Laboratory Report of Analysis

To: Stantec Consulting Services Inc.
725 East Fireweed Lane Suite 200
Anchorage, AK 99503
(907)248-8883

Report Number: **1200857**

Client Project: **Stantec**

Dear John Marshall,

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 Date
Project Manager
Justin.Nelson@sgs.com

SGS North America Inc. 200 West Potter Drive, Anchorage, AK 99518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1200857**
Project Name/Site: **Stantec**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1200804002DUP (1552664) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. Refer to LCS/LCSD RPD for batch precision.

1200830001(1552962MS) (1552963) MS

300.0 - Anions - MS recoveries for chloride, fluoride, nitrate, nitrite, and sulfate are outside of QC criteria. Refer to LCS for accuracy requirements.

1200854001(1552964MS) (1552965) MS

300.0 - Anions - MS recoveries for chloride, fluoride, nitrate, nitrite, and sulfate are outside of QC criteria. Refer to LCS for accuracy requirements.

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

Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 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
U	Indicates the analyte was analyzed for but not detected.

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW18	1200857001	03/03/2020	03/03/2020	Water (Surface, Eff., Ground)
SW17	1200857002	03/03/2020	03/03/2020	Water (Surface, Eff., Ground)
SW15	1200857003	03/03/2020	03/03/2020	Water (Surface, Eff., Ground)
SW1	1200857004	03/03/2020	03/03/2020	Water (Surface, Eff., Ground)
SW9	1200857005	03/03/2020	03/03/2020	Water (Surface, Eff., Ground)

Method	Method Description
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
EPA 300.0	Ion Chromatographic Analysis
SM23 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SW18**
Lab Sample ID: 1200857001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	44	MPN/100mL
Ammonia-N	0.446	mg/L
Nitrate-N	3.36	mg/L
Total Kjeldahl Nitrogen	0.959J	mg/L
Total Nitrate/Nitrite-N	3.36	mg/L
Total Phosphorus	0.199	mg/L
Total Suspended Solids	1.10	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1200857002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.84	mg/L
Total Coliform	29	MPN/100mL
Ammonia-N	0.585	mg/L
Nitrate-N	2.33	mg/L
Total Kjeldahl Nitrogen	0.586J	mg/L
Total Nitrate/Nitrite-N	2.36	mg/L
Total Phosphorus	0.0778	mg/L
Total Suspended Solids	1.55	mg/L

Client Sample ID: **SW15**
Lab Sample ID: 1200857003
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	18.3	mg/L
E. Coli	7	MPN/100mL
Total Coliform	205	MPN/100mL
Ammonia-N	1.46	mg/L
Total Kjeldahl Nitrogen	2.94	mg/L
Total Phosphorus	0.544	mg/L

Client Sample ID: **SW1**
Lab Sample ID: 1200857004
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	13.5	mg/L
E. Coli	3	MPN/100mL
Total Coliform	32	MPN/100mL
Ammonia-N	1.57	mg/L
Nitrate-N	0.0620J	mg/L
Total Kjeldahl Nitrogen	2.23	mg/L
Total Nitrate/Nitrite-N	0.0620J	mg/L
Total Phosphorus	0.559	mg/L

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Detectable Results Summary

Client Sample ID: **SW9**
Lab Sample ID: 1200857005

Microbiology Laboratory

Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	8.10	mg/L
E. Coli	1	MPN/100mL
Total Coliform	69	MPN/100mL
Ammonia-N	23.2	mg/L
Total Kjeldahl Nitrogen	15.3	mg/L
Total Phosphorus	3.37	mg/L

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Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Stantec**
Lab Sample ID: 1200857001
Lab Project ID: 1200857

Collection Date: 03/03/20 10:11
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		03/03/20 17:47

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 03/03/20 17:47
Container ID: 1200857001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		03/03/20 16:58

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 03/03/20 16:58
Container ID: 1200857001-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		03/03/20 17:26
Total Coliform	44		1	1	MPN/100m	1		03/03/20 17:26

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/03/20 17:26
Container ID: 1200857001-E

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Stantec**
Lab Sample ID: 1200857001
Lab Project ID: 1200857

Collection Date: 03/03/20 10:11
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.36		0.200	0.0500	mg/L	1		03/04/20 12:19
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 12:19
Total Nitrate/Nitrite-N	3.36		0.200	0.0500	mg/L	1		03/04/20 12:19

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/04/20 12:19
Container ID: 1200857001-C

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 03/04/20 09:45
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.10		1.10	0.341	mg/L	1		03/04/20 15:09

Batch Information

Analytical Batch: STS6614
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 03/04/20 15:09
Container ID: 1200857001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.446		0.100	0.0310	mg/L	1		03/10/20 17:52

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 03/10/20 17:52
Container ID: 1200857001-F

Prep Batch: WXX13216
Prep Method: METHOD
Prep Date/Time: 03/10/20 15:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.199		0.0400	0.0120	mg/L	1		03/04/20 15:18

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Stantec**
Lab Sample ID: 1200857001
Lab Project ID: 1200857

Collection Date: 03/03/20 10:11
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 03/04/20 15:18
Container ID: 1200857001-F

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 03/04/20 11:45
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.959	J	1.00	0.310	mg/L	1		03/12/20 12:05

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Analyst: DMM
Analytical Date/Time: 03/12/20 12:05
Container ID: 1200857001-F

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 03/11/20 12:47
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Stantec**
Lab Sample ID: 1200857002
Lab Project ID: 1200857

Collection Date: 03/03/20 10:45
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.84		2.00	2.00	mg/L	1		03/03/20 17:47

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 03/03/20 17:47
Container ID: 1200857002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/03/20 16:58

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 03/03/20 16:58
Container ID: 1200857002-D

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		03/03/20 17:26
Total Coliform	29		1	1	MPN/100m	1		03/03/20 17:26

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/03/20 17:26
Container ID: 1200857002-E

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Stantec**
Lab Sample ID: 1200857002
Lab Project ID: 1200857

Collection Date: 03/03/20 10:45
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.33		0.200	0.0500	mg/L	1		03/04/20 12:38
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 12:38
Total Nitrate/Nitrite-N	2.36		0.200	0.0500	mg/L	1		03/04/20 12:38

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/04/20 12:38
Container ID: 1200857002-C

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 03/04/20 09:45
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.55		0.971	0.301	mg/L	1		03/04/20 15:09

Batch Information

Analytical Batch: STS6614
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 03/04/20 15:09
Container ID: 1200857002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.585		0.100	0.0310	mg/L	1		03/10/20 17:57

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 03/10/20 17:57
Container ID: 1200857002-F

Prep Batch: WXX13216
Prep Method: METHOD
Prep Date/Time: 03/10/20 15:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0778		0.0400	0.0120	mg/L	1		03/04/20 15:22

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Stantec**
Lab Sample ID: 1200857002
Lab Project ID: 1200857

Collection Date: 03/03/20 10:45
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 03/04/20 15:22
Container ID: 1200857002-F

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 03/04/20 11:45
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.586	J	1.00	0.310	mg/L	1		03/12/20 12:06

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Analyst: DMM
Analytical Date/Time: 03/12/20 12:06
Container ID: 1200857002-F

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 03/11/20 12:47
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Stantec**
Lab Sample ID: 1200857003
Lab Project ID: 1200857

Collection Date: 03/03/20 11:15
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	18.3		2.00	2.00	mg/L	1		03/03/20 17:47

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 03/03/20 17:47
Container ID: 1200857003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		03/03/20 16:58

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 03/03/20 16:58
Container ID: 1200857003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	7		1	1	MPN/100m	1		03/03/20 17:26
Total Coliform	205		1	1	MPN/100m	1		03/03/20 17:26

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/03/20 17:26
Container ID: 1200857003-D

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Stantec**
Lab Sample ID: 1200857003
Lab Project ID: 1200857

Collection Date: 03/03/20 11:15
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 12:57
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 12:57
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 12:57

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/04/20 12:57
Container ID: 1200857003-B

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 03/04/20 09:45
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	1.46		0.100	0.0310	mg/L	1		03/10/20 17:59

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 03/10/20 17:59
Container ID: 1200857003-E

Prep Batch: WXX13216
Prep Method: METHOD
Prep Date/Time: 03/10/20 15:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.544		0.400	0.120	mg/L	1		03/04/20 14:58

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 03/04/20 14:58
Container ID: 1200857003-E

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 03/04/20 11:45
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.94		1.00	0.310	mg/L	1		03/12/20 12:07

