

Laboratory Report of Analysis

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

Report Number: **1225452**

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
 Project Manager
 Justin.Nelson@sgs.com

Date

Case Narrative

SGS Client: **ADEC-Air & Water Quality**
SGS Project: **1225452**
Project Name/Site: **Kenai River Metals Monitoring**
Project Contact: **Sarah Apsens**

Refer to sample receipt form for information on sample condition.

RM 19.1 (1225452034) PS

200.8 - B-flagged for Zinc failure in the MB. Sample concentration not less than the LOQ or greater than 5 times the MB concentration.

Revised Report - Dissolved Metals have been reanalyzed, the reanalysis is reported.

*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, indemnification 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.

Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|-----------------|-------------------------------|
| RM 70 | 1225452001 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 70 DUP | 1225452002 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82.1 | 1225452003 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82.1 DUP | 1225452004 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 76 | 1225452005 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82 | 1225452006 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| Field Blank | 1225452007 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 20.75 | 1225452008 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19 | 1225452009 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 40 | 1225452010 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 70 | 1225452011 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 70 DUP | 1225452012 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82.1 | 1225452013 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82.1 DUP | 1225452014 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 76 | 1225452015 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 82 | 1225452016 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| Field Blank | 1225452017 | 09/08/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 20.75 | 1225452018 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19 | 1225452019 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 40 | 1225452020 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 12.75 | 1225452021 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 31 | 1225452022 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 21 | 1225452023 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19.1 | 1225452024 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19.1 DUP | 1225452025 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 21.1 | 1225452026 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 5 | 1225452027 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 10.1 | 1225452028 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 23 | 1225452029 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 40 DUP | 1225452030 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 12.75 | 1225452031 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 31 | 1225452032 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 21 | 1225452033 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19.1 | 1225452034 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 19.1 DUP | 1225452035 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 21.1 | 1225452036 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 5 | 1225452037 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 10.1 | 1225452038 | 09/07/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| RM 23 | 1225452039 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |

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Sample Summary

| <u>Client Sample ID</u> | <u>Lab Sample ID</u> | <u>Collected</u> | <u>Received</u> | <u>Matrix</u> |
|-------------------------|----------------------|------------------|-----------------|-------------------------------|
| RM 40 DUP | 1225452040 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |
| Disposal | 1225452041 | 09/06/2022 | 09/09/2022 | Water (Surface, Eff., Ground) |

| <u>Method</u> | <u>Method Description</u> |
|---------------|--|
| 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 70**
 Lab Sample ID: 1225452001

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13800 | ug/L |
| Hardness as CaCO3 | 39.8 | mg/L |
| Magnesium | 1300 | ug/L |
| Zinc | 40.6 | ug/L |
| Total Dissolved Solids | 57.0 | mg/L |

Waters Department

Client Sample ID: **RM 70 DUP**
 Lab Sample ID: 1225452002

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13900 | ug/L |
| Hardness as CaCO3 | 40.1 | mg/L |
| Magnesium | 1280 | ug/L |
| Zinc | 39.2 | ug/L |
| Total Dissolved Solids | 65.0 | mg/L |

Waters Department

Client Sample ID: **RM 82.1**
 Lab Sample ID: 1225452003

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13700 | ug/L |
| Hardness as CaCO3 | 39.3 | mg/L |
| Magnesium | 1220 | ug/L |
| Zinc | 76.4 | ug/L |
| Total Dissolved Solids | 61.0 | mg/L |

Waters Department

Client Sample ID: **RM 82.1 DUP**
 Lab Sample ID: 1225452004

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13600 | ug/L |
| Hardness as CaCO3 | 39.0 | mg/L |
| Magnesium | 1240 | ug/L |
| Zinc | 41.2 | ug/L |
| Total Dissolved Solids | 54.0 | mg/L |

Waters Department

Client Sample ID: **RM 76**
 Lab Sample ID: 1225452005

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13700 | ug/L |
| Hardness as CaCO3 | 39.2 | mg/L |
| Magnesium | 1200 | ug/L |
| Zinc | 30.8 | ug/L |
| Total Dissolved Solids | 64.0 | mg/L |

Waters Department

Client Sample ID: **RM 82**
 Lab Sample ID: 1225452006

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------------|---------------|--------------|
| Calcium | 13400 | ug/L |
| Hardness as CaCO3 | 38.2 | mg/L |
| Magnesium | 1180 | ug/L |
| Zinc | 27.0 | ug/L |
| Total Dissolved Solids | 60.0 | mg/L |

Waters Department

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Detectable Results Summary

 Client Sample ID: **Field Blank**

Lab Sample ID: 1225452007

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Zinc | 93.7 | ug/L |

 Client Sample ID: **RM 20.75**

Lab Sample ID: 1225452008

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10900 | ug/L |
| Hardness as CaCO ₃ | 31.7 | mg/L |
| Magnesium | 1120 | ug/L |
| Zinc | 94.1 | ug/L |
| Total Dissolved Solids | 49.0 | mg/L |

Waters Department

 Client Sample ID: **RM 19**

Lab Sample ID: 1225452009

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10900 | ug/L |
| Hardness as CaCO ₃ | 41.0 | mg/L |
| Magnesium | 3340 | ug/L |
| Zinc | 133 | ug/L |
| TOC Average, Dissolved | 14.4 | mg/L |
| Total Dissolved Solids | 84.0 | mg/L |

Waters Department

 Client Sample ID: **RM 40**

Lab Sample ID: 1225452010

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 11000 | ug/L |
| Hardness as CaCO ₃ | 31.6 | mg/L |
| Magnesium | 1030 | ug/L |
| Zinc | 60.3 | ug/L |
| Total Dissolved Solids | 39.0 | mg/L |

Waters Department

 Client Sample ID: **RM 70**

Lab Sample ID: 1225452011

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 16300 | ug/L |
| Magnesium | 1190 | ug/L |
| Potassium | 580 | ug/L |
| Sodium | 1380 | ug/L |
| Zinc | 54.8 | ug/L |

 Client Sample ID: **RM 70 DUP**

Lab Sample ID: 1225452012

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 16400 | ug/L |
| Magnesium | 1180 | ug/L |
| Potassium | 576 | ug/L |
| Sodium | 1340 | ug/L |
| Zinc | 44.0 | ug/L |

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Detectable Results Summary

 Client Sample ID: **RM 82.1**

Lab Sample ID: 1225452013

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 16100 | ug/L |
| Magnesium | 1170 | ug/L |
| Potassium | 583 | ug/L |
| Sodium | 1300 | ug/L |
| Zinc | 40.0 | ug/L |

 Client Sample ID: **RM 82.1 DUP**

Lab Sample ID: 1225452014

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 16100 | ug/L |
| Magnesium | 1170 | ug/L |
| Potassium | 573 | ug/L |
| Sodium | 1300 | ug/L |
| Zinc | 71.3 | ug/L |

 Client Sample ID: **RM 76**

Lab Sample ID: 1225452015

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 16200 | ug/L |
| Magnesium | 1170 | ug/L |
| Potassium | 579 | ug/L |
| Sodium | 1290 | ug/L |
| Zinc | 46.5 | ug/L |

 Client Sample ID: **RM 82**

Lab Sample ID: 1225452016

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Aluminum | 31.7 | ug/L |
| Calcium | 16000 | ug/L |
| Copper | 88.5 | ug/L |
| Magnesium | 154 | ug/L |
| Magnesium | 1160 | ug/L |
| Potassium | 595 | ug/L |
| Sodium | 2100 | ug/L |
| Sodium | 1350 | ug/L |
| Zinc | 46.4 | ug/L |

 Client Sample ID: **Field Blank**

Lab Sample ID: 1225452017

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Zinc | 58.4 | ug/L |

 Client Sample ID: **RM 20.75**

Lab Sample ID: 1225452018

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12800 | ug/L |
| Magnesium | 1000 | ug/L |
| Potassium | 864 | ug/L |
| Sodium | 1300 | ug/L |
| Zinc | 43.8 | ug/L |

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Detectable Results Summary

Client Sample ID: **RM 19**
 Lab Sample ID: 1225452019
Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 13000 | ug/L |
| Magnesium | 3270 | ug/L |
| Potassium | 1210 | ug/L |
| Sodium | 3430 | ug/L |
| Zinc | 37.8 | ug/L |

Client Sample ID: **RM 40**
 Lab Sample ID: 1225452020
Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12800 | ug/L |
| Magnesium | 939 | ug/L |
| Potassium | 852 | ug/L |
| Sodium | 1250 | ug/L |
| Zinc | 40.8 | ug/L |

Client Sample ID: **RM 12.75**
 Lab Sample ID: 1225452021
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 11200 | ug/L |
| Hardness as CaCO ₃ | 32.9 | mg/L |
| Magnesium | 1170 | ug/L |
| Zinc | 85.4 | ug/L |
| Total Dissolved Solids | 41.0 | mg/L |

Waters Department

Client Sample ID: **RM 31**
 Lab Sample ID: 1225452022
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 11500 | ug/L |
| Hardness as CaCO ₃ | 33.5 | mg/L |
| Magnesium | 1190 | ug/L |
| Zinc | 70.9 | ug/L |
| TOC Average, Dissolved | 1.00 | mg/L |
| Total Dissolved Solids | 41.0 | mg/L |

Waters Department

Client Sample ID: **RM 21**
 Lab Sample ID: 1225452023
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10800 | ug/L |
| Hardness as CaCO ₃ | 31.7 | mg/L |
| Magnesium | 1120 | ug/L |
| Zinc | 44.7 | ug/L |
| Total Dissolved Solids | 45.0 | mg/L |

