potassium	957	10000	10900	100				70-130		
Selenium	2.50U	1000	974	97				70-130		
Sodium	1480	10000	11400	99				70-130		
Zinc	5.00U	1000	1020	102				70-130		

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: AKA
Analytical Date/Time: 6/29/2022 2:51:00PM

Prep Batch: MXX35201
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 6/28/2022 12:22:53PM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 08/25/2022 4:23:04PM

Matrix Spike Summary

Original Sample ID: 1670213
MS Sample ID: 1670218 MS
MSD Sample ID:

Analysis Date: 06/29/2022 14:59
Analysis Date: 06/29/2022 15:02
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008, 1223136009, 1223136010, 1223136011, 1223136012, 1223136013, 1223136014, 1223136015, 1223136016, 1223136017, 1223136018, 1223136019, 1223136020

Results by **EP200.8**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Aluminum	12.2J	1000	1020	100				70-130		
Cadmium	0.250U	100	100	100				70-130		
Calcium	12900	10000	22700	98				70-130		
Copper	1.50U	1000	1010	101				70-130		
Lead	1.00U	1000	1030	103				70-130		
Magnesium	965	10000	11000	101				70-130		
Potassium	805	10000	10900	101				70-130		
Selenium	2.50U	1000	988	99				70-130		
Sodium	1460	10000	11500	100				70-130		
Zinc	10.5	1000	1030	102				70-130		

Batch Information

Analytical Batch: MMS11595
Analytical Method: EP200.8
Instrument: P7 Agilent 7800
Analyst: AKA
Analytical Date/Time: 6/29/2022 3:02:00PM

Prep Batch: MXX35201
Prep Method: DW Digest for Metals on ICP-MS
Prep Date/Time: 6/28/2022 12:22:53PM
Prep Initial Wt./Vol.: 20.00mL
Prep Extract Vol: 50.00mL

Print Date: 08/25/2022 4:23:04PM

Method Blank

Blank ID: MB for HBN 1838181 [STS/7291]
Blank Lab ID: 1668855

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1223136009, 1223136010

Results by **SM21 2540C**

Parameter	Results	LOQ/CL	DL	Units
Total Dissolved Solids	5.00U	10.0	3.10	mg/L

Batch Information

Analytical Batch: STS7291
Analytical Method: SM21 2540C
Instrument:
Analyst: DMM
Analytical Date/Time: 6/20/2022 4:07:53PM

Print Date: 08/25/2022 4:23:09PM

Duplicate Sample Summary

Original Sample ID: 1222982001
Duplicate Sample ID: 1668859
QC for Samples:

Analysis Date: 06/20/2022 16:07
Matrix: Drinking Water

Results by **SM21 2540C**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Dissolved Solids	134	142	mg/L	5.80*	(< 5)

Batch Information

Analytical Batch: STS7291
Analytical Method: SM21 2540C
Instrument:
Analyst: DMM

Print Date: 08/25/2022 4:23:10PM

Duplicate Sample Summary

Original Sample ID: 1223057001
Duplicate Sample ID: 1668860
QC for Samples:
1223136009, 1223136010

Analysis Date: 06/20/2022 16:07
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540C**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Dissolved Solids	484	475	mg/L	1.90	(< 5)

Batch Information

Analytical Batch: STS7291
Analytical Method: SM21 2540C
Instrument:
Analyst: DMM

Print Date: 08/25/2022 4:23:10PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1223136 [STS7291]
Blank Spike Lab ID: 1668856
Date Analyzed: 06/20/2022 16:07

Spike Duplicate ID: LCSD for HBN 1223136 [STS7291]
Spike Duplicate Lab ID: 1668857
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223136009, 1223136010

Results by **SM21 2540C**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Dissolved Solids	333	315	95	333	313	94	(75-125)	0.64	(< 5)

Batch Information

Analytical Batch: **STS7291**
Analytical Method: **SM21 2540C**
Instrument:
Analyst: **DMM**

Print Date: 08/25/2022 4:23:11PM

Method Blank

Blank ID: MB for HBN 1838256 [STS/7296]
Blank Lab ID: 1669142

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1223136001, 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008

Results by **SM21 2540C**

Parameter	Results	LOQ/CL	DL	Units
Total Dissolved Solids	5.00U	10.0	3.10	mg/L

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Instrument:
Analyst: NRZ
Analytical Date/Time: 6/21/2022 10:37:00PM

Print Date: 08/25/2022 4:23:14PM

Duplicate Sample Summary

Original Sample ID: 1223053001
Duplicate Sample ID: 1669145
QC for Samples:

Analysis Date: 06/21/2022 22:37
Matrix: Drinking Water

Results by **SM21 2540C**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Dissolved Solids	282	280	mg/L	0.71	(< 5)