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Stantec**
Lab Sample ID: 1200857003
Lab Project ID: 1200857

Collection Date: 03/03/20 11:15
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Analyst: DMM
Analytical Date/Time: 03/12/20 12:07
Container ID: 1200857003-E

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 03/11/20 12:47
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Stantec**
Lab Sample ID: 1200857004
Lab Project ID: 1200857

Collection Date: 03/03/20 12:50
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	13.5		2.00	2.00	mg/L	1		03/03/20 17:47

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 03/03/20 17:47
Container ID: 1200857004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	16.7	U	16.7	16.7	col/100mL	1		03/03/20 16:58

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 03/03/20 16:58
Container ID: 1200857004-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		03/03/20 17:26
Total Coliform	32		1	1	MPN/100m	1		03/03/20 17:26

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/03/20 17:26
Container ID: 1200857004-D

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Stantec**
Lab Sample ID: 1200857004
Lab Project ID: 1200857

Collection Date: 03/03/20 12:50
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0620	J	0.200	0.0500	mg/L	1		03/04/20 13:16
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 13:16
Total Nitrate/Nitrite-N	0.0620	J	0.200	0.0500	mg/L	1		03/04/20 13:16

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/04/20 13:16
Container ID: 1200857004-B

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 03/04/20 09:45
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	1.57		0.100	0.0310	mg/L	1		03/10/20 18:04

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 03/10/20 18:04
Container ID: 1200857004-E

Prep Batch: WXX13216
Prep Method: METHOD
Prep Date/Time: 03/10/20 15:30
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.559		0.400	0.120	mg/L	1		03/04/20 15:14

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 03/04/20 15:14
Container ID: 1200857004-E

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 03/04/20 11:45
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.23		1.00	0.310	mg/L	1		03/12/20 12:09

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Stantec**
Lab Sample ID: 1200857004
Lab Project ID: 1200857

Collection Date: 03/03/20 12:50
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Analyst: DMM
Analytical Date/Time: 03/12/20 12:09
Container ID: 1200857004-E

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 03/11/20 12:47
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Stantec**
Lab Sample ID: 1200857005
Lab Project ID: 1200857

Collection Date: 03/03/20 14:01
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	8.10		2.00	2.00	mg/L	1		03/03/20 17:47

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 03/03/20 17:47
Container ID: 1200857005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		03/03/20 16:58

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 03/03/20 16:58
Container ID: 1200857005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		03/03/20 17:26
Total Coliform	69		1	1	MPN/100m	1		03/03/20 17:26

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Analyst: M.A
Analytical Date/Time: 03/03/20 17:26
Container ID: 1200857005-D

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Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Stantec**
Lab Sample ID: 1200857005
Lab Project ID: 1200857

Collection Date: 03/03/20 14:01
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 13:35
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 13:35
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/04/20 13:35

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/04/20 13:35
Container ID: 1200857005-B

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 03/04/20 09:45
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	23.2		2.00	0.620	mg/L	1		03/17/20 17:13

Batch Information

Analytical Batch: WDA4753
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/17/20 17:13
Container ID: 1200857005-E

Prep Batch: WXX13225
Prep Method: METHOD
Prep Date/Time: 03/17/20 15:30
Prep Initial Wt./Vol.: 0.3 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	3.37		0.800	0.240	mg/L	1		03/04/20 16:45

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 03/04/20 16:45
Container ID: 1200857005-E

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 03/04/20 11:45
Prep Initial Wt./Vol.: 1.25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	15.3		5.00	1.55	mg/L	5		03/12/20 12:47

Print Date: 03/19/2020 8:40:36AM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Stantec**
Lab Sample ID: 1200857005
Lab Project ID: 1200857

Collection Date: 03/03/20 14:01
Received Date: 03/03/20 16:15
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Analyst: DMM
Analytical Date/Time: 03/12/20 12:47
Container ID: 1200857005-E

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 03/11/20 12:47
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1804831 [BOD/6543]
Blank Lab ID: 1552604

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 5210B**

Parameter	Results	LOQ/CL	DL	Units
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD6543
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 3/3/2020 11:13:34AM

Print Date: 03/19/2020 8:40:38AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [BOD6543]
Blank Spike Lab ID: 1552605
Date Analyzed: 03/03/2020 11:13

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	208	105	(84.6-115.4

Batch Information

Analytical Batch: **BOD6543**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 03/19/2020 8:40:41AM

Method Blank

Blank ID: MB for HBN 1804823 [BTF/17953]
Blank Lab ID: 1552603

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 9222D**

Parameter	Results	LOQ/CL	DL	Units
Fecal Coliform	1.00U	1.00	1.00	col/100mL

Batch Information

Analytical Batch: BTF17953
Analytical Method: SM21 9222D
Instrument:
Analyst: A.A
Analytical Date/Time: 3/3/2020 4:58:00PM

Print Date: 03/19/2020 8:40:44AM

Method Blank

Blank ID: MB for HBN 1804825 [BTF/17955]
Blank Lab ID: 1552563

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 9223B**

Parameter	Results	LOQ/CL	DL	Units
Total Coliform	1U	1	1	MPN/100m
E. Coli	1U	1	1	MPN/100m

Batch Information

Analytical Batch: BTF17955
Analytical Method: SM21 9223B
Instrument:
Analyst: M.A
Analytical Date/Time: 3/3/2020 5:26:00PM

Print Date: 03/19/2020 8:40:48AM

Method Blank

Blank ID: MB for HBN 1804848 [STS/6614]
Blank Lab ID: 1552661

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	Units
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS6614
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 3/4/2020 3:09:22PM

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Duplicate Sample Summary

Original Sample ID: 1200804002
Duplicate Sample ID: 1552664
QC for Samples:

Analysis Date: 03/04/2020 15:09
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	111	134	mg/L	18.80*	(< 5)

Batch Information

Analytical Batch: STS6614
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 03/19/2020 8:40:54AM

Duplicate Sample Summary

Original Sample ID: 1200840002
Duplicate Sample ID: 1552665
QC for Samples:
1200857001, 1200857002

Analysis Date: 03/04/2020 15:09
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	26.0	25.7	mg/L	1.30	(< 5)

Batch Information

Analytical Batch: STS6614
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 03/19/2020 8:40:54AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [STS6614]
Blank Spike Lab ID: 1552662
Date Analyzed: 03/04/2020 15:09

Spike Duplicate ID: LCSD for HBN 1200857 [STS6614]
Spike Duplicate Lab ID: 1552663
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	22.9	92	25	22.2	89	(75-125)	3.10	(< 5)

Batch Information

Analytical Batch: **STS6614**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1804879 [WXX/13213]
Blank Lab ID: 1552782

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 4500P-B,E**

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0200U	0.0400	0.0120	mg/L

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/4/2020 2:52:39PM

Prep Batch: WXX13213
Prep Method: SM21 4500P-B,E
Prep Date/Time: 3/4/2020 11:45:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [WXX13213]
Blank Spike Lab ID: 1552783
Date Analyzed: 03/04/2020 14:53

Spike Duplicate ID: LCSD for HBN 1200857 [WXX13213]
Spike Duplicate Lab ID: 1552784
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.191	96	0.2	0.192	96	(75-125)	0.16	(< 25)

Batch Information

Analytical Batch: **WDA4746**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13213**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **03/04/2020 11:45**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1200857001
MS Sample ID: 1552785 MS
MSD Sample ID: 1552786 MSD

Analysis Date: 03/04/2020 15:18
Analysis Date: 03/04/2020 15:19
Analysis Date: 03/04/2020 15:20
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.199	0.200	.393	97	0.200	0.402	102	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4746
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/4/2020 3:19:33PM

Prep Batch: WXX13213
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 3/4/2020 11:45:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 03/19/2020 8:41:01AM

Method Blank

Blank ID: MB for HBN 1804918 [WXX/13215]
Blank Lab ID: 1552960

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0640J	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0960J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/4/2020 11:22:54AM

Prep Batch: WXX13215
Prep Method: METHOD
Prep Date/Time: 3/4/2020 9:45:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [WXX13215]
Blank Spike Lab ID: 1552961
Date Analyzed: 03/04/2020 11:41

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.92	98	(90-110)
Nitrite-N	5	4.86	97	(90-110)
Total Nitrate/Nitrite-N	10	9.78	98	(90-110)

Batch Information

Analytical Batch: **WIC6024**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13215**
Prep Method: **METHOD**
Prep Date/Time: **03/04/2020 09:45**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1552962
MS Sample ID: 1552963 MS
MSD Sample ID:

Analysis Date: 03/04/2020 14:51
Analysis Date: 03/04/2020 15:10
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **EPA 300.0**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	1.25	5.00	5.31	81	*				90-110		
Nitrite-N	0.100U	5.00	3.84	77	*				90-110		

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/4/2020 3:10:57PM

Prep Batch: WXX13215
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 3/4/2020 9:45:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 03/19/2020 8:41:06AM

Matrix Spike Summary

Original Sample ID: 1552964
MS Sample ID: 1552965 MS
MSD Sample ID:

Analysis Date: 03/04/2020 16:26
Analysis Date: 03/04/2020 16:45
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **EPA 300.0**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.0630J	5.00	4.26	84	*				90-110		
Nitrite-N	0.100U	5.00	4.1	82	*				90-110		

Batch Information

Analytical Batch: WIC6024
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/4/2020 4:45:51PM

Prep Batch: WXX13215
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 3/4/2020 9:45:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 03/19/2020 8:41:06AM

Method Blank

Blank ID: MB for HBN 1804979 [WXX/13216]
Blank Lab ID: 1553172

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0500U	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 3/10/2020 5:44:02PM

Prep Batch: WXX13216
Prep Method: METHOD
Prep Date/Time: 3/10/2020 3:30:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [WXX13216]
Blank Spike Lab ID: 1553173
Date Analyzed: 03/10/2020 17:45

Spike Duplicate ID: LCSD for HBN 1200857 [WXX13216]
Spike Duplicate Lab ID: 1553174
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.14	114	1	1.06	106	(75-125)	7.30	(< 25)

Batch Information

Analytical Batch: **WDA4747**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13216**
Prep Method: **METHOD**
Prep Date/Time: **03/10/2020 15:30**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1200857001
MS Sample ID: 1553175 MS
MSD Sample ID: 1553176 MSD

Analysis Date: 03/10/2020 17:52
Analysis Date: 03/10/2020 17:54
Analysis Date: 03/10/2020 17:55
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.446	1.00	1.36	92	1.00	1.46	101	75-125	6.80	(< 25)

Batch Information

Analytical Batch: WDA4747
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 3/10/2020 5:54:04PM

Prep Batch: WXX13216
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 3/10/2020 3:30:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

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Method Blank

Blank ID: MB for HBN 1805072 [WXX/13222]
Blank Lab ID: 1553518

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM23 4500-N D**

Parameter	Results	LOQ/CL	DL	Units
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/12/2020 11:48:32AM

Prep Batch: WXX13222
Prep Method: METHOD
Prep Date/Time: 3/11/2020 12:47:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [WXX13222]
Blank Spike Lab ID: 1553519
Date Analyzed: 03/12/2020 11:49

Spike Duplicate ID: LCSD for HBN 1200857 [WXX13222]
Spike Duplicate Lab ID: 1553520
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM23 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.67	92	4	4.06	102	(75-125)	10.10	(< 25)

Batch Information

Analytical Batch: **WDA4751**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13222**
Prep Method: **METHOD**
Prep Date/Time: **03/11/2020 12:47**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1200005003
MS Sample ID: 1553521 MS
MSD Sample ID: 1553522 MSD

Analysis Date: 03/12/2020 11:52
Analysis Date: 03/12/2020 11:53
Analysis Date: 03/12/2020 11:55
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857001, 1200857002, 1200857003, 1200857004, 1200857005

Results by **SM23 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	3.58	90	4.00	3.66	92	75-125	2.20	(< 25)

Batch Information

Analytical Batch: WDA4751
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/12/2020 11:53:47AM

Prep Batch: WXX13222
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 3/11/2020 12:47:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 03/19/2020 8:41:16AM

Method Blank

Blank ID: MB for HBN 1805152 [WXX/13225]
Blank Lab ID: 1553791

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1200857005

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0500U	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4753
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/17/2020 4:07:37PM

Prep Batch: WXX13225
Prep Method: METHOD
Prep Date/Time: 3/17/2020 3:30:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1200857 [WXX13225]
Blank Spike Lab ID: 1553792
Date Analyzed: 03/17/2020 16:09

Spike Duplicate ID: LCSD for HBN 1200857 [WXX13225]
Spike Duplicate Lab ID: 1553793
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200857005

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.00	100	1	1.17	117	(75-125)	15.40	(< 25)

Batch Information

Analytical Batch: **WDA4753**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13225**
Prep Method: **METHOD**
Prep Date/Time: **03/17/2020 15:30**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1201022003
MS Sample ID: 1553794 MS
MSD Sample ID: 1553795 MSD

QC for Samples: 1200857005

Analysis Date: 03/17/2020 17:08
Analysis Date: 03/17/2020 17:09
Analysis Date: 03/17/2020 17:11
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	1.13	113	1.00	0.955	96	75-125	16.30	(< 25)

Batch Information

Analytical Batch: WDA4753
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/17/2020 5:09:57PM

Prep Batch: WXX13225
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 3/17/2020 3:30:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 03/19/2020 8:41:21AM

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1200857

Locations Nationwide
Alaska, Maryland, New Jersey, New York, North Carolina, Indiana, West Virgina, Kentucky
www.us.sgs.com

Instructions: ... led out. Omissions may delay the onset of analysis.

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Jake Alward   PHONE NO: 343-5202

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL: jake.alward@stantec.com

INVOICE TO: QUOTE #: 2047E00415
P.O. #:

Section 3 — Preservative

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	BOD	TSS	Nitrate/Nitrite	FC (Na_2SO_4)	TC (quant) 1x10x (Na_2SO_4)	TKN/Ammonia/TP (H_2SO_4)					REMARKS/ LOC ID
① A-F	SW18	3/3/20	10:11	Water	6	G	\	\	\	\	\	\					
② A-F	SW17	↓	10:45	↓	6	↓	\	\	\	\	\	\					
③ A-E	SW15	↓	11:15	↓	5	↓	\		\	\	\	\					
④ A-E	SW1	↓	12:50	↓	5	↓	\		\	\	\	\					
⑤ A-E	SW9	↓	14:01	↓	5	↓	\		\	\	\	\					

Section 5

Relinquished By:	Date	Time	Received By:
(1) [signature]	3/3/20		
(2)			
(3)			
(4)	3/3/20	1615	Received For Laboratory By: [signature]

Section 4 DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID: ______

Requested Turnaround Time and/or Special Instructions: Profile #348183

Temp Blank °C: 0.1 D51
or Ambient [ ]
(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
INTACT BROKEN (ABSENT)
(See attached Sample Receipt Form)

[ ] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

e-Sample Receipt Form

SGS Workorder #: **1200857**

1200857

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		Yes — Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	absent
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
Yes — **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 0.1 °C Therm. ID: D51
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
N/A — ***Exemption permitted for metals (e.g,200.8/6020A).		
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1200857001-A	No Preservative Required	OK			
1200857001-B	No Preservative Required	OK			
1200857001-C	No Preservative Required	OK			
1200857001-D	Na2S2O3 for Chlorine Redu	OK			
1200857001-E	Na2S2O3 for Chlorine Redu	OK			
1200857001-F	H2SO4 to pH < 2	OK			
1200857002-A	No Preservative Required	OK			
1200857002-B	No Preservative Required	OK			
1200857002-C	No Preservative Required	OK			
1200857002-D	Na2S2O3 for Chlorine Redu	OK			
1200857002-E	Na2S2O3 for Chlorine Redu	OK			
1200857002-F	H2SO4 to pH < 2	OK			
1200857003-A	No Preservative Required	OK			
1200857003-B	No Preservative Required	OK			
1200857003-C	Na2S2O3 for Chlorine Redu	OK			
1200857003-D	Na2S2O3 for Chlorine Redu	OK			
1200857003-E	H2SO4 to pH < 2	OK			
1200857004-A	No Preservative Required	OK			
1200857004-B	No Preservative Required	OK			
1200857004-C	Na2S2O3 for Chlorine Redu	OK			
1200857004-D	Na2S2O3 for Chlorine Redu	OK			
1200857004-E	H2SO4 to pH < 2	OK			
1200857005-A	No Preservative Required	OK			
1200857005-B	No Preservative Required	OK			
1200857005-C	Na2S2O3 for Chlorine Redu	OK			
1200857005-D	Na2S2O3 for Chlorine Redu	OK			
1200857005-E	H2SO4 to pH < 2	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.