Waters Department

Client Sample ID: **RM 19.1**
 Lab Sample ID: 1225452024
Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10800 | ug/L |
| Hardness as CaCO ₃ | 31.7 | mg/L |
| Magnesium | 1120 | ug/L |
| Zinc | 72.1 | ug/L |
| Total Dissolved Solids | 51.0 | mg/L |

Waters Department

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Detectable Results Summary

 Client Sample ID: **RM 19.1 DUP**

Lab Sample ID: 1225452025

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10800 | ug/L |
| Hardness as CaCO ₃ | 31.5 | mg/L |
| Magnesium | 1110 | ug/L |
| Zinc | 13.6 | ug/L |
| Total Dissolved Solids | 51.0 | mg/L |

Waters Department

 Client Sample ID: **RM 21.1**

Lab Sample ID: 1225452026

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10700 | ug/L |
| Hardness as CaCO ₃ | 31.3 | mg/L |
| Magnesium | 1100 | ug/L |
| Zinc | 70.9 | ug/L |
| Total Dissolved Solids | 48.0 | mg/L |

Waters Department

 Client Sample ID: **RM 5**

Lab Sample ID: 1225452027

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10600 | ug/L |
| Hardness as CaCO ₃ | 32.6 | mg/L |
| Magnesium | 1470 | ug/L |
| Zinc | 76.0 | ug/L |
| TOC Average, Dissolved | 2.73 | mg/L |
| Total Dissolved Solids | 48.0 | mg/L |

Waters Department

 Client Sample ID: **RM 10.1**

Lab Sample ID: 1225452028

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 11000 | ug/L |
| Hardness as CaCO ₃ | 32.0 | mg/L |
| Magnesium | 1110 | ug/L |
| Zinc | 69.9 | ug/L |
| Total Dissolved Solids | 47.0 | mg/L |

Waters Department

 Client Sample ID: **RM 23**

Lab Sample ID: 1225452029

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 11200 | ug/L |
| Hardness as CaCO ₃ | 32.6 | mg/L |
| Magnesium | 1120 | ug/L |
| Zinc | 62.9 | ug/L |
| Total Dissolved Solids | 43.0 | mg/L |

Waters Department

 Client Sample ID: **RM 40 DUP**

Lab Sample ID: 1225452030

Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|-------------------------------|---------------|--------------|
| Calcium | 10700 | ug/L |
| Hardness as CaCO ₃ | 30.9 | mg/L |
| Magnesium | 1030 | ug/L |
| Zinc | 107 | ug/L |
| Total Dissolved Solids | 39.0 | mg/L |

Waters Department

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Detectable Results Summary

 Client Sample ID: **RM 12.75**

Lab Sample ID: 1225452031

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12900 | ug/L |
| Magnesium | 1030 | ug/L |
| Potassium | 864 | ug/L |
| Sodium | 1360 | ug/L |
| Zinc | 35.3 | ug/L |

 Client Sample ID: **RM 31**

Lab Sample ID: 1225452032

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 13400 | ug/L |
| Magnesium | 1070 | ug/L |
| Potassium | 886 | ug/L |
| Sodium | 1370 | ug/L |
| Zinc | 46.7 | ug/L |

 Client Sample ID: **RM 21**

Lab Sample ID: 1225452033

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12900 | ug/L |
| Magnesium | 1030 | ug/L |
| Potassium | 869 | ug/L |
| Sodium | 1360 | ug/L |
| Zinc | 46.4 | ug/L |

 Client Sample ID: **RM 19.1**

Lab Sample ID: 1225452034

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12900 | ug/L |
| Magnesium | 1010 | ug/L |
| Potassium | 867 | ug/L |
| Sodium | 1300 | ug/L |
| Zinc | 34.7 | ug/L |

 Client Sample ID: **RM 19.1 DUP**

Lab Sample ID: 1225452035

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 13000 | ug/L |
| Magnesium | 1010 | ug/L |
| Potassium | 865 | ug/L |
| Sodium | 1290 | ug/L |
| Zinc | 37.3 | ug/L |

 Client Sample ID: **RM 21.1**

Lab Sample ID: 1225452036

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12700 | ug/L |
| Magnesium | 1010 | ug/L |
| Potassium | 847 | ug/L |
| Sodium | 1310 | ug/L |
| Zinc | 57.8 | ug/L |

Print Date: 11/02/2022 12:02:13PM

Detectable Results Summary

 Client Sample ID: **RM 5**

Lab Sample ID: 1225452037

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Aluminum | 21.4 | ug/L |
| Calcium | 12200 | ug/L |
| Magnesium | 1220 | ug/L |
| Potassium | 953 | ug/L |
| Sodium | 3220 | ug/L |
| Zinc | 42.5 | ug/L |

 Client Sample ID: **RM 10.1**

Lab Sample ID: 1225452038

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 13100 | ug/L |
| Magnesium | 1030 | ug/L |
| Potassium | 875 | ug/L |
| Sodium | 1320 | ug/L |
| Zinc | 34.8 | ug/L |

 Client Sample ID: **RM 23**

Lab Sample ID: 1225452039

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 13200 | ug/L |
| Magnesium | 1030 | ug/L |
| Potassium | 881 | ug/L |
| Sodium | 1340 | ug/L |
| Zinc | 29.2 | ug/L |

 Client Sample ID: **RM 40 DUP**

Lab Sample ID: 1225452040

Dissolved Metals by ICP/MS

| <u>Parameter</u> | <u>Result</u> | <u>Units</u> |
|------------------|---------------|--------------|
| Calcium | 12700 | ug/L |
| Magnesium | 912 | ug/L |
| Potassium | 844 | ug/L |
| Sodium | 1180 | ug/L |
| Zinc | 56.0 | ug/L |

Results of RM 70

Client Sample ID: **RM 70**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452001
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13800 | 500 | 150 | ug/L | 1 | | 09/17/22 16:31 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:31 |
| Magnesium | 1300 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:31 |
| Zinc | 40.6 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:31 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:31
 Container ID: 1225452001-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 39.8 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:31 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:31
 Container ID: 1225452001-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 70

Client Sample ID: **RM 70**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452001
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 23:34 |

Batch Information

Analytical Batch: WTC3239
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 23:34
 Container ID: 1225452001-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 57.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452001-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 70 DUP

Client Sample ID: **RM 70 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452002
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13900 | 500 | 150 | ug/L | 1 | | 09/17/22 16:43 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:43 |
| Magnesium | 1280 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:43 |
| Zinc | 39.2 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:43 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 16:43 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452002-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 40.1 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:43 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 16:43 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452002-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 70 DUP

Client Sample ID: **RM 70 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452002
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| TOC Average, Dissolved | 1.00 U | 1.00 | 0.400 | mg/L | 1 | | 09/27/22 00:15 |

Batch Information

Analytical Batch: WTC3239
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/27/22 00:15
 Container ID: 1225452002-B

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Total Dissolved Solids | 65.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452002-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 82.1

Client Sample ID: **RM 82.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452003
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13700 | 500 | 150 | ug/L | 1 | | 09/17/22 16:46 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:46 |
| Magnesium | 1220 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:46 |
| Zinc | 76.4 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:46 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:46
 Container ID: 1225452003-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 39.3 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:46 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:46
 Container ID: 1225452003-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Results of RM 82.1

Client Sample ID: **RM 82.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452003
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| TOC Average, Dissolved | 1.00 U | 1.00 | 0.400 | mg/L | 1 | | 09/27/22 00:31 |

Batch Information

Analytical Batch: WTC3239
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/27/22 00:31
 Container ID: 1225452003-B

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Total Dissolved Solids | 61.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452003-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 82.1 DUP

Client Sample ID: **RM 82.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452004
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13600 | 500 | 150 | ug/L | 1 | | 09/17/22 16:49 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:49 |
| Magnesium | 1240 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:49 |
| Zinc | 41.2 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:49 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:49
 Container ID: 1225452004-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 39.0 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:49 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:49
 Container ID: 1225452004-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 82.1 DUP

Client Sample ID: **RM 82.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452004
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 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 | | 09/27/22 00:45 |

Batch Information

Analytical Batch: WTC3239
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/27/22 00:45
 Container ID: 1225452004-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 54.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452004-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 76

Client Sample ID: **RM 76**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452005
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:50
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13700 | 500 | 150 | ug/L | 1 | | 09/17/22 16:59 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:59 |
| Magnesium | 1200 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:59 |
| Zinc | 30.8 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:59 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:59
 Container ID: 1225452005-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 39.2 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:59 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 16:59
 Container ID: 1225452005-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 76

Client Sample ID: **RM 76**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452005
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:50
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| TOC Average, Dissolved | 1.00 U | 1.00 | 0.400 | mg/L | 1 | | 09/27/22 00:58 |

Batch Information

Analytical Batch: WTC3239
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/27/22 00:58
 Container ID: 1225452005-B

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Total Dissolved Solids | 64.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452005-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 82

Client Sample ID: **RM 82**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452006
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:25
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 13400 | 500 | 150 | ug/L | 1 | | 09/17/22 17:02 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:02 |
| Magnesium | 1180 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:02 |
| Zinc | 27.0 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:02 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:02
 Container ID: 1225452006-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 38.2 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:02 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:02
 Container ID: 1225452006-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 82

Client Sample ID: **RM 82**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452006
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:25
 Received Date: 09/09/22 08:34
 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 | | 09/25/22 21:56 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 21:56
 Container ID: 1225452006-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 60.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452006-C