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Instrument:
Analyst: NRZ

Print Date: 08/25/2022 4:23:15PM

Duplicate Sample Summary

Original Sample ID: 1223073001
Duplicate Sample ID: 1669146

Analysis Date: 06/21/2022 22:37
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1223136001, 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008

Results by **SM21 2540C**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Dissolved Solids	612	599	mg/L	2.10	(< 5)

Batch Information

Analytical Batch: STS7296
Analytical Method: SM21 2540C
Instrument:
Analyst: NRZ

Print Date: 08/25/2022 4:23:15PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1223136 [STS7296]
Blank Spike Lab ID: 1669143
Date Analyzed: 06/21/2022 22:37

Spike Duplicate ID: LCSD for HBN 1223136 [STS7296]
Spike Duplicate Lab ID: 1669144
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1223136001, 1223136002, 1223136003, 1223136004, 1223136005, 1223136006, 1223136007, 1223136008

Results by **SM21 2540C**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Dissolved Solids	333	291	88	333	300	90	(75-125)	3.00	(< 5)

Batch Information

Analytical Batch: **STS7296**
Analytical Method: **SM21 2540C**
Instrument:
Analyst: **NRZ**

Print Date: 08/25/2022 4:23:16PM

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Revised Report Revision 1223136

Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Page 1 of 1

Section 1

CLIENT: Alaska Department of Environmental Conservation

CONTACT: Sarah Apsens

PHONE #: 907 741 1026

PROJECT NAME: Kenai River Metals Monitoring

PROJECT/ PWSID/ PERMIT#:

REPORTS TO: Sarah Apsens

E-MAIL: sarah.apsens@alaska.gov

Profile #: 366978 QM

INVOICE TO: sarah.apsens@alaska.gov, dec.water.contracts@alaska.gov

QUOTE #: NTP 22*384

P.O. #: Term contract #18-220-20-2

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	DOC 530B	TDS 2540C	200.8 metals 2340B Hardness	200.8 dissolved metals							REMARKS/LOC ID
							HNO3										
							Analysis*										
1 AD 11 AB	RM 31	6/15/22	9:40	W	4	Grab	X	X	X	X							
2 AD 12 AB	RM 23	6/15/22	10:30				X	X	X	X							
3 AD 13 AB	RM 70	6/14/22	10:00				X	X	X	X							
4 AD 14 AB	RM 70 DUP	6/14/22	10:00				X	X	X	X							
5 AD 15 AB	RM 40 DUP	6/14/22	10:48				X	X	X	X							
6 AD 16 AB	RM 21.1	6/14/22	14:30				X	X	X	X							
7 AD 17 AB	RM 40	6/14/22	10:48				X	X	X	X							
8 AD 18 AB	RM 76	6/14/22	9:30				X	X	X	X							
9 AD 19 AB	RM 5	6/13/22	15:04				X	X	X	X							
10 AD 20 AB	RM 21	6/13/22	14:36				X	X	X	X							

NOTE: *The following analyses require specific method and/or compound list: BTEX, Metals, PFAS

Section 5

Relinquished By:	Date	Time	Received By:
(1)	6/15/22	12:00	
(2)			
(3)			
(4)	6/15/22	16:34	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.6 D59

or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery[ ] Commerical Delivery [✓]

http://www.sgs.com/terms-and-conditions

AIRBILL 10031006

I hereby declare that the goods contained herein do not contain dangerous goods.

Signed..... Date .....

Grant Aviation
6420 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
Freephone: 1 (888) 359-4726
Email: res@flygrant.com
Web: http://www.flygrant.com/

GRANT AVIATION

FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: Jun 15 22 1:40 PM

Accepted: Wed, Jun 15 22 12:34:00 PM

Receiver: SGS ATTN ALLIE LAMBE
907-550-3217

Sender: Alaska Department of Envionmental Conservation
907-741-1026

Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	65	-	-	$48.94
				Total Tax:	$3.06
				Total Payments made:	$52.00
				Total Unpaid:	**$0.00**

Received in good condition by: .....

CUSTOMER COPY

AIRBILL 10031006

I hereby declare that the goods contained herein do not contain dangerous goods.

Signed..... Date .....

Grant Aviation
6420 Kulis Dr. Anchorage, AK 99502
Phone: 1 (888) 359-4726
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Description & Comment	Quan.	Wgt.	Handle Fee	Hazmat Fee	Total
Standard Freight	2	65	-	-	$48.94
TAX: Federal Excise Tax					$3.06
				Total Payments made:	$52.00
				Total Unpaid:	**$0.00**

TERMS AND CONDITIONS

Consignemnt Note Text

Alert Expeditors Inc. **#419939**

Citywide Delivery • 440-3351
8421 Flamingo Drive • Anchorage, Alaska 99502

Date 6/15/22
From [redacted] ADEC
To 565 Gaus 12231026

Collect	Prepay	Advance Charges
Job # AKNJ	PO# [redacted]	