Laboratory Report of Analysis

To: Stantec Consulting Services Inc.
725 East Fireweed Lane Suite 200
Anchorage, AK 99503
(907)248-8883

Report Number: **1201198**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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 Date
Project Manager
Justin.Nelson@sgs.com

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1201198**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1201145001(1554596MS) (1554599) MS

300.0 - Anions - MS recovery for sulfate is outside of QC criteria. Refer to LCS for accuracy requirements.

1201198001MS (1554699) MS

4500NH3-G - Ammonia - MS recovery is outside of QC criteria. Refer to LCS for accuracy requirements.

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

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Laboratory Qualifiers

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

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

SGS maintains a formal Quality Assurance/Quality Control (QA/QC) program. A copy of our Quality Assurance Plan (QAP), which outlines this program, is available at your request. The laboratory certification numbers are AK00971 (DW Chemistry & Microbiology) & 17-021 (CS) for ADEC and 2944.01 for DOD ELAP/ISO17025 (RCRA methods: 1020B, 1311, 3010A, 3050B, 3520C, 3550C, 5030B, 5035A, 6020A, 7470A, 7471B, 8015C, 8021B, 8082A, 8260C, 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
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

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW20	1201198001	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
MW14A	1201198002	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
MW10	1201198003	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
MW15	1201198004	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
B4	1201198005	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
MW6	1201198006	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
B11	1201198007	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
SW17	1201198008	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
SW18	1201198009	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)
DUP1	1201198010	03/26/2020	03/26/2020	Water (Surface, Eff., Ground)

Method	Method Description
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
EPA 300.0	Ion Chromatographic Analysis
SW6020B	Metals by ICP-MS
SM23 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **MW20**
Lab Sample ID: 1201198001

	Parameter	Result	Units
Metals by ICP/MS	Barium	9.85	ug/L
	Copper	3.30J	ug/L
	Lead	0.493J	ug/L
	Zinc	41.2	ug/L
Waters Department	Nitrate-N	0.319	mg/L
	Total Nitrate/Nitrite-N	0.346	mg/L

Client Sample ID: **MW14A**
Lab Sample ID: 1201198002

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	5.11J	ug/L
	Barium	11.0	ug/L
	Chromium	3.29J	ug/L
	Copper	3.16J	ug/L
	Lead	0.718J	ug/L
	Zinc	49.8	ug/L
Waters Department	Ammonia-N	0.0503J	mg/L
	Nitrate-N	0.163J	mg/L
	Total Nitrate/Nitrite-N	0.163J	mg/L

Client Sample ID: **MW10**
Lab Sample ID: 1201198003

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	3.50J	ug/L
	Barium	47.3	ug/L
	Copper	5.79J	ug/L
	Lead	0.712J	ug/L
	Zinc	39.1	ug/L
Waters Department	Ammonia-N	0.0605J	mg/L
	Nitrate-N	0.0960J	mg/L
	Total Nitrate/Nitrite-N	0.129J	mg/L

Client Sample ID: **MW15**
Lab Sample ID: 1201198004

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	22.9J	ug/L
	Barium	550	ug/L
	Chromium	166	ug/L
	Copper	209	ug/L
	Lead	25.4	ug/L
	Zinc	412	ug/L
Waters Department	Ammonia-N	0.308	mg/L

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Detectable Results Summary

Client Sample ID: **B4**
Lab Sample ID: 1201198005

	Parameter	Result	Units
Metals by ICP/MS	Barium	22.4	ug/L
	Copper	8.29	ug/L
	Lead	1.67	ug/L
	Zinc	43.0	ug/L
Waters Department	Nitrate-N	1.38	mg/L
	Total Nitrate/Nitrite-N	1.38	mg/L

Client Sample ID: **MW6**
Lab Sample ID: 1201198006

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	11.8	ug/L
	Barium	14.8	ug/L
	Copper	3.36J	ug/L
	Lead	0.488J	ug/L
	Zinc	35.6	ug/L
Waters Department	Ammonia-N	0.121	mg/L

Client Sample ID: **B11**
Lab Sample ID: 1201198007

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	7.87	ug/L
	Barium	64.6	ug/L
	Chromium	5.50J	ug/L
	Copper	16.8	ug/L
	Lead	2.07	ug/L
	Zinc	48.7	ug/L
Waters Department	Ammonia-N	0.187	mg/L
	Total Nitrate/Nitrite-N	0.0540J	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1201198008

	Parameter	Result	Units
Metals by ICP/MS	Barium	22.8	ug/L
	Copper	9.40	ug/L
	Zinc	35.2	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	2.35	mg/L
	Fecal Coliform	2.0	col/100mL
	Total Coliform	53	MPN/100mL
Waters Department	Ammonia-N	0.646	mg/L
	Nitrate-N	2.54	mg/L
	Total Kjeldahl Nitrogen	0.658J	mg/L
	Total Nitrate/Nitrite-N	2.57	mg/L
	Total Phosphorus	0.0917	mg/L
	Total Suspended Solids	3.74	mg/L

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Detectable Results Summary

Client Sample ID: **SW18**
Lab Sample ID: 1201198009

	Parameter	Result	Units
Metals by ICP/MS	Barium	22.8	ug/L
	Copper	18.3	ug/L
	Zinc	39.7	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	2.65	mg/L
	E. Coli	2	MPN/100mL
	Total Coliform	66	MPN/100mL
Waters Department	Ammonia-N	0.617	mg/L
	Nitrate-N	3.32	mg/L
	Total Kjeldahl Nitrogen	0.746J	mg/L
	Total Nitrate/Nitrite-N	3.36	mg/L
	Total Phosphorus	0.344	mg/L
	Total Suspended Solids	3.47	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1201198010

	Parameter	Result	Units
Metals by ICP/MS	Barium	20.9	ug/L
	Copper	9.64	ug/L
	Zinc	38.3	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	2.29	mg/L
	E. Coli	1	MPN/100mL
	Total Coliform	28	MPN/100mL
Waters Department	Ammonia-N	0.679	mg/L
	Nitrate-N	2.58	mg/L
	Total Kjeldahl Nitrogen	0.545J	mg/L
	Total Nitrate/Nitrite-N	2.61	mg/L
	Total Phosphorus	0.0865	mg/L
	Total Suspended Solids	0.900J	mg/L

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Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198001
Lab Project ID: 1201198

Collection Date: 03/26/20 10:05
Received Date: 03/26/20 16:11
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
Arsenic	3.00	U	6.00	2.50	ug/L	5		04/09/20 10:43
Barium	9.85		3.00	0.940	ug/L	5		04/09/20 10:43
Cadmium	1.00	U	2.00	0.620	ug/L	5		04/09/20 10:43
Chromium	5.00	U	10.0	3.10	ug/L	5		04/09/20 10:43
Copper	3.30	J	6.00	1.80	ug/L	5		04/09/20 10:43
Lead	0.493	J	1.00	0.310	ug/L	5		04/09/20 10:43
Mercury	0.250	U	0.500	0.180	ug/L	5		04/09/20 10:43
Selenium	10.0	U	20.0	6.20	ug/L	5		04/09/20 10:43
Silver	1.00	U	2.00	0.620	ug/L	5		04/09/20 10:43
Zinc	41.2		25.0	7.80	ug/L	5		04/09/20 10:43

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 10:43
Container ID: 1201198001-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198001
Lab Project ID: 1201198

Collection Date: 03/26/20 10:05
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198001-B

Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198001
Lab Project ID: 1201198

Collection Date: 03/26/20 10:05
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.319		0.200	0.0500	mg/L	1		03/27/20 09:11
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		03/27/20 09:11
Total Nitrate/Nitrite-N	0.346		0.200	0.0500	mg/L	1		03/27/20 09:11

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 09:11
Container ID: 1201198001-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		03/31/20 09:55

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 09:55
Container ID: 1201198001-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		04/01/20 17:08

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:08
Container ID: 1201198001-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW14A**

Client Sample ID: **MW14A**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198002
Lab Project ID: 1201198

Collection Date: 03/26/20 10:45
Received Date: 03/26/20 16:11
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
Arsenic	5.11	J	6.00	2.50	ug/L	5		04/09/20 10:57
Barium	11.0		3.00	0.940	ug/L	5		04/09/20 10:57
Cadmium	1.00	U	2.00	0.620	ug/L	5		04/09/20 10:57
Chromium	3.29	J	10.0	3.10	ug/L	5		04/09/20 10:57
Copper	3.16	J	6.00	1.80	ug/L	5		04/09/20 10:57
Lead	0.718	J	1.00	0.310	ug/L	5		04/09/20 10:57
Mercury	0.250	U	0.500	0.180	ug/L	5		04/09/20 10:57
Selenium	10.0	U	20.0	6.20	ug/L	5		04/09/20 10:57
Silver	1.00	U	2.00	0.620	ug/L	5		04/09/20 10:57
Zinc	49.8		25.0	7.80	ug/L	5		04/09/20 10:57