Print Date: 11/02/2022 12:02:14PM

Results of Field Blank

Client Sample ID: **Field Blank**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452007
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:00
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 500 U | 500 | 150 | ug/L | 1 | | 09/17/22 17:05 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:05 |
| Magnesium | 50.0 U | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:05 |
| Zinc | 93.7 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:05 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:05
 Container ID: 1225452007-D

Prep Batch: MX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 5.00 U | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:05 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:05
 Container ID: 1225452007-D

Prep Batch: MX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of Field Blank

Client Sample ID: **Field Blank**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452007
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:00
 Received Date: 09/09/22 08:34
 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 | | 09/25/22 22:17 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 22:17
 Container ID: 1225452007-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 10.5 U | 10.5 | 3.26 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452007-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 20.75

Client Sample ID: **RM 20.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452008
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10900 | 500 | 150 | ug/L | 1 | | 09/17/22 17:08 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:08 |
| Magnesium | 1120 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:08 |
| Zinc | 94.1 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:08 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:08
 Container ID: 1225452008-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.7 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:08 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:08
 Container ID: 1225452008-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Results of RM 20.75

Client Sample ID: **RM 20.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452008
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:30
 Received Date: 09/09/22 08:34
 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 | | 09/25/22 22:41 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 22:41
 Container ID: 1225452008-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 49.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452008-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 19

Client Sample ID: **RM 19**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452009
 Lab Project ID: 1225452

Collection Date: 09/07/22 15:00
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10900 | 500 | 150 | ug/L | 1 | | 09/17/22 17:11 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:11 |
| Magnesium | 3340 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:11 |
| Zinc | 133 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:11 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:11 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452009-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 41.0 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:11 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:11 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452009-D | Prep Extract Vol: 50 mL |

Results of RM 19

Client Sample ID: **RM 19**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452009
 Lab Project ID: 1225452

Collection Date: 09/07/22 15:00
 Received Date: 09/09/22 08:34
 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 | 14.4 | | 1.00 | 0.400 | mg/L | 1 | | 09/25/22 23:00 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 23:00
 Container ID: 1225452009-B

| Parameter | Result | Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|--------|------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 84.0 | | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452009-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 40

Client Sample ID: **RM 40**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452010
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 11000 | 500 | 150 | ug/L | 1 | | 09/17/22 17:14 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:14 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:14 |
| Zinc | 60.3 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:14 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:14 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452010-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.6 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:14 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:14 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452010-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 40

Client Sample ID: **RM 40**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452010
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 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 | | 09/25/22 23:19 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 23:19
 Container ID: 1225452010-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 39.0 | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452010-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 70

Client Sample ID: **RM 70**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452011
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:44 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:44 |
| Calcium | 16300 | 500 | 150 | ug/L | 1 | | 10/27/22 19:44 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:44 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:44 |
| Magnesium | 1190 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:44 |
| Potassium | 580 | 500 | 150 | ug/L | 1 | | 10/27/22 19:44 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:44 |
| Sodium | 1380 | 500 | 150 | ug/L | 1 | | 10/27/22 19:44 |
| Zinc | 54.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:44 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:44
 Container ID: 1225452011-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 70 DUP

Client Sample ID: **RM 70 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452012
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:30
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:46 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:46 |
| Calcium | 16400 | 500 | 150 | ug/L | 1 | | 10/27/22 19:46 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:46 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:46 |
| Magnesium | 1180 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:46 |
| Potassium | 576 | 500 | 150 | ug/L | 1 | | 10/27/22 19:46 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:46 |
| Sodium | 1340 | 500 | 150 | ug/L | 1 | | 10/27/22 19:46 |
| Zinc | 44.0 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:46 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:46
 Container ID: 1225452012-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 82.1

Client Sample ID: **RM 82.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452013
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:49 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:49 |
| Calcium | 16100 | 500 | 150 | ug/L | 1 | | 10/27/22 19:49 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:49 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:49 |
| Magnesium | 1170 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:49 |
| Potassium | 583 | 500 | 150 | ug/L | 1 | | 10/27/22 19:49 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:49 |
| Sodium | 1300 | 500 | 150 | ug/L | 1 | | 10/27/22 19:49 |
| Zinc | 40.0 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:49 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:49
 Container ID: 1225452013-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 82.1 DUP

Client Sample ID: **RM 82.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452014
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:15
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:57 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:57 |
| Calcium | 16100 | 500 | 150 | ug/L | 1 | | 10/27/22 19:57 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:57 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:57 |
| Magnesium | 1170 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:57 |
| Potassium | 573 | 500 | 150 | ug/L | 1 | | 10/27/22 19:57 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:57 |
| Sodium | 1300 | 500 | 150 | ug/L | 1 | | 10/27/22 19:57 |
| Zinc | 71.3 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:57 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:57
 Container ID: 1225452014-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 76

Client Sample ID: **RM 76**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452015
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:50
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:00 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:00 |
| Calcium | 16200 | 500 | 150 | ug/L | 1 | | 10/27/22 20:00 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:00 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:00 |
| Magnesium | 1170 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:00 |
| Potassium | 579 | 500 | 150 | ug/L | 1 | | 10/27/22 20:00 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:00 |
| Sodium | 1290 | 500 | 150 | ug/L | 1 | | 10/27/22 20:00 |
| Zinc | 46.5 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:00 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:00
 Container ID: 1225452015-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 82

Client Sample ID: **RM 82**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452016
 Lab Project ID: 1225452

Collection Date: 09/08/22 10:25
 Received Date: 09/09/22 08:34
 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 | 31.7 | 20.0 | 6.20 | ug/L | 1 | | 09/21/22 22:17 |
| Aluminum | 20.0 U | 20.0 | 6.20 | ug/L | 1 | | 10/27/22 20:02 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 09/21/22 22:17 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:02 |
| Calcium | 500 U | 500 | 150 | ug/L | 1 | | 09/21/22 22:17 |
| Calcium | 16000 | 500 | 150 | ug/L | 1 | | 10/27/22 20:02 |
| Copper | 88.5 | 3.00 | 1.00 | ug/L | 1 | | 09/21/22 22:17 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:02 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 09/21/22 22:17 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:02 |
| Magnesium | 154 | 50.0 | 15.0 | ug/L | 1 | | 09/21/22 22:17 |
| Magnesium | 1160 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:02 |
| Potassium | 500 U | 500 | 150 | ug/L | 1 | | 09/21/22 22:17 |
| Potassium | 595 | 500 | 150 | ug/L | 1 | | 10/27/22 20:02 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 09/21/22 22:17 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:02 |
| Sodium | 2100 | 500 | 150 | ug/L | 1 | | 09/21/22 22:17 |
| Sodium | 1350 | 500 | 150 | ug/L | 1 | | 10/27/22 20:02 |
| Zinc | 10.0 U | 10.0 | 3.10 | ug/L | 1 | | 09/21/22 22:17 |
| Zinc | 46.4 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:02 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:02
 Container ID: 1225452016-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11687
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 09/21/22 22:17
 Container ID: 1225452016-B

Prep Batch: MXX35474
 Prep Method: E200.2
 Prep Date/Time: 09/19/22 15:02
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of Field Blank

Client Sample ID: **Field Blank**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452017
 Lab Project ID: 1225452

Collection Date: 09/08/22 11:00
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:05 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:05 |
| Calcium | 500 U | 500 | 150 | ug/L | 1 | | 10/27/22 20:05 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:05 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:05 |
| Magnesium | 50.0 U | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:05 |
| Potassium | 500 U | 500 | 150 | ug/L | 1 | | 10/27/22 20:05 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:05 |
| Sodium | 500 U | 500 | 150 | ug/L | 1 | | 10/27/22 20:05 |
| Zinc | 58.4 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:05 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:05
 Container ID: 1225452017-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 20.75

Client Sample ID: **RM 20.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452018
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:30
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:08 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:08 |
| Calcium | 12800 | 500 | 150 | ug/L | 1 | | 10/27/22 20:08 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:08 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:08 |
| Magnesium | 1000 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:08 |
| Potassium | 864 | 500 | 150 | ug/L | 1 | | 10/27/22 20:08 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:08 |
| Sodium | 1300 | 500 | 150 | ug/L | 1 | | 10/27/22 20:08 |
| Zinc | 43.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:08 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:08
 Container ID: 1225452018-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 19

Client Sample ID: **RM 19**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452019
 Lab Project ID: 1225452

Collection Date: 09/07/22 15:00
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:10 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:10 |
| Calcium | 13000 | 500 | 150 | ug/L | 1 | | 10/27/22 20:10 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:10 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:10 |
| Magnesium | 3270 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:10 |
| Potassium | 1210 | 500 | 150 | ug/L | 1 | | 10/27/22 20:10 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:10 |
| Sodium | 3430 | 500 | 150 | ug/L | 1 | | 10/27/22 20:10 |
| Zinc | 37.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:10 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:10
 Container ID: 1225452019-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 40

Client Sample ID: **RM 40**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452020
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:33 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:33 |
| Calcium | 12800 | 500 | 150 | ug/L | 1 | | 10/27/22 19:33 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:33 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:33 |
| Magnesium | 939 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:33 |
| Potassium | 852 | 500 | 150 | ug/L | 1 | | 10/27/22 19:33 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:33 |
| Sodium | 1250 | 500 | 150 | ug/L | 1 | | 10/27/22 19:33 |
| Zinc | 40.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:33 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:33
 Container ID: 1225452020-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 12.75

Client Sample ID: **RM 12.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452021
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:40
 Received Date: 09/09/22 08:34
 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 | 11200 | 500 | 150 | ug/L | 1 | | 09/17/22 17:17 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:17 |
| Magnesium | 1170 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:17 |
| Zinc | 85.4 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:17 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:17
 Container ID: 1225452021-D