Sample

Shipped Signature

e-Sample Receipt Form

Revised Report - Revision 1

SGS Workorder #: 1223136 | 1223136

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		*Note:* Temperature and COC seal information is found on the chain of custody form
DOD only: Did all sample coolers have a corresponding COC?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note containers received with ice:		
Identify any containers received at non-compliant temperature: *(Use form FS-0029 if more space is needed)*		
Holding Time / Documentation / Sample Condition Requirements		*Note:* Refer to form F-083 "Sample Guide" for specific holding times and sample containers.
Were samples received within analytical holding time?	Yes	
Do sample labels match COC? Record discrepancies. *Note: If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC.*	Yes	
Were analytical requests clear? *(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)*	Yes	
Were proper containers (type/mass/volume/preservative)used? Note: Exemption for metals analysis by 200.8/6020 in water.	Yes	
Volatile Analysis Requirements (VOC, GRO, LL-Hg, etc.)		
Were all soil VOAs received with a corresponding % solids container?	N/A	
Were Trip Blanks (e.g., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (e.g., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with Methanol+BFB?	N/A	

Note to Client: Any "No", answer above indicates non-compliance with standard procedures and may impact data quality.

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1223136001-A	No Preservative Required	OK
1223136001-B	No Preservative Required	OK
1223136001-C	No Preservative Required	OK
1223136001-D	HNO3 to pH < 2	OK
1223136002-A	No Preservative Required	OK
1223136002-B	No Preservative Required	OK
1223136002-C	No Preservative Required	OK
1223136002-D	HNO3 to pH < 2	OK
1223136003-A	No Preservative Required	OK
1223136003-B	No Preservative Required	OK
1223136003-C	No Preservative Required	OK
1223136003-D	HNO3 to pH < 2	OK
1223136004-A	No Preservative Required	OK
1223136004-B	No Preservative Required	OK
1223136004-C	No Preservative Required	OK
1223136004-D	HNO3 to pH < 2	OK
1223136005-A	No Preservative Required	OK
1223136005-B	No Preservative Required	OK
1223136005-C	No Preservative Required	OK
1223136005-D	HNO3 to pH < 2	OK
1223136006-A	No Preservative Required	OK
1223136006-B	No Preservative Required	OK
1223136006-C	No Preservative Required	OK
1223136006-D	HNO3 to pH < 2	OK
1223136007-A	No Preservative Required	OK
1223136007-B	No Preservative Required	OK
1223136007-C	No Preservative Required	OK
1223136007-D	HNO3 to pH < 2	OK
1223136008-A	No Preservative Required	OK
1223136008-B	No Preservative Required	OK
1223136008-C	No Preservative Required	OK
1223136008-D	HNO3 to pH < 2	OK
1223136009-A	No Preservative Required	OK
1223136009-B	No Preservative Required	OK
1223136009-C	No Preservative Required	OK
1223136009-D	HNO3 to pH < 2	OK
1223136010-A	No Preservative Required	OK
1223136010-B	No Preservative Required	OK
1223136010-C	No Preservative Required	OK
1223136010-D	HNO3 to pH < 2	OK
1223136011-A	No Preservative Required	OK
1223136011-B	No Preservative Required	OK
1223136012-A	No Preservative Required	OK
1223136012-B	No Preservative Required	OK
1223136013-A	No Preservative Required	OK
1223136013-B	No Preservative Required	OK
1223136014-A	No Preservative Required	OK
1223136014-B	No Preservative Required	OK
1223136015-A	No Preservative Required	OK
1223136015-B	No Preservative Required	OK
1223136016-A	No Preservative Required	OK
1223136016-B	No Preservative Required	OK
1223136017-A	No Preservative Required	OK
1223136017-B	No Preservative Required	OK
1223136018-A	No Preservative Required	OK
1223136018-B	No Preservative Required	OK
1223136019-A	No Preservative Required	OK
1223136019-B	No Preservative Required	OK
1223136020-A	No Preservative Required	OK
1223136020-B	No Preservative Required	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

Containers for bacteriological, low level mercury and VOA vials are not opened prior to analysis and will be assigned condition code OK unless evidence indicates than an inappropriate container was submitted.

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM - The container was received damaged.
FR - The container was received frozen and not usable for Bacteria or BOD analyses.
IC - The container provided for microbiology analysis was not a laboratory-supplied, pre-sterilized container and therefore was not suitable for analysis.
NC- The container provided was not preserved or was under-preserved. The method does not allow for additional preservative added after collection.
PA - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt and the container is now at the correct pH. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
PH - The container was received outside of the acceptable pH for the analysis requested. Preservative was added upon receipt, but was insufficient to bring the container to the correct pH for the analysis requested. See the Sample Receipt Form for details on the amount and lot # of the preservative added.
QN - Insufficient sample quantity provided.