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 10:57
Container ID: 1201198002-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **MW14A**

Client Sample ID: **MW14A**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198002
Lab Project ID: 1201198

Collection Date: 03/26/20 10:45
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198002-B

Results of **MW14A**

Client Sample ID: **MW14A**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198002
Lab Project ID: 1201198

Collection Date: 03/26/20 10:45
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.163	J	0.200	0.0500	mg/L	1		03/27/20 09:30
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 09:30
Total Nitrate/Nitrite-N	0.163	J	0.200	0.0500	mg/L	1		03/27/20 09:30

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 09:30
Container ID: 1201198002-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0503	J	0.100	0.0310	mg/L	1		03/31/20 10:00

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:00
Container ID: 1201198002-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		04/01/20 17:09

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:09
Container ID: 1201198002-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198003
Lab Project ID: 1201198

Collection Date: 03/26/20 11:40
Received Date: 03/26/20 16:11
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
Arsenic	3.50	J	6.00	2.50	ug/L	5		04/09/20 11:02
Barium	47.3		3.00	0.940	ug/L	5		04/09/20 11:02
Cadmium	1.00	U	2.00	0.620	ug/L	5		04/09/20 11:02
Chromium	5.00	U	10.0	3.10	ug/L	5		04/09/20 11:02
Copper	5.79	J	6.00	1.80	ug/L	5		04/09/20 11:02
Lead	0.712	J	1.00	0.310	ug/L	5		04/09/20 11:02
Mercury	0.250	U	0.500	0.180	ug/L	5		04/09/20 11:02
Selenium	10.0	U	20.0	6.20	ug/L	5		04/09/20 11:02
Silver	1.00	U	2.00	0.620	ug/L	5		04/09/20 11:02
Zinc	39.1		25.0	7.80	ug/L	5		04/09/20 11:02

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 11:02
Container ID: 1201198003-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198003
Lab Project ID: 1201198

Collection Date: 03/26/20 11:40
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198003-B

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198003
Lab Project ID: 1201198

Collection Date: 03/26/20 11:40
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0960	J	0.200	0.0500	mg/L	1		03/27/20 09:49
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 09:49
Total Nitrate/Nitrite-N	0.129	J	0.200	0.0500	mg/L	1		03/27/20 09:49

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 09:49
Container ID: 1201198003-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0605	J	0.100	0.0310	mg/L	1		03/31/20 10:02

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:02
Container ID: 1201198003-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		04/01/20 17:11

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:11
Container ID: 1201198003-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198004
Lab Project ID: 1201198

Collection Date: 03/26/20 11:55
Received Date: 03/26/20 16:11
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
Arsenic	22.9	J	30.0	12.5	ug/L	5		04/09/20 11:07
Barium	550		15.0	4.70	ug/L	5		04/09/20 11:07
Cadmium	5.00	U	10.0	3.10	ug/L	5		04/09/20 11:07
Chromium	166		50.0	15.5	ug/L	5		04/09/20 11:07
Copper	209		30.0	9.00	ug/L	5		04/09/20 11:07
Lead	25.4		5.00	1.55	ug/L	5		04/09/20 11:07
Mercury	1.25	U	2.50	0.900	ug/L	5		04/09/20 11:07
Selenium	50.0	U	100	31.0	ug/L	5		04/09/20 11:07
Silver	5.00	U	10.0	3.10	ug/L	5		04/09/20 11:07
Zinc	412		125	39.0	ug/L	5		04/09/20 11:07

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 11:07
Container ID: 1201198004-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198004
Lab Project ID: 1201198

Collection Date: 03/26/20 11:55
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.50	U	1.50	1.50	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198004-B

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Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198004
Lab Project ID: 1201198

Collection Date: 03/26/20 11:55
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:08
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:08
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:08

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 10:08
Container ID: 1201198004-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.308		0.100	0.0310	mg/L	1		03/31/20 10:03

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:03
Container ID: 1201198004-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		04/01/20 17:12

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:12
Container ID: 1201198004-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198005
Lab Project ID: 1201198

Collection Date: 03/26/20 12:17
Received Date: 03/26/20 16:11
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
Arsenic	3.00 U		6.00	2.50	ug/L	5		04/09/20 11:12
Barium	22.4		3.00	0.940	ug/L	5		04/09/20 11:12
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:12
Chromium	5.00 U		10.0	3.10	ug/L	5		04/09/20 11:12
Copper	8.29		6.00	1.80	ug/L	5		04/09/20 11:12
Lead	1.67		1.00	0.310	ug/L	5		04/09/20 11:12
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 11:12
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 11:12
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:12
Zinc	43.0		25.0	7.80	ug/L	5		04/09/20 11:12

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 11:12
Container ID: 1201198005-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198005
Lab Project ID: 1201198

Collection Date: 03/26/20 12:17
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198005-B

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198005
Lab Project ID: 1201198

Collection Date: 03/26/20 12:17
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	1.38		0.200	0.0500	mg/L	1		03/27/20 10:27
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		03/27/20 10:27
Total Nitrate/Nitrite-N	1.38		0.200	0.0500	mg/L	1		03/27/20 10:27

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 10:27
Container ID: 1201198005-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		03/31/20 10:05

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:05
Container ID: 1201198005-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		04/01/20 17:13

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:13
Container ID: 1201198005-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198006
Lab Project ID: 1201198

Collection Date: 03/26/20 12:15
Received Date: 03/26/20 16:11
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
Arsenic	11.8		6.00	2.50	ug/L	5		04/09/20 11:35
Barium	14.8		3.00	0.940	ug/L	5		04/09/20 11:35
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:35
Chromium	5.00 U		10.0	3.10	ug/L	5		04/09/20 11:35
Copper	3.36 J		6.00	1.80	ug/L	5		04/09/20 11:35
Lead	0.488 J		1.00	0.310	ug/L	5		04/09/20 11:35
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 11:35
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 11:35
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:35
Zinc	35.6		25.0	7.80	ug/L	5		04/09/20 11:35

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 11:35
Container ID: 1201198006-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198006
Lab Project ID: 1201198

Collection Date: 03/26/20 12:15
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198006-B

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Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198006
Lab Project ID: 1201198

Collection Date: 03/26/20 12:15
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:46
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:46
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 10:46

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 10:46
Container ID: 1201198006-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.121		0.100	0.0310	mg/L	1		03/31/20 10:10

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:10
Container ID: 1201198006-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		04/01/20 17:14

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:14
Container ID: 1201198006-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198007
Lab Project ID: 1201198

Collection Date: 03/26/20 13:05
Received Date: 03/26/20 16:11
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
Arsenic	7.87		6.00	2.50	ug/L	5		04/09/20 11:40
Barium	64.6		3.00	0.940	ug/L	5		04/09/20 11:40
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:40
Chromium	5.50 J		10.0	3.10	ug/L	5		04/09/20 11:40
Copper	16.8		6.00	1.80	ug/L	5		04/09/20 11:40
Lead	2.07		1.00	0.310	ug/L	5		04/09/20 11:40
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 11:40
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 11:40
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 11:40
Zinc	48.7		25.0	7.80	ug/L	5		04/09/20 11:40

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 11:40
Container ID: 1201198007-D

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198007
Lab Project ID: 1201198

Collection Date: 03/26/20 13:05
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198007-B

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198007
Lab Project ID: 1201198

Collection Date: 03/26/20 13:05
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 11:43
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 11:43
Total Nitrate/Nitrite-N	0.0540	J	0.200	0.0500	mg/L	1		03/27/20 11:43

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 11:43
Container ID: 1201198007-A

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.187		0.100	0.0310	mg/L	1		03/31/20 10:12

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:12
Container ID: 1201198007-C

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500	U	1.00	0.310	mg/L	1		04/01/20 17:18

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:18
Container ID: 1201198007-C

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198008
Lab Project ID: 1201198