Prep Batch: MX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 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 | 32.9 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:17 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:17
 Container ID: 1225452021-D

Prep Batch: MX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 12.75

Client Sample ID: **RM 12.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452021
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:40
 Received Date: 09/09/22 08:34
 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 | | 09/25/22 23:43 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/25/22 23:43
 Container ID: 1225452021-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 41.0 | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452021-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 31

Client Sample ID: **RM 31**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452022
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:00
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 11500 | 500 | 150 | ug/L | 1 | | 09/17/22 17:20 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:20 |
| Magnesium | 1190 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:20 |
| Zinc | 70.9 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:20 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:20
 Container ID: 1225452022-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 33.5 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:20 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:20
 Container ID: 1225452022-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 31

Client Sample ID: **RM 31**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452022
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:00
 Received Date: 09/09/22 08:34
 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 | | 1.00 | 0.400 | mg/L | 1 | | 09/26/22 00:02 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 00:02
 Container ID: 1225452022-B

| Parameter | Result | Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|--------|------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 41.0 | | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452022-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 21

Client Sample ID: **RM 21**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452023
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10800 | 500 | 150 | ug/L | 1 | | 09/17/22 17:23 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:23 |
| Magnesium | 1120 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:23 |
| Zinc | 44.7 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:23 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:23 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452023-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.7 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:23 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:23 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452023-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 21

Client Sample ID: **RM 21**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452023
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:30
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Waters Department

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| TOC Average, Dissolved | 1.00 U | 1.00 | 0.400 | mg/L | 1 | | 09/26/22 00:21 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 00:21
 Container ID: 1225452023-B

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Total Dissolved Solids | 45.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452023-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1

Client Sample ID: **RM 19.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452024
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10800 | 500 | 150 | ug/L | 1 | | 09/17/22 17:26 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:26 |
| Magnesium | 1120 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:26 |
| Zinc | 72.1 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:26 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:26 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452024-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.7 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:26 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:26 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452024-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1

Client Sample ID: **RM 19.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452024
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 00:38 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 00:38
 Container ID: 1225452024-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 51.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452024-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1 DUP

Client Sample ID: **RM 19.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452025
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10800 | 500 | 150 | ug/L | 1 | | 09/17/22 17:35 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:35 |
| Magnesium | 1110 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:35 |
| Zinc | 13.6 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:35 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:35 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452025-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.5 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:35 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:35 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452025-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1 DUP

Client Sample ID: **RM 19.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452025
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 01:28 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 01:28
 Container ID: 1225452025-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 51.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452025-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 21.1

Client Sample ID: **RM 21.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452026
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:15
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10700 | 500 | 150 | ug/L | 1 | | 09/17/22 17:38 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:38 |
| Magnesium | 1100 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:38 |
| Zinc | 70.9 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:38 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:38 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452026-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 31.3 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:38 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:38 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452026-D | Prep Extract Vol: 50 mL |

Results of RM 21.1

Client Sample ID: **RM 21.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452026
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:15
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 01:42 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 01:42
 Container ID: 1225452026-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 48.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452026-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 5

Client Sample ID: **RM 5**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452027
 Lab Project ID: 1225452

Collection Date: 09/06/22 14:40
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10600 | 500 | 150 | ug/L | 1 | | 09/17/22 17:41 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:41 |
| Magnesium | 1470 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:41 |
| Zinc | 76.0 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:41 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:41
 Container ID: 1225452027-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 32.6 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:41 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:41
 Container ID: 1225452027-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 5

Client Sample ID: **RM 5**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452027
 Lab Project ID: 1225452

Collection Date: 09/06/22 14:40
 Received Date: 09/09/22 08:34
 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 | 2.73 | | 1.00 | 0.400 | mg/L | 1 | | 09/26/22 01:56 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 01:56
 Container ID: 1225452027-B

| Parameter | Result | Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|--------|------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 48.0 | | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452027-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 10.1

Client Sample ID: **RM 10.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452028
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:26
 Received Date: 09/09/22 08:34
 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 | 11000 | 500 | 150 | ug/L | 1 | | 09/17/22 17:44 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:44 |
| Magnesium | 1110 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:44 |
| Zinc | 69.9 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:44 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:44
 Container ID: 1225452028-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 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 | 32.0 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:44 |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: SM21 2340B
 Analyst: DSD
 Analytical Date/Time: 09/17/22 17:44
 Container ID: 1225452028-D

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 09/12/22 10:38
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 10.1

Client Sample ID: **RM 10.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452028
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:26
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 02:11 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 02:11
 Container ID: 1225452028-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 47.0 | 10.0 | 3.10 | mg/L | 1 | | 09/13/22 17:03 |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/13/22 17:03
 Container ID: 1225452028-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 23

Client Sample ID: **RM 23**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452029
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:50
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 11200 | 500 | 150 | ug/L | 1 | | 09/17/22 17:47 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 17:47 |
| Magnesium | 1120 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 17:47 |
| Zinc | 62.9 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 17:47 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:47 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452029-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 32.6 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 17:47 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 17:47 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452029-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 23

Client Sample ID: **RM 23**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452029
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:50
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 02:24 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 02:24
 Container ID: 1225452029-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 43.0 | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452029-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 40 DUP

Client Sample ID: **RM 40 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452030
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):
 Location:

Results by Metals by ICP/MS

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Calcium | 10700 | 500 | 150 | ug/L | 1 | | 09/17/22 16:37 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 09/17/22 16:37 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 09/17/22 16:37 |
| Zinc | 107 | 10.0 | 3.10 | ug/L | 1 | | 09/17/22 16:37 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: EP200.8 | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 16:37 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452030-D | Prep Extract Vol: 50 mL |

| <u>Parameter</u> | <u>Result Qual</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> | <u>DF</u> | <u>Allowable Limits</u> | <u>Date Analyzed</u> |
|-------------------|--------------------|---------------|-----------|--------------|-----------|-------------------------|----------------------|
| Hardness as CaCO3 | 30.9 | 5.00 | 5.00 | mg/L | 1 | | 09/17/22 16:37 |

Batch Information

| | |
|--------------------------------------|--------------------------------|
| Analytical Batch: MMS11680 | Prep Batch: MXX35451 |
| Analytical Method: SM21 2340B | Prep Method: E200.2 |
| Analyst: DSD | Prep Date/Time: 09/12/22 10:38 |
| Analytical Date/Time: 09/17/22 16:37 | Prep Initial Wt./Vol.: 20 mL |
| Container ID: 1225452030-D | Prep Extract Vol: 50 mL |

Print Date: 11/02/2022 12:02:14PM

Results of RM 40 DUP

Client Sample ID: **RM 40 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452030
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 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 | | 09/26/22 02:38 |

Batch Information

Analytical Batch: WTC3236
 Analytical Method: SM 5310B
 Analyst: EBH
 Analytical Date/Time: 09/26/22 02:38
 Container ID: 1225452030-B

| Parameter | Result Qual | LOQ/CL | DL | Units | DF | Allowable Limits | Date Analyzed |
|------------------------|-------------|--------|------|-------|----|------------------|----------------|
| Total Dissolved Solids | 39.0 | 10.0 | 3.10 | mg/L | 1 | | 09/10/22 17:33 |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Analyst: EBH
 Analytical Date/Time: 09/10/22 17:33
 Container ID: 1225452030-C

Print Date: 11/02/2022 12:02:14PM

Results of RM 12.75

Client Sample ID: **RM 12.75**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452031
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:40
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 19:38 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 19:38 |
| Calcium | 12900 | 500 | 150 | ug/L | 1 | | 10/27/22 19:38 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 19:38 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 19:38 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 19:38 |
| Potassium | 864 | 500 | 150 | ug/L | 1 | | 10/27/22 19:38 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 19:38 |
| Sodium | 1360 | 500 | 150 | ug/L | 1 | | 10/27/22 19:38 |
| Zinc | 35.3 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 19:38 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 19:38
 Container ID: 1225452031-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 31

Client Sample ID: **RM 31**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452032
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:00
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:13 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:13 |
| Calcium | 13400 | 500 | 150 | ug/L | 1 | | 10/27/22 20:13 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:13 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:13 |
| Magnesium | 1070 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:13 |
| Potassium | 886 | 500 | 150 | ug/L | 1 | | 10/27/22 20:13 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:13 |
| Sodium | 1370 | 500 | 150 | ug/L | 1 | | 10/27/22 20:13 |
| Zinc | 46.7 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:13 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:13
 Container ID: 1225452032-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 21

Client Sample ID: **RM 21**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452033
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:30
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:16 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:16 |
| Calcium | 12900 | 500 | 150 | ug/L | 1 | | 10/27/22 20:16 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:16 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:16 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:16 |
| Potassium | 869 | 500 | 150 | ug/L | 1 | | 10/27/22 20:16 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:16 |
| Sodium | 1360 | 500 | 150 | ug/L | 1 | | 10/27/22 20:16 |
| Zinc | 46.4 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:16 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:16
 Container ID: 1225452033-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1

Client Sample ID: **RM 19.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452034
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:18 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:18 |
| Calcium | 12900 | 500 | 150 | ug/L | 1 | | 10/27/22 20:18 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:18 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:18 |
| Magnesium | 1010 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:18 |
| Potassium | 867 | 500 | 150 | ug/L | 1 | | 10/27/22 20:18 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:18 |
| Sodium | 1300 | 500 | 150 | ug/L | 1 | | 10/27/22 20:18 |
| Zinc | 34.7 B | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:18 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:18
 Container ID: 1225452034-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 19.1 DUP

Client Sample ID: **RM 19.1 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452035
 Lab Project ID: 1225452

Collection Date: 09/07/22 11:10
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:21 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:21 |
| Calcium | 13000 | 500 | 150 | ug/L | 1 | | 10/27/22 20:21 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:21 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:21 |
| Magnesium | 1010 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:21 |
| Potassium | 865 | 500 | 150 | ug/L | 1 | | 10/27/22 20:21 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:21 |
| Sodium | 1290 | 500 | 150 | ug/L | 1 | | 10/27/22 20:21 |
| Zinc | 37.3 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:21 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:21
 Container ID: 1225452035-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 21.1

Client Sample ID: **RM 21.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452036
 Lab Project ID: 1225452

Collection Date: 09/07/22 14:15
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:29 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:29 |
| Calcium | 12700 | 500 | 150 | ug/L | 1 | | 10/27/22 20:29 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:29 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:29 |
| Magnesium | 1010 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:29 |
| Potassium | 847 | 500 | 150 | ug/L | 1 | | 10/27/22 20:29 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:29 |
| Sodium | 1310 | 500 | 150 | ug/L | 1 | | 10/27/22 20:29 |
| Zinc | 57.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:29 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:29
 Container ID: 1225452036-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 5

Client Sample ID: **RM 5**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452037
 Lab Project ID: 1225452

Collection Date: 09/06/22 14:40
 Received Date: 09/09/22 08:34
 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 | 21.4 | 20.0 | 6.20 | ug/L | 1 | | 10/27/22 20:32 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:32 |
| Calcium | 12200 | 500 | 150 | ug/L | 1 | | 10/27/22 20:32 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:32 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:32 |
| Magnesium | 1220 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:32 |
| Potassium | 953 | 500 | 150 | ug/L | 1 | | 10/27/22 20:32 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:32 |
| Sodium | 3220 | 500 | 150 | ug/L | 1 | | 10/27/22 20:32 |
| Zinc | 42.5 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:32 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:32
 Container ID: 1225452037-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 10.1

Client Sample ID: **RM 10.1**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452038
 Lab Project ID: 1225452

Collection Date: 09/07/22 10:26
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:34 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:34 |
| Calcium | 13100 | 500 | 150 | ug/L | 1 | | 10/27/22 20:34 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:34 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:34 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:34 |
| Potassium | 875 | 500 | 150 | ug/L | 1 | | 10/27/22 20:34 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:34 |
| Sodium | 1320 | 500 | 150 | ug/L | 1 | | 10/27/22 20:34 |
| Zinc | 34.8 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:34 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:34
 Container ID: 1225452038-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 23

Client Sample ID: **RM 23**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452039
 Lab Project ID: 1225452

Collection Date: 09/06/22 11:50
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:37 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:37 |
| Calcium | 13200 | 500 | 150 | ug/L | 1 | | 10/27/22 20:37 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:37 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:37 |
| Magnesium | 1030 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:37 |
| Potassium | 881 | 500 | 150 | ug/L | 1 | | 10/27/22 20:37 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:37 |
| Sodium | 1340 | 500 | 150 | ug/L | 1 | | 10/27/22 20:37 |
| Zinc | 29.2 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:37 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:37
 Container ID: 1225452039-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Results of RM 40 DUP

Client Sample ID: **RM 40 DUP**
 Client Project ID: **Kenai River Metals Monitoring**
 Lab Sample ID: 1225452040
 Lab Project ID: 1225452

Collection Date: 09/06/22 10:00
 Received Date: 09/09/22 08:34
 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 | | 10/27/22 20:40 |
| Cadmium | 0.500 U | 0.500 | 0.150 | ug/L | 1 | | 10/27/22 20:40 |
| Calcium | 12700 | 500 | 150 | ug/L | 1 | | 10/27/22 20:40 |
| Copper | 3.00 U | 3.00 | 1.00 | ug/L | 1 | | 10/27/22 20:40 |
| Lead | 2.00 U | 2.00 | 0.500 | ug/L | 1 | | 10/27/22 20:40 |
| Magnesium | 912 | 50.0 | 15.0 | ug/L | 1 | | 10/27/22 20:40 |
| Potassium | 844 | 500 | 150 | ug/L | 1 | | 10/27/22 20:40 |
| Selenium | 5.00 U | 5.00 | 1.50 | ug/L | 1 | | 10/27/22 20:40 |
| Sodium | 1180 | 500 | 150 | ug/L | 1 | | 10/27/22 20:40 |
| Zinc | 56.0 | 10.0 | 3.10 | ug/L | 1 | | 10/27/22 20:40 |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Analyst: HGS
 Analytical Date/Time: 10/27/22 20:40
 Container ID: 1225452040-A

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/22 15:18
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:14PM

Method Blank

Blank ID: MB for HBN 1843066 [MXX/35451]
 Blank Lab ID: 1684856

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1225452001, 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007, 1225452008, 1225452009,
 1225452010, 1225452021, 1225452022, 1225452023, 1225452024, 1225452025, 1225452026, 1225452027, 1225452028,
 1225452029, 1225452030

Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| Calcium | 250U | 500 | 150 | ug/L |
| Copper | 1.50U | 3.00 | 1.00 | ug/L |
| Magnesium | 25.0U | 50.0 | 15.0 | ug/L |
| Zinc | 5.00U | 10.0 | 3.10 | ug/L |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Instrument: Perkin Elmer Nexlon P5
 Analyst: DSD
 Analytical Date/Time: 9/17/2022 4:22:42PM

Prep Batch: MXX35451
 Prep Method: E200.2
 Prep Date/Time: 9/12/2022 10:38:31AM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:20PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225452 [MXX35451]
 Blank Spike Lab ID: 1684857
 Date Analyzed: 09/17/2022 16:25

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452001, 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007,
 1225452008, 1225452009, 1225452010, 1225452021, 1225452022, 1225452023, 1225452024,
 1225452025, 1225452026, 1225452027, 1225452028, 1225452029, 1225452030

Results by EP200.8

| Parameter | Blank Spike (ug/L) | | | CL |
|-----------|--------------------|--------|---------|------------|
| | Spike | Result | Rec (%) | |
| Calcium | 10000 | 10200 | 102 | (85-115) |
| Copper | 1000 | 1040 | 104 | (85-115) |
| Magnesium | 10000 | 9820 | 98 | (85-115) |
| Zinc | 1000 | 1000 | 100 | (85-115) |

Batch Information

Analytical Batch: **MMS11680**
 Analytical Method: **EP200.8**
 Instrument: **Perkin Elmer Nexlon P5**
 Analyst: **DSD**

Prep Batch: **MXX35451**
 Prep Method: **E200.2**
 Prep Date/Time: **09/12/2022 10:38**
 Spike Init Wt./Vol.: 10000 ug/L Extract Vol: 50 mL
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 11/02/2022 12:02:22PM

Matrix Spike Summary

Original Sample ID: 1225452001
 MS Sample ID: 1684859 MS
 MSD Sample ID:

Analysis Date: 09/17/2022 16:31
 Analysis Date: 09/17/2022 16:34
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452001, 1225452030

Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Calcium | 13800 | 10000 | 23700 | 98 | | | | 70-130 | | |
| Copper | 3.00U | 1000 | 1050 | 105 | | | | 70-130 | | |
| Magnesium | 1300 | 10000 | 11200 | 99 | | | | 70-130 | | |
| Zinc | 40.6 | 1000 | 1050 | 101 | | | | 70-130 | | |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Instrument: Perkin Elmer Nexlon P5
 Analyst: DSD
 Analytical Date/Time: 9/17/2022 4:34:49PM

Prep Batch: MX35451
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 9/12/2022 10:38:31AM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 11/02/2022 12:02:23PM

Matrix Spike Summary

Original Sample ID: 1225452030
 MS Sample ID: 1684860 MS
 MSD Sample ID:

Analysis Date: 09/17/2022 16:37
 Analysis Date: 09/17/2022 16:40
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007, 1225452008, 1225452009, 1225452010, 1225452021, 1225452022, 1225452023, 1225452024, 1225452025, 1225452026, 1225452027, 1225452028, 1225452029, 1225452030

Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Calcium | 10700 | 10000 | 20700 | 100 | | | | 70-130 | | |
| Copper | 3.00U | 1000 | 1030 | 103 | | | | 70-130 | | |
| Magnesium | 1030 | 10000 | 11000 | 99 | | | | 70-130 | | |
| Zinc | 107 | 1000 | 1120 | 101 | | | | 70-130 | | |

Batch Information

Analytical Batch: MMS11680
 Analytical Method: EP200.8
 Instrument: Perkin Elmer Nexlon P5
 Analyst: DSD
 Analytical Date/Time: 9/17/2022 4:40:53PM

Prep Batch: MXX35451
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 9/12/2022 10:38:31AM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 11/02/2022 12:02:23PM

Method Blank

Blank ID: MB for HBN 1843926 [MXX/35474]
 Blank Lab ID: 1686482

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
 1225452016

Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| 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 | 5.00U | 10.0 | 3.10 | ug/L |

Batch Information

Analytical Batch: MMS11687
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 9/21/2022 9:42:11PM

Prep Batch: MXX35474
 Prep Method: E200.2
 Prep Date/Time: 9/19/2022 3:02:57PM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:29PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225452 [MXX35474]
 Blank Spike Lab ID: 1686483
 Date Analyzed: 09/21/2022 21:44