Collection Date: 03/26/20 13:30
Received Date: 03/26/20 16:11
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
Arsenic	3.00 U		6.00	2.50	ug/L	5		04/09/20 12:03
Barium	22.8		3.00	0.940	ug/L	5		04/09/20 12:03
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:03
Chromium	5.00 U		10.0	3.10	ug/L	5		04/09/20 12:03
Copper	9.40		6.00	1.80	ug/L	5		04/09/20 12:03
Lead	0.500 U		1.00	0.310	ug/L	5		04/09/20 12:03
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 12:03
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 12:03
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:03
Zinc	35.2		25.0	7.80	ug/L	5		04/09/20 12:03

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 12:03
Container ID: 1201198008-G

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198008
Lab Project ID: 1201198

Collection Date: 03/26/20 13:30
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.35		2.00	2.00	mg/L	1		03/27/20 13:22

Batch Information

Analytical Batch: BOD6564
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 03/27/20 13:22
Container ID: 1201198008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		03/27/20 14:47
Total Coliform	53		1	1	MPN/100m	1		03/27/20 14:47

Batch Information

Analytical Batch: BTF18003
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 03/27/20 14:47
Container ID: 1201198008-D

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198008
Lab Project ID: 1201198

Collection Date: 03/26/20 13:30
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.54		0.200	0.0500	mg/L	1		03/27/20 12:02
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		03/27/20 12:02
Total Nitrate/Nitrite-N	2.57		0.200	0.0500	mg/L	1		03/27/20 12:02

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 12:02
Container ID: 1201198008-C

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.74		1.01	0.313	mg/L	1		03/31/20 17:04

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 03/31/20 17:04
Container ID: 1201198008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.646		0.100	0.0310	mg/L	1		03/31/20 10:13

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:13
Container ID: 1201198008-F

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0917		0.0400	0.0120	mg/L	1		04/06/20 08:41

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198008
Lab Project ID: 1201198

Collection Date: 03/26/20 13:30
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4765
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/06/20 08:41
Container ID: 1201198008-F

Prep Batch: WXX13243
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/06/20 07:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.658	J	1.00	0.310	mg/L	1		04/01/20 17:20

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:20
Container ID: 1201198008-F

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198009
Lab Project ID: 1201198

Collection Date: 03/26/20 14:00
Received Date: 03/26/20 16:11
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
Arsenic	3.00 U		6.00	2.50	ug/L	5		04/09/20 12:08
Barium	22.8		3.00	0.940	ug/L	5		04/09/20 12:08
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:08
Chromium	5.00 U		10.0	3.10	ug/L	5		04/09/20 12:08
Copper	18.3		6.00	1.80	ug/L	5		04/09/20 12:08
Lead	0.500 U		1.00	0.310	ug/L	5		04/09/20 12:08
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 12:08
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 12:08
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:08
Zinc	39.7		25.0	7.80	ug/L	5		04/09/20 12:08

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 12:08
Container ID: 1201198009-G

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198009
Lab Project ID: 1201198

Collection Date: 03/26/20 14:00
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.65		2.00	2.00	mg/L	1		03/27/20 13:22

Batch Information

Analytical Batch: BOD6564
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 03/27/20 13:22
Container ID: 1201198009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		03/27/20 14:47
Total Coliform	66		1	1	MPN/100m	1		03/27/20 14:47

Batch Information

Analytical Batch: BTF18003
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 03/27/20 14:47
Container ID: 1201198009-D

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198009
Lab Project ID: 1201198

Collection Date: 03/26/20 14:00
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.32		0.200	0.0500	mg/L	1		03/27/20 12:21
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		03/27/20 12:21
Total Nitrate/Nitrite-N	3.36		0.200	0.0500	mg/L	1		03/27/20 12:21

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 12:21
Container ID: 1201198009-C

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.47		0.990	0.307	mg/L	1		03/31/20 17:04

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 03/31/20 17:04
Container ID: 1201198009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.617		0.100	0.0310	mg/L	1		03/31/20 10:15

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:15
Container ID: 1201198009-F

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.344		0.200	0.0600	mg/L	1		04/06/20 10:27

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198009
Lab Project ID: 1201198

Collection Date: 03/26/20 14:00
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4765
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/06/20 10:27
Container ID: 1201198009-F

Prep Batch: WXX13243
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/06/20 09:14
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.746	J	1.00	0.310	mg/L	1		04/01/20 17:21

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:21
Container ID: 1201198009-F

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198010
Lab Project ID: 1201198

Collection Date: 03/26/20 13:07
Received Date: 03/26/20 16:11
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
Arsenic	3.00 U		6.00	2.50	ug/L	5		04/09/20 12:13
Barium	20.9		3.00	0.940	ug/L	5		04/09/20 12:13
Cadmium	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:13
Chromium	5.00 U		10.0	3.10	ug/L	5		04/09/20 12:13
Copper	9.64		6.00	1.80	ug/L	5		04/09/20 12:13
Lead	0.500 U		1.00	0.310	ug/L	5		04/09/20 12:13
Mercury	0.250 U		0.500	0.180	ug/L	5		04/09/20 12:13
Selenium	10.0 U		20.0	6.20	ug/L	5		04/09/20 12:13
Silver	1.00 U		2.00	0.620	ug/L	5		04/09/20 12:13
Zinc	38.3		25.0	7.80	ug/L	5		04/09/20 12:13

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Analyst: DMM
Analytical Date/Time: 04/09/20 12:13
Container ID: 1201198010-G

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 04/01/20 13:40
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198010
Lab Project ID: 1201198

Collection Date: 03/26/20 13:07
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.29		2.00	2.00	mg/L	1		03/27/20 13:22

Batch Information

Analytical Batch: BOD6564
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 03/27/20 13:22
Container ID: 1201198010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		03/26/20 17:57

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 03/26/20 17:57
Container ID: 1201198010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		03/27/20 14:47
Total Coliform	28		1	1	MPN/100m	1		03/27/20 14:47

Batch Information

Analytical Batch: BTF18003
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 03/27/20 14:47
Container ID: 1201198010-D

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198010
Lab Project ID: 1201198

Collection Date: 03/26/20 13:07
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.58		0.200	0.0500	mg/L	1		03/27/20 12:40
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		03/27/20 12:40
Total Nitrate/Nitrite-N	2.61		0.200	0.0500	mg/L	1		03/27/20 12:40

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 03/27/20 12:40
Container ID: 1201198010-C

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 03/27/20 07:05
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.900 J		1.00	0.310	mg/L	1		03/31/20 17:04

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 03/31/20 17:04
Container ID: 1201198010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.679		0.100	0.0310	mg/L	1		03/31/20 10:17

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 03/31/20 10:17
Container ID: 1201198010-F

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 03/31/20 08:57
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0865		0.0400	0.0120	mg/L	1		04/06/20 08:45

Print Date: 04/10/2020 3:25:14PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1201198010
Lab Project ID: 1201198

Collection Date: 03/26/20 13:07
Received Date: 03/26/20 16:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4765
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 04/06/20 08:45
Container ID: 1201198010-F

Prep Batch: WXX13243
Prep Method: SM21 4500P-B,E
Prep Date/Time: 04/06/20 07:24
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.545	J	1.00	0.310	mg/L	1		04/01/20 17:22

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 04/01/20 17:22
Container ID: 1201198010-F

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 04/01/20 10:21
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1805348 [BOD/6564]
Blank Lab ID: 1554519

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198008, 1201198009, 1201198010

Results by **SM21 5210B**

Parameter	Results	LOQ/CL	DL	Units
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L

Batch Information

Analytical Batch: BOD6564
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 3/27/2020 1:22:34PM

Print Date: 04/10/2020 3:25:17PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [BOD6564]
Blank Spike Lab ID: 1554520
Date Analyzed: 03/27/2020 13:22

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198008, 1201198009, 1201198010

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	226	114	(84.6-115.4

Batch Information

Analytical Batch: **BOD6564**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 04/10/2020 3:25:19PM

Method Blank

Blank ID: MB for HBN 1805334 [BTF/18002]
Blank Lab ID: 1554494

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM21 9222D**

Parameter	Results	LOQ/CL	DL	Units
Fecal Coliform	1.00U	1.00	1.00	col/100mL

Batch Information

Analytical Batch: BTF18002
Analytical Method: SM21 9222D
Instrument:
Analyst: VAB
Analytical Date/Time: 3/26/2020 5:57:13PM

Print Date: 04/10/2020 3:25:20PM

Method Blank

Blank ID: MB for HBN 1805344 [BTF/18003]
Blank Lab ID: 1554511

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198008, 1201198009, 1201198010