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452016

Results by EP200.8

| Parameter | Blank Spike (ug/L) | | | CL |
|-----------|--------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| Aluminum | 1000 | 966 | 97 | (85-115) |
| Cadmium | 100 | 99.3 | 99 | (85-115) |
| Calcium | 10000 | 10000 | 100 | (85-115) |
| Copper | 1000 | 1000 | 100 | (85-115) |
| Lead | 1000 | 1020 | 102 | (85-115) |
| Magnesium | 10000 | 9840 | 98 | (85-115) |
| Potassium | 10000 | 10100 | 101 | (85-115) |
| Selenium | 1000 | 995 | 100 | (85-115) |
| Sodium | 10000 | 9860 | 99 | (85-115) |
| Zinc | 1000 | 978 | 98 | (85-115) |

Batch Information

Analytical Batch: **MMS11687**
 Analytical Method: **EP200.8**
 Instrument: **P7 Agilent 7800**
 Analyst: **HGS**

Prep Batch: **MXX35474**
 Prep Method: **E200.2**
 Prep Date/Time: **09/19/2022 15:02**
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
 Dupe Init Wt./Vol.: Extract Vol:

Print Date: 11/02/2022 12:02:31PM

Method Blank

Blank ID: MB for HBN 1847316 [MXX/35596]
 Blank Lab ID: 1693878

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1225452011, 1225452012, 1225452013, 1225452014, 1225452015, 1225452016, 1225452017, 1225452018, 1225452019,
 1225452020, 1225452031, 1225452032, 1225452033, 1225452034, 1225452035, 1225452036, 1225452037, 1225452038,
 1225452039, 1225452040

Results by EP200.8

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------|----------------|---------------|-----------|--------------|
| 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 | 9.63J | 10.0 | 3.10 | ug/L |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 10/27/2022 7:25:00PM

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/2022 3:18:50PM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Analytical Batch: MMS11732
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 10/28/2022 12:58:58PM

Prep Batch: MXX35596
 Prep Method: E200.2
 Prep Date/Time: 10/27/2022 3:18:50PM
 Prep Initial Wt./Vol.: 20 mL
 Prep Extract Vol: 50 mL

Print Date: 11/02/2022 12:02:33PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225452 [MXX35596]
 Blank Spike Lab ID: 1693879
 Date Analyzed: 10/27/2022 19:27

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452011, 1225452012, 1225452013, 1225452014, 1225452015, 1225452016, 1225452017, 1225452018, 1225452019, 1225452020, 1225452031, 1225452032, 1225452033, 1225452034, 1225452035, 1225452036, 1225452037, 1225452038, 1225452039, 1225452040

Results by EP200.8

| Parameter | Blank Spike (ug/L) | | | CL |
|-----------|--------------------|--------|---------|----------|
| | Spike | Result | Rec (%) | |
| Aluminum | 1000 | 1010 | 101 | (85-115) |
| Cadmium | 100 | 99.1 | 99 | (85-115) |
| Calcium | 10000 | 10200 | 102 | (85-115) |
| Copper | 1000 | 1000 | 100 | (85-115) |
| Lead | 1000 | 995 | 100 | (85-115) |
| Magnesium | 10000 | 10100 | 101 | (85-115) |
| Potassium | 10000 | 10200 | 102 | (85-115) |
| Selenium | 1000 | 970 | 97 | (85-115) |
| Sodium | 10000 | 10100 | 101 | (85-115) |
| Zinc | 1000 | 997 | 100 | (85-115) |

Batch Information

Analytical Batch: **MMS11730**
 Analytical Method: **EP200.8**
 Instrument: **P7 Agilent 7800**
 Analyst: **HGS**

Prep Batch: **MXX35596**
 Prep Method: **E200.2**
 Prep Date/Time: **10/27/2022 15:18**
 Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 50 mL
 Dupe Init Wt./Vol.: Extract Vol:

Matrix Spike Summary

Original Sample ID: 1225452020
 MS Sample ID: 1693881 MS
 MSD Sample ID:

Analysis Date: 10/27/2022 19:33
 Analysis Date: 10/27/2022 19:35
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452020, 1225452031

Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Aluminum | 20.0U | 1000 | 1010 | 101 | | | | 70-130 | | |
| Cadmium | 0.500U | 100 | 98.8 | 99 | | | | 70-130 | | |
| Calcium | 12800 | 10000 | 22900 | 101 | | | | 70-130 | | |
| Copper | 3.00U | 1000 | 999 | 100 | | | | 70-130 | | |
| Lead | 2.00U | 1000 | 998 | 100 | | | | 70-130 | | |
| Magnesium | 939 | 10000 | 10800 | 99 | | | | 70-130 | | |
| Potassium | 852 | 10000 | 11000 | 101 | | | | 70-130 | | |
| Selenium | 5.00U | 1000 | 971 | 97 | | | | 70-130 | | |
| Sodium | 1250 | 10000 | 11100 | 99 | | | | 70-130 | | |
| Zinc | 40.8 | 1000 | 1030 | 99 | | | | 70-130 | | |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 10/27/2022 7:35:59PM

Prep Batch: MXX35596
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 10/27/2022 3:18:50PM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Print Date: 11/02/2022 12:02:37PM

Matrix Spike Summary

Original Sample ID: 1225452031
 MS Sample ID: 1693882 MS
 MSD Sample ID:

Analysis Date: 10/27/2022 19:38
 Analysis Date: 10/27/2022 19:41
 Analysis Date:
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452011, 1225452012, 1225452013, 1225452014, 1225452015, 1225452016, 1225452017, 1225452018, 1225452019, 1225452031, 1225452032, 1225452033, 1225452034, 1225452035, 1225452036, 1225452037, 1225452038, 1225452039, 1225452040

Results by EP200.8

| Parameter | Sample | Matrix Spike (ug/L) | | | Spike Duplicate (ug/L) | | | CL | RPD (%) | RPD CL |
|-----------|--------|---------------------|--------|---------|------------------------|--------|---------|--------|---------|--------|
| | | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Aluminum | 20.0U | 1000 | 1020 | 102 | | | | 70-130 | | |
| Cadmium | 0.500U | 100 | 100 | 100 | | | | 70-130 | | |
| Calcium | 12900 | 10000 | 23200 | 103 | | | | 70-130 | | |
| Copper | 3.00U | 1000 | 1010 | 101 | | | | 70-130 | | |
| Lead | 2.00U | 1000 | 1020 | 102 | | | | 70-130 | | |
| Magnesium | 1030 | 10000 | 11000 | 100 | | | | 70-130 | | |
| Potassium | 864 | 10000 | 11100 | 103 | | | | 70-130 | | |
| Selenium | 5.00U | 1000 | 991 | 99 | | | | 70-130 | | |
| Sodium | 1360 | 10000 | 11400 | 101 | | | | 70-130 | | |
| Zinc | 35.3 | 1000 | 1030 | 99 | | | | 70-130 | | |

Batch Information

Analytical Batch: MMS11730
 Analytical Method: EP200.8
 Instrument: P7 Agilent 7800
 Analyst: HGS
 Analytical Date/Time: 10/27/2022 7:41:39PM

Prep Batch: MXX35596
 Prep Method: DW Digest for Metals on ICP-MS
 Prep Date/Time: 10/27/2022 3:18:50PM
 Prep Initial Wt./Vol.: 20.00mL
 Prep Extract Vol: 50.00mL

Method Blank

Blank ID: MB for HBN 1843043 [STS/7386]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1684737

QC for Samples:

1225452009, 1225452010, 1225452021, 1225452022, 1225452027, 1225452029, 1225452030

Results by SM21 2540C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------|----------------|---------------|-----------|--------------|
| Total Dissolved Solids | 5.00U | 10.0 | 3.10 | mg/L |

Batch Information

Analytical Batch: STS7386

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Analytical Date/Time: 9/10/2022 5:33:17PM

Print Date: 11/02/2022 12:02:38PM

Duplicate Sample Summary

Original Sample ID: 1225413015
 Duplicate Sample ID: 1684740
 QC for Samples:

Analysis Date: 09/10/2022 17:33
 Matrix: Water (Surface, Eff., Ground)

Results by SM21 2540C

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|------------------------|-----------------|------------------|--------------|----------------|---------------|
| Total Dissolved Solids | 320 | 318 | mg/L | 0.63 | (< 5) |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Instrument:
 Analyst: EBH

Print Date: 11/02/2022 12:02:40PM

Duplicate Sample Summary

Original Sample ID: 1225413018
 Duplicate Sample ID: 1684741

Analysis Date: 09/10/2022 17:33
 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1225452009, 1225452010, 1225452021, 1225452022, 1225452027, 1225452029, 1225452030

Results by SM21 2540C

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|------------------------|-----------------|------------------|--------------|----------------|---------------|
| Total Dissolved Solids | 313 | 315 | mg/L | 0.64 | (< 5) |

Batch Information

Analytical Batch: STS7386
 Analytical Method: SM21 2540C
 Instrument:
 Analyst: EBH

Print Date: 11/02/2022 12:02:40PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225452 [STS7386]
 Blank Spike Lab ID: 1684738
 Date Analyzed: 09/10/2022 17:33

Spike Duplicate ID: LCSD for HBN 1225452 [STS7386]
 Spike Duplicate Lab ID: 1684739
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452009, 1225452010, 1225452021, 1225452022, 1225452027, 1225452029, 1225452030

Results by SM21 2540C

| Parameter | Blank Spike (mg/L) | | | Spike Duplicate (mg/L) | | | CL | RPD (%) | RPD CL |
|------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|--------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Total Dissolved Solids | 333 | 311 | 94 | 333 | 311 | 94 | (75-125) | 0.00 | (< 5) |

Batch Information

Analytical Batch: **STS7386**
 Analytical Method: **SM21 2540C**
 Instrument:
 Analyst: **EBH**

Print Date: 11/02/2022 12:02:41PM

Method Blank

Blank ID: MB for HBN 1843137 [STS/7389]

Matrix: Water (Surface, Eff., Ground)

Blank Lab ID: 1685165

QC for Samples:

1225452001, 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007, 1225452008, 1225452023, 1225452024, 1225452025, 1225452026, 1225452028

Results by SM21 2540C

| <u>Parameter</u> | <u>Results</u> | <u>LOQ/CL</u> | <u>DL</u> | <u>Units</u> |
|------------------------|----------------|---------------|-----------|--------------|
| Total Dissolved Solids | 5.00U | 10.0 | 3.10 | mg/L |

Batch Information

Analytical Batch: STS7389

Analytical Method: SM21 2540C

Instrument:

Analyst: EBH

Analytical Date/Time: 9/13/2022 5:03:00PM

Print Date: 11/02/2022 12:02:43PM

Duplicate Sample Summary

Original Sample ID: 1225485001
 Duplicate Sample ID: 1685168

Analysis Date: 09/13/2022 17:03
 Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1225452001, 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007, 1225452008,
 1225452023, 1225452024, 1225452025, 1225452026, 1225452028

Results by SM21 2540C

| <u>NAME</u> | <u>Original</u> | <u>Duplicate</u> | <u>Units</u> | <u>RPD (%)</u> | <u>RPD CL</u> |
|------------------------|-----------------|------------------|--------------|----------------|---------------|
| Total Dissolved Solids | 685 | 673 | mg/L | 1.70 | (< 5) |

Batch Information

Analytical Batch: STS7389
 Analytical Method: SM21 2540C
 Instrument:
 Analyst: EBH

Print Date: 11/02/2022 12:02:44PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1225452 [STS7389]
 Blank Spike Lab ID: 1685166
 Date Analyzed: 09/13/2022 17:03

Spike Duplicate ID: LCSD for HBN 1225452 [STS7389]
 Spike Duplicate Lab ID: 1685167
 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1225452001, 1225452002, 1225452003, 1225452004, 1225452005, 1225452006, 1225452007, 1225452008, 1225452023, 1225452024, 1225452025, 1225452026, 1225452028

Results by SM21 2540C

| Parameter | Blank Spike (mg/L) | | | Spike Duplicate (mg/L) | | | CL | RPD (%) | RPD CL |
|------------------------|--------------------|--------|---------|------------------------|--------|---------|------------|---------|--------|
| | Spike | Result | Rec (%) | Spike | Result | Rec (%) | | | |
| Total Dissolved Solids | 333 | 306 | 92 | 333 | 306 | 92 | (75-125) | 0.00 | (< 5) |

Batch Information

Analytical Batch: **STS7389**
 Analytical Method: **SM21 2540C**
 Instrument:
 Analyst: **EBH**

Print Date: 11/02/2022 12:02:45PM



SGS North America Inc. CHAIN OF CUSTODY RECORD

1225452



Revised Report - Revision 1

Cooler #1

us.sgs.com

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 #:** 3604795 DBR

INVOICE TO: sarah.apsens@alaska.gov dec.water.contracts@alaska.gov **QUOTE #:** NTP 22*384 **P.O. #:** Term contract #18-220-20-2

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

Section 3 **Preservative**

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE | # CONTAINERS | Comp Grab MI (Multi-Incremental) | Analysis* | | | | REMARKS/LOC ID |
|----------------------|-----------------------|---------------|------------|--------------------|--------------|----------------------------------|-----------|-----------|-----------------------------|------------------------|----------------|
| | | | | | | | DOC 530B | TDS 2540C | 200.8 metals 2340B Hardness | 200.8 dissolved metals | |
| | 1 AD DBRM 70 | 9/8/22 | 11:30 | W | 4 | Grab | X | X | X | X | |
| | 2 AD DBRM 70 DUP | 9/8/22 | 11:30 | | | | X | X | X | X | |
| | 3 AD DBRM 82.1 | 9/8/22 | 10:15 | | | | X | X | X | X | |
| | 4 AD DBRM 82.1 DUP | 9/8/22 | 10:15 | | | | X | X | X | X | |
| | 5 AD DBRM 76 | 9/8/22 | 10:50 | | | | X | X | X | X | |
| | 6 AD DBRM 82 | 9/8/22 | 10:25 | | | | X | X | X | X | |
| | 7 AD DB Field Blank | 9/8/22 | 11:00 | | | | X | X | X | X | |
| | 8 AD DBRM 20.75 | 9/7/22 | 11:30 | | | | X | X | X | X | |
| | 9 AD DBRM 19 | 9/7/22 | 15:00 | | | | X | X | X | X | |
| | 10 AD DBRM 40 | 9/6/22 | 10:00 | | | | X | X | X | X | |

Section 4 **DOD Project?** Yes No **Data Deliverable Requirements:**

Section 5

Relinquished By: (1) *[Signature]* **Date:** 9/8/22 **Time:** 15:00 **Received By:**

Relinquished By: (2) **Date:** **Time:** **Received By:**

Relinquished By: (3) **Date:** **Time:** **Received By:**

Relinquished By: (4) **Date:** 09/10/2022 **Time:** 13:34 **Received For Laboratory By:** *[Signature]* **TD**

Temp Blank °C: 0.6 **DB** **Chain of Custody Seal: (Circle)** **INTACT** **BROKEN** **ABSENT**

Delivery Method: Hand Delivery Commercial Delivery

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



SGS North America Inc. CHAIN OF CUSTODY RECORD

1225452



Revised Report - Revision

Circle #2

www.us.sgs.com

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

Page 1 of 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 #:

INVOICE TO: sarah.apsens@alaska.gov dec.water.contracts@alaska.gov QUOTE #: NTP 22*384 P.O. #: Term contract #18-220-20-2

Section 3

Preservative

CONTAINERS

Comp Grab MI (Multi-Incremental)

HNO3

Analysis*

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

REMARKS/LOC ID

| RESERVED for lab use | SAMPLE IDENTIFICATION | DATE mm/dd/yy | TIME HH:MM | MATRIX/MATRIX CODE | # | CONTAINERS | DOC 530B | TDS 2540C | 200.8 metals 2340B Hardness | 200.8 dissolved metals | | | | | | | | |
|----------------------|-----------------------|---------------|------------|--------------------|---|------------|----------|-----------|-----------------------------|------------------------|--|--|--|--|--|--|--|--|
| | RM 12.75 | 9/7/22 | 10:40 | Water | 4 | Grab | X | X | X | X | | | | | | | | |
| | RM 31 | 9/6/22 | 11:00 | | | | X | X | X | X | | | | | | | | |
| | RM 21 | 9/7/22 | 14:30 | | | | X | X | X | X | | | | | | | | |
| | RM 19.1 | 9/7/22 | 11:10 | | | | X | X | X | X | | | | | | | | |
| | RM 19.1 DUP | 9/7/22 | 11:10 | | | | X | X | X | X | | | | | | | | |
| | RM 21.1 | 9/7/22 | 14:15 | | | | X | X | X | X | | | | | | | | |
| | RM 5 | 9/6/22 | 14:40 | | | | X | X | X | X | | | | | | | | |
| | RM 10.1 | 9/7/22 | 10:26 | | | | X | X | X | X | | | | | | | | |
| | RM 23 | 9/6/22 | 11:50 | | | | X | X | X | X | | | | | | | | |
| | RM 40 DUP | 9/6/22 | 10:00 | | | | X | X | X | X | | | | | | | | |

| Relinquished By: (1) | Date | Time | Received By: |
|----------------------|----------|-------|-----------------------------|
| <i>[Signature]</i> | 9/8/22 | 15:00 | |
| Relinquished By: (2) | Date | Time | Received By: |
| Relinquished By: (3) | Date | Time | Received By: |
| Relinquished By: (4) | Date | Time | Received For Laboratory By: |
| | 09/09/22 | 8:36 | <i>[Signature]</i> |

Section 4 DOD Project? Yes No Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.5 D23 or Ambient []

Chain of Custody Seal: (Circle) **INTACT** BROKEN ABSENT

Delivery Method: Hand Delivery [] Commerical Delivery

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



1225452

Returned Bottles Inventory



Name of individual returning bottles:

Date Received:

09/09/2022

Client Name:

Alaska Department of Environ. Conservation

Received by:

[Signature] 40

Project Name:

Kenai River Metals Monitoring

SGS PM:

Justin Nelson

| | | | | | |
|----------------------|--------------------------------------|----|--|--|--|
| HDPE/Nalgene: | 1-L | | | | |
| | 500-ml | | | | |
| | 250-ml or 8-oz | | | | |
| | 125-ml or 4-oz | 7 | | | |
| | 60-ml or 2-oz | | | | |
| | other | | | | |
| amber glass: | 1-L | | | | |
| | 500-ml | | | | |
| | 250-ml or 8-oz | 43 | | | |
| | 125-ml or 4-oz with or without septa | | | | |
| | 40-ml VOA vial | | | | |
| | other | | | | |
| Subtotal: | 50 | | | | |

Note: Returned bottles (regardless of size/pres.) are billed back at \$4/bottle unless otherwise quoted.