Results by **SM21 9223B**

Parameter	Results	LOQ/CL	DL	Units
Total Coliform	1U	1	1	MPN/100m
E. Coli	1U	1	1	MPN/100m

Batch Information

Analytical Batch: BTF18003
Analytical Method: SM21 9223B
Instrument:
Analyst: VAB
Analytical Date/Time: 3/27/2020 2:47:00PM

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Method Blank

Blank ID: MB for HBN 1805429 [MXX/33224]
Blank Lab ID: 1554884

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SW6020B**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	3.00U	6.00	2.50	ug/L
Barium	1.50U	3.00	0.940	ug/L
Cadmium	1.00U	2.00	0.620	ug/L
Chromium	5.00U	10.0	3.10	ug/L
Copper	3.00U	6.00	1.80	ug/L
Lead	0.500U	1.00	0.310	ug/L
Mercury	0.250U	0.500	0.180	ug/L
Selenium	10.0U	20.0	6.20	ug/L
Silver	1.00U	2.00	0.620	ug/L
Zinc	9.28J	25.0	7.80	ug/L

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 4/9/2020 11:59:01AM

Prep Batch: MXX33224
Prep Method: SW3010A
Prep Date/Time: 4/1/2020 1:40:40PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [MXX33224]
Blank Spike Lab ID: 1554885
Date Analyzed: 04/09/2020 10:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SW6020B**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	1040	104	(84-116)
Barium	1000	1010	101	(86-114)
Cadmium	100	98.8	99	(87-115)
Chromium	400	465	116	(85-116)
Copper	1000	1120	112	(85-118)
Lead	1000	1070	107	(88-115)
Mercury	10	10.4	104	(70-124)
Selenium	1000	1010	101	(80-120)
Silver	100	107	107	(85-116)
Zinc	1000	1110	111	(83-119)

Batch Information

Analytical Batch: **MMS10774**
Analytical Method: **SW6020B**
Instrument: **Perkin Elmer Nexion P5**
Analyst: **DMM**

Prep Batch: **MXX33224**
Prep Method: **SW3010A**
Prep Date/Time: **04/01/2020 13:40**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1201198005
MS Sample ID: 1554886 MS
MSD Sample ID: 1554887 MSD

Analysis Date: 04/09/2020 11:12
Analysis Date: 04/09/2020 11:16
Analysis Date: 04/09/2020 11:21
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SW6020B**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Arsenic	3.00U	1000	1040	104	1000	1040	104	84-116	0.82	(< 20)
Barium	22.4	1000	988	97	1000	1000	98	86-114	1.53	(< 20)
Cadmium	1.00U	100	95.8	96	100	97.4	97	87-115	1.63	(< 20)
Chromium	5.00U	400	402	100	400	405	101	85-116	0.74	(< 20)
Copper	8.29	1000	1010	100	1000	1040	104	85-118	3.42	(< 20)
Lead	1.67	1000	1050	105	1000	1070	107	88-115	2.10	(< 20)
Mercury	0.250U	10.0	10	100	10.0	10.3	103	70-124	3.23	(< 20)
Selenium	10.0U	1000	1030	103	1000	1020	102	80-120	0.68	(< 20)
Silver	1.00U	100	107	107	100	111	111	85-116	3.23	(< 20)
Zinc	43.0	1000	1020	98	1000	1020	98	83-119	0.16	(< 20)

Batch Information

Analytical Batch: MMS10774
Analytical Method: SW6020B
Instrument: Perkin Elmer Nexlon P5
Analyst: DMM
Analytical Date/Time: 4/9/2020 11:16:45AM

Prep Batch: MXX33224
Prep Method: 3010 H20 Digest for Metals ICP-MS
Prep Date/Time: 4/1/2020 1:40:40PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 04/10/2020 3:25:30PM

Method Blank

Blank ID: MB for HBN 1805394 [STS/6635]
Blank Lab ID: 1554744

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198008, 1201198009, 1201198010

Results by **SM21 2540D**

Parameter	Results	LOQ/CL	DL	Units
Total Suspended Solids	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 3/31/2020 5:04:11PM

Print Date: 04/10/2020 3:25:31PM

Duplicate Sample Summary

Original Sample ID: 1201177002
Duplicate Sample ID: 1554747
QC for Samples:

Analysis Date: 03/31/2020 17:04
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	522	514	mg/L	1.50	(< 5)

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 04/10/2020 3:25:32PM

Duplicate Sample Summary

Original Sample ID: 1201189001
Duplicate Sample ID: 1554748
QC for Samples:
1201198008, 1201198009, 1201198010

Analysis Date: 03/31/2020 17:04
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	50.2	50.8	mg/L	1.20	(< 5)

Batch Information

Analytical Batch: STS6635
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 04/10/2020 3:25:32PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [STS6635]
Blank Spike Lab ID: 1554745
Date Analyzed: 03/31/2020 17:04

Spike Duplicate ID: LCSD for HBN 1201198 [STS6635]
Spike Duplicate Lab ID: 1554746
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198008, 1201198009, 1201198010

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	23.9	96	25	23.5	94	(75-125)	1.70	(< 5)

Batch Information

Analytical Batch: **STS6635**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1805362 [WXX/13237]
Blank Lab ID: 1554592

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/27/2020 8:15:11AM

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 3/27/2020 7:05:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Method Blank

Blank ID: MB for HBN 1805362 [WXX/13237]
Blank Lab ID: 1554602

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/27/2020 6:22:15PM

Prep Batch: WXX13237
Prep Method: METHOD
Prep Date/Time: 3/27/2020 7:05:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [WXX13237]
Blank Spike Lab ID: 1554593
Date Analyzed: 03/27/2020 08:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.09	102	(90-110)
Nitrite-N	5	5.03	101	(90-110)
Total Nitrate/Nitrite-N	10	10.1	101	(90-110)

Batch Information

Analytical Batch: **WIC6029**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13237**
Prep Method: **METHOD**
Prep Date/Time: **03/27/2020 07:05**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [WXX13237]
Blank Spike Lab ID: 1554603
Date Analyzed: 03/27/2020 19:19

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.15	103	(90-110)
Nitrite-N	5	5.06	101	(90-110)
Total Nitrate/Nitrite-N	10	10.2	102	(90-110)

Batch Information

Analytical Batch: **WIC6029**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13237**
Prep Method: **METHOD**
Prep Date/Time: **03/27/2020 07:05**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1554596
MS Sample ID: 1554599 MS
MSD Sample ID:

Analysis Date: 03/27/2020 12:59
Analysis Date: 03/27/2020 13:18
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.0930J	5.00	5.02	99				90-110		
Nitrite-N	0.100U	5.00	4.8	96				90-110		

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/27/2020 1:18:05PM

Prep Batch: WXX13237
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 3/27/2020 7:05:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 04/10/2020 3:25:39PM

Matrix Spike Summary

Original Sample ID: 1554597
MS Sample ID: 1554600 MS
MSD Sample ID:

Analysis Date: 03/27/2020 16:09
Analysis Date: 03/27/2020 16:28
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.93	99				90-110		
Nitrite-N	0.100U	5.00	4.82	96				90-110		

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/27/2020 4:28:20PM

Prep Batch: WXX13237
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 3/27/2020 7:05:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 04/10/2020 3:25:39PM

Matrix Spike Summary

Original Sample ID: 1554598
MS Sample ID: 1554601 MS
MSD Sample ID:

Analysis Date: 03/27/2020 23:26
Analysis Date: 03/27/2020 23:45
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.94	99				90-110		
Nitrite-N	0.100U	5.00	4.84	97				90-110		

Batch Information

Analytical Batch: WIC6029
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 3/27/2020 11:45:24PM

Prep Batch: WXX13237
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 3/27/2020 7:05:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 04/10/2020 3:25:39PM

Method Blank

Blank ID: MB for HBN 1805385 [WXX/13239]
Blank Lab ID: 1554696

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0500U	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/31/2020 9:50:26AM

Prep Batch: WXX13239
Prep Method: METHOD
Prep Date/Time: 3/31/2020 8:57:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 04/10/2020 3:25:40PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [WXX13239]
Blank Spike Lab ID: 1554697
Date Analyzed: 03/31/2020 09:52

Spike Duplicate ID: LCSD for HBN 1201198 [WXX13239]
Spike Duplicate Lab ID: 1554698
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	0.950	95	1	1.00	100	(75-125)	5.20	(< 25)

Batch Information

Analytical Batch: **WDA4761**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13239**
Prep Method: **METHOD**
Prep Date/Time: **03/31/2020 08:57**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1201198001
MS Sample ID: 1554699 MS
MSD Sample ID: 1554700 MSD

Analysis Date: 03/31/2020 9:55
Analysis Date: 03/31/2020 9:57
Analysis Date: 03/31/2020 9:58
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.0500U	1.00	1.4	140 *	1.00	1.23	123	75-125	12.70	(< 25)

Batch Information

Analytical Batch: WDA4761
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 3/31/2020 9:57:11AM

Prep Batch: WXX13239
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 3/31/2020 8:57:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 04/10/2020 3:25:44PM

Method Blank

Blank ID: MB for HBN 1805440 [WXX/13242]
Blank Lab ID: 1554938

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM23 4500-N D**

Parameter	Results	LOQ/CL	DL	Units
Total Kjeldahl Nitrogen	0.500U	1.00	0.310	mg/L

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 4/1/2020 5:03:14PM

Prep Batch: WXX13242
Prep Method: METHOD
Prep Date/Time: 4/1/2020 10:21:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [WXX13242]
Blank Spike Lab ID: 1554939
Date Analyzed: 04/01/2020 17:04

Spike Duplicate ID: LCSD for HBN 1201198 [WXX13242]
Spike Duplicate Lab ID: 1554940
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM23 4500-N D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	4	3.73	93	4	3.62	91	(75-125)	3.00	(< 25)

Batch Information

Analytical Batch: **WDA4764**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13242**
Prep Method: **METHOD**
Prep Date/Time: **04/01/2020 10:21**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1200005004
MS Sample ID: 1554941 MS
MSD Sample ID: 1554942 MSD

Analysis Date: 04/01/2020 17:23
Analysis Date: 04/01/2020 17:25
Analysis Date: 04/01/2020 17:26
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198001, 1201198002, 1201198003, 1201198004, 1201198005, 1201198006, 1201198007, 1201198008, 1201198009, 1201198010

Results by **SM23 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	3.67	92	4.00	3.45	86	75-125	6.10	(< 25)

Batch Information

Analytical Batch: WDA4764
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 4/1/2020 5:25:06PM

Prep Batch: WXX13242
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 4/1/2020 10:21:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 04/10/2020 3:25:48PM

Method Blank

Blank ID: MB for HBN 1805506 [WXX/13243]
Blank Lab ID: 1555209

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1201198008, 1201198009, 1201198010

Results by **SM21 4500P-B,E**

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0200U	0.0400	0.0120	mg/L

Batch Information

Analytical Batch: WDA4765
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 4/6/2020 8:39:00AM

Prep Batch: WXX13243
Prep Method: SM21 4500P-B,E
Prep Date/Time: 4/6/2020 7:24:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1201198 [WXX13243]
Blank Spike Lab ID: 1555210
Date Analyzed: 04/06/2020 08:39

Spike Duplicate ID: LCSD for HBN 1201198 [WXX13243]
Spike Duplicate Lab ID: 1555211
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198008, 1201198009, 1201198010

Results by **SM21 4500P-B,E**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.186	93	0.2	0.188	94	(75-125)	1.30	(< 25)

Batch Information

Analytical Batch: **WDA4765**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13243**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **04/06/2020 07:24**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1201198009
MS Sample ID: 1555212 MS
MSD Sample ID: 1555213 MSD

Analysis Date: 04/06/2020 10:27
Analysis Date: 04/06/2020 10:27
Analysis Date: 04/06/2020 10:28
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1201198008, 1201198009, 1201198010

Results by **SM21 4500P-B,E**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.344	1.00	1.39	105	1.00	1.30	96	75-125	6.70	(< 25)

Batch Information

Analytical Batch: WDA4765
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 4/6/2020 10:27:54AM

Prep Batch: WXX13243
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 4/6/2020 9:14:00AM
Prep Initial Wt./Vol.: 5.00mL
Prep Extract Vol: 25.00mL

Print Date: 04/10/2020 3:25:53PM

SGS **1201198**

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide
Alaska Maryland
New Jersey New York
North Carolina Indiana
West Virginia Kentucky
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348183 NSW 3/26/2020

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Jake Allwardt PHONE NO: 313-5202

PROJECT NAME: Wasilla WWTP PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL: jake.allwardt@stantec.com

INVOICE TO: QUOTE #: P.O. #: 2047004115

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative									REMARKS/ LOC ID
1AD	MW20	3/26/20	1005	Water	4	G			1		1	1		1		
2AD	MW14A		1045		4				1		1	1		1		
3AD	MW10		1140		4				1		1	1		1		
4AD	MW15		1155		4				1		1	1		1		
5AD	B4		1217		4				1		1	1		1		
6AD	MW6		1215		4				1		1	1		1		
7AD	B11		1305		4				1		1	1		1		
8AG	SW17		1330		7		1	1	1	1	1		1	1		
9AG	SW18		1400		7		1	1	1	1	1		1	1		
10AG	DUP1		1307		7		1	1	1	1	1		1	1		

Section 5

	Date	Time	
Relinquished By: (1)	3/26/20	1611	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	3/26/20	1611	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.3 D44
or Ambient [ ]
(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)
INTACT BROKEN ~~ABSENT~~ HD
(See attached Sample Receipt Form)

[ ] 200 W. Potter Drive Anchorage, AK 99518 Tel: (907) 562-2343 Fax: (907) 561-5301
[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

e-Sample Receipt Form

SGS Workorder #: **1201198**

1201198

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		Yes — Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	Absent
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?	N/A	
	N/A	**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 3.3 °C Therm. ID: D44
		Cooler ID: @ °C Therm. ID:
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
	Yes	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1201198001-A	No Preservative Required	OK			
1201198001-B	Na2S2O3 for Chlorine Redu	OK			
1201198001-C	H2SO4 to pH < 2	OK			
1201198001-D	HNO3 to pH < 2	OK			
1201198002-A	No Preservative Required	OK			
1201198002-B	Na2S2O3 for Chlorine Redu	OK			
1201198002-C	H2SO4 to pH < 2	OK			
1201198002-D	HNO3 to pH < 2	OK			
1201198003-A	No Preservative Required	OK			
1201198003-B	Na2S2O3 for Chlorine Redu	OK			
1201198003-C	H2SO4 to pH < 2	OK			
1201198003-D	HNO3 to pH < 2	OK			
1201198004-A	No Preservative Required	OK			
1201198004-B	Na2S2O3 for Chlorine Redu	OK			
1201198004-C	H2SO4 to pH < 2	OK			
1201198004-D	HNO3 to pH < 2	OK			
1201198005-A	No Preservative Required	OK			
1201198005-B	Na2S2O3 for Chlorine Redu	OK			
1201198005-C	H2SO4 to pH < 2	OK			
1201198005-D	HNO3 to pH < 2	OK			
1201198006-A	No Preservative Required	OK			
1201198006-B	Na2S2O3 for Chlorine Redu	OK			
1201198006-C	H2SO4 to pH < 2	OK			
1201198006-D	HNO3 to pH < 2	OK			
1201198007-A	No Preservative Required	OK			
1201198007-B	Na2S2O3 for Chlorine Redu	OK			
1201198007-C	H2SO4 to pH < 2	OK			
1201198007-D	HNO3 to pH < 2	OK			
1201198008-A	No Preservative Required	OK			
1201198008-B	No Preservative Required	OK			
1201198008-C	No Preservative Required	OK			
1201198008-D	Na2S2O3 for Chlorine Redu	OK			
1201198008-E	Na2S2O3 for Chlorine Redu	OK			
1201198008-F	H2SO4 to pH < 2	OK			
1201198008-G	HNO3 to pH < 2	OK			
1201198009-A	No Preservative Required	OK			
1201198009-B	No Preservative Required	OK			
1201198009-C	No Preservative Required	OK			
1201198009-D	Na2S2O3 for Chlorine Redu	OK			
1201198009-E	Na2S2O3 for Chlorine Redu	OK			
1201198009-F	H2SO4 to pH < 2	OK			
1201198009-G	HNO3 to pH < 2	OK			
1201198010-A	No Preservative Required	OK			
1201198010-B	No Preservative Required	OK			
1201198010-C	No Preservative Required	OK			
1201198010-D	Na2S2O3 for Chlorine Redu	OK			
1201198010-E	Na2S2O3 for Chlorine Redu	OK			
1201198010-F	H2SO4 to pH < 2	OK			
1201198010-G	HNO3 to pH < 2	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

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