Amount to Invoice Client \$:

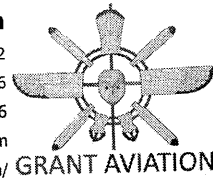
200

WO#:

AIRBILL 10436032

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/



FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: Sep 8 22 3:25 PM

Receiver: SGS
 907-562-2343

Sender: DEC
 907-4741-1026

Accepted: Thu, Sep 8 22 3:20:00 PM

| Description & Comment | Quan. | Wgt. | Handle Fee | Hazmat Fee | Total |
|-----------------------|-------|------|------------|------------|---------------|
| water Samples | 4 | 118 | - | - | \$88.85 |
| Total Tax: | | | | | \$5.55 |
| Total Payments made: | | | | | \$94.40 |
| Total Unpaid: | | | | | \$0.00 |

Received in good condition by:

CUSTOMER COPY

AIRBILL 10436032

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/



FREIGHT DETAILS

FROM/TO: Kenai -> Anchorage International

Flight Departs: Sep 8 22 3:25 PM

Receiver: SGS
 907-562-2343

Sender: DEC
 907-4741-1026

Accepted: Thu, Sep 8 22 3:20:00 PM

| Description & Comment | Quan. | Wgt. | Handle Fee | Hazmat Fee | Total |
|-------------------------|-------|------|------------|------------|---------------|
| water Samples | 4 | 118 | - | - | \$88.85 |
| TAX: Federal Excise Tax | | | | | \$5.55 |
| Total Payments made: | | | | | \$94.40 |
| Total Unpaid: | | | | | \$0.00 |

TERMS AND CONDITIONS

Consignemnt Note Text

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



Date 9-9-22
From ADEL

To SGS Labs Inc

Collect Prepay Advance Charges

Job # ENH PO# Grant 10436032

5 Samples X 4

4 at 118 LBS

Shipped Signature [Signature]

Received By: [Signature]

Total Charge
94 of 97



SGS Workorder #:

1225452

1225452

| Review Criteria | Condition (Yes, No, N/A) | Exceptions Noted below |
|--|--------------------------|------------------------|
| Chain of Custody / Temperature Requirements | | |
| <i>Note: Temperature and COC seal information is found on the chain of custody form</i> | | |
| 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 Requirement | | |
| <i>Note: Refer to form F-083 "Sample Guide" for specific holding times and sample containers.</i> | | |
| Were samples received within analytical holding time? | Yes | |
| Do sample labels match COC? Record discrepancies. | Yes | |
| Note: If information on containers differs from COC, default to COC information for login. If times differ <1hr, record details & login per COC. | | |
| Were analytical requests clear? <i>(i.e. method is specified for analyses with multiple option for method (Eg, BTEX 8021 vs 8260, Metals 6020 vs 200.8)</i> | 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

| <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|--------------------------|----------------------------|
| 1225452001-A | No Preservative Required | OK | 1225452015-B | HNO3 to pH < 2 | OK |
| 1225452001-B | HCL to pH < 2 | OK | 1225452016-A | No Preservative Required | OK |
| 1225452001-C | No Preservative Required | OK | 1225452016-B | HNO3 to pH < 2 | OK |
| 1225452001-D | HNO3 to pH < 2 | OK | 1225452017-A | No Preservative Required | OK |
| 1225452002-A | No Preservative Required | OK | 1225452017-B | HNO3 to pH < 2 | OK |
| 1225452002-B | HCL to pH < 2 | OK | 1225452018-A | No Preservative Required | OK |
| 1225452002-C | No Preservative Required | OK | 1225452018-B | HNO3 to pH < 2 | OK |
| 1225452002-D | HNO3 to pH < 2 | OK | 1225452019-A | No Preservative Required | OK |
| 1225452003-A | No Preservative Required | OK | 1225452019-B | HNO3 to pH < 2 | OK |
| 1225452003-B | HCL to pH < 2 | OK | 1225452020-A | No Preservative Required | OK |
| 1225452003-C | No Preservative Required | OK | 1225452020-B | HNO3 to pH < 2 | OK |
| 1225452003-D | HNO3 to pH < 2 | OK | 1225452021-A | No Preservative Required | OK |
| 1225452004-A | No Preservative Required | OK | 1225452021-B | HCL to pH < 2 | OK |
| 1225452004-B | HCL to pH < 2 | OK | 1225452021-C | No Preservative Required | OK |
| 1225452004-C | No Preservative Required | OK | 1225452021-D | HNO3 to pH < 2 | OK |
| 1225452004-D | HNO3 to pH < 2 | OK | 1225452022-A | No Preservative Required | OK |
| 1225452005-A | No Preservative Required | OK | 1225452022-B | HCL to pH < 2 | OK |
| 1225452005-B | HCL to pH < 2 | OK | 1225452022-C | No Preservative Required | OK |
| 1225452005-C | No Preservative Required | OK | 1225452022-D | HNO3 to pH < 2 | OK |
| 1225452005-D | HNO3 to pH < 2 | OK | 1225452023-A | No Preservative Required | OK |
| 1225452006-A | No Preservative Required | OK | 1225452023-B | HCL to pH < 2 | OK |
| 1225452006-B | HCL to pH < 2 | OK | 1225452023-C | No Preservative Required | OK |
| 1225452006-C | No Preservative Required | OK | 1225452023-D | HNO3 to pH < 2 | OK |
| 1225452006-D | HNO3 to pH < 2 | OK | 1225452024-A | No Preservative Required | OK |
| 1225452007-A | No Preservative Required | OK | 1225452024-B | HCL to pH < 2 | OK |
| 1225452007-B | HCL to pH < 2 | OK | 1225452024-C | No Preservative Required | OK |
| 1225452007-C | No Preservative Required | OK | 1225452024-D | HNO3 to pH < 2 | OK |
| 1225452007-D | HNO3 to pH < 2 | OK | 1225452025-A | No Preservative Required | OK |
| 1225452008-A | No Preservative Required | OK | 1225452025-B | HCL to pH < 2 | OK |
| 1225452008-B | HCL to pH < 2 | OK | 1225452025-C | No Preservative Required | OK |
| 1225452008-C | No Preservative Required | OK | 1225452025-D | HNO3 to pH < 2 | OK |
| 1225452008-D | HNO3 to pH < 2 | OK | 1225452026-A | No Preservative Required | OK |
| 1225452009-A | No Preservative Required | OK | 1225452026-B | HCL to pH < 2 | OK |
| 1225452009-B | HCL to pH < 2 | OK | 1225452026-C | No Preservative Required | OK |
| 1225452009-C | No Preservative Required | OK | 1225452026-D | HNO3 to pH < 2 | OK |
| 1225452009-D | HNO3 to pH < 2 | OK | 1225452027-A | No Preservative Required | OK |
| 1225452010-A | No Preservative Required | OK | 1225452027-B | HCL to pH < 2 | OK |
| 1225452010-B | HCL to pH < 2 | OK | 1225452027-C | No Preservative Required | OK |
| 1225452010-C | No Preservative Required | OK | 1225452027-D | HNO3 to pH < 2 | OK |
| 1225452010-D | HNO3 to pH < 2 | OK | 1225452028-A | No Preservative Required | OK |
| 1225452011-A | No Preservative Required | OK | 1225452028-B | HCL to pH < 2 | OK |
| 1225452011-B | HNO3 to pH < 2 | OK | 1225452028-C | No Preservative Required | OK |
| 1225452012-A | No Preservative Required | OK | 1225452028-D | HNO3 to pH < 2 | OK |
| 1225452012-B | HNO3 to pH < 2 | OK | 1225452029-A | No Preservative Required | OK |
| 1225452013-A | No Preservative Required | OK | 1225452029-B | HCL to pH < 2 | OK |
| 1225452013-B | HNO3 to pH < 2 | OK | 1225452029-C | No Preservative Required | OK |
| 1225452014-A | No Preservative Required | OK | 1225452029-D | HNO3 to pH < 2 | OK |
| 1225452014-B | HNO3 to pH < 2 | OK | 1225452030-A | No Preservative Required | OK |
| 1225452015-A | No Preservative Required | OK | 1225452030-B | HCL to pH < 2 | OK |

| <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> | <u>Container Id</u> | <u>Preservative</u> | <u>Container Condition</u> |
|---------------------|--------------------------|----------------------------|---------------------|---------------------|----------------------------|
| 1225452030-C | No Preservative Required | OK | | | |
| 1225452030-D | HNO3 to pH < 2 | OK | | | |
| 1225452031-A | No Preservative Required | OK | | | |
| 1225452031-B | HNO3 to pH < 2 | OK | | | |
| 1225452032-A | No Preservative Required | OK | | | |
| 1225452032-B | HNO3 to pH < 2 | OK | | | |
| 1225452033-A | No Preservative Required | OK | | | |
| 1225452033-B | HNO3 to pH < 2 | OK | | | |
| 1225452034-A | No Preservative Required | OK | | | |
| 1225452034-B | HNO3 to pH < 2 | OK | | | |
| 1225452035-A | No Preservative Required | OK | | | |
| 1225452035-B | HNO3 to pH < 2 | OK | | | |
| 1225452036-A | No Preservative Required | OK | | | |
| 1225452036-B | HNO3 to pH < 2 | OK | | | |
| 1225452037-A | No Preservative Required | OK | | | |
| 1225452037-B | HNO3 to pH < 2 | OK | | | |
| 1225452038-A | No Preservative Required | OK | | | |
| 1225452038-B | HNO3 to pH < 2 | OK | | | |
| 1225452039-A | No Preservative Required | OK | | | |
| 1225452039-B | HNO3 to pH < 2 | OK | | | |
| 1225452040-A | No Preservative Required | OK | | | |
| 1225452040-B | HNO3 to pH < 2 | OK | | | |
| 1225452041-A | No Preservative Required | OK | | | |

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.