Laboratory Report of Analysis

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

Report Number: **1202012**

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: **1202012**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1201876002MS (1560858) MS

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

1201876002MSD (1560859) MSD

4500NH3-G - Ammonia - MSD 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 (Provisionally Certified as of 6/02/2020 for Mercury by EPA200.8 and Turbidity by SM2130B) & 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
SW1	1202012001	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW2	1202012002	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW3	1202012003	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW4	1202012004	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW5	1202012005	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW6	1202012006	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
SW7	1202012007	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
Effluent	1202012008	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
Berm East	1202012009	05/19/2020	05/19/2020	Water (Surface, Eff., Ground)
Berm West	1202012010	05/19/2020	05/19/2020	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)

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Detectable Results Summary

Client Sample ID: **SW1**
Lab Sample ID: 1202012001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	13.7	mg/L
Total Coliform	276	MPN/100mL
Ammonia-N	2.15	mg/L
Total Kjeldahl Nitrogen	3.19	mg/L
Total Nitrate/Nitrite-N	0.0670J	mg/L
Total Phosphorus	0.379	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1202012002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	13.7	mg/L
Fecal Coliform	16	col/100mL
Total Coliform	80	MPN/100mL
Ammonia-N	12.8	mg/L
Total Kjeldahl Nitrogen	16.7	mg/L
Total Nitrate/Nitrite-N	0.0750J	mg/L
Total Phosphorus	0.631	mg/L

Client Sample ID: **SW3**
Lab Sample ID: 1202012003
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	26.3	mg/L
Fecal Coliform	6.7	col/100mL
Total Coliform	1600	MPN/100mL
Ammonia-N	24.5	mg/L
Nitrate-N	0.115J	mg/L
Nitrite-N	0.0590J	mg/L
Total Kjeldahl Nitrogen	33.0	mg/L
Total Nitrate/Nitrite-N	0.174J	mg/L
Total Phosphorus	5.21	mg/L

Client Sample ID: **SW4**
Lab Sample ID: 1202012004
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	866	MPN/100mL
Ammonia-N	0.111	mg/L
Total Kjeldahl Nitrogen	0.408J	mg/L
Total Nitrate/Nitrite-N	0.0570J	mg/L

Client Sample ID: **SW5**
Lab Sample ID: 1202012005
Microbiology Laboratory
Waters Department

Parameter	Result	Units
E. Coli	260	MPN/100mL
Fecal Coliform	210	col/100mL
Total Coliform	17320	MPN/100mL
Ammonia-N	0.0777J	mg/L
Total Kjeldahl Nitrogen	0.481J	mg/L
Total Phosphorus	0.0175J	mg/L

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Detectable Results Summary

Client Sample ID: **SW6**
Lab Sample ID: 1202012006

Parameter	Result	Units
Microbiology Laboratory		
E. Coli	2	MPN/100mL
Fecal Coliform	9.1	col/100mL
Total Coliform	276	MPN/100mL
Waters Department		
Ammonia-N	10.4	mg/L
Total Kjeldahl Nitrogen	10.1	mg/L
Total Phosphorus	1.21	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1202012007

Parameter	Result	Units
Microbiology Laboratory		
Total Coliform	461	MPN/100mL
Waters Department		
Ammonia-N	1.21	mg/L
Total Kjeldahl Nitrogen	1.66	mg/L
Total Nitrate/Nitrite-N	0.0550J	mg/L

Client Sample ID: **Effluent**
Lab Sample ID: 1202012008

Parameter	Result	Units
Microbiology Laboratory		
Biochemical Oxygen Demand	53.0	mg/L
E. Coli	80	MPN/100mL
Fecal Coliform	120	col/100mL
Total Coliform	2880	MPN/100mL
Waters Department		
Ammonia-N	33.9	mg/L
Nitrate-N	0.366	mg/L
Nitrite-N	0.518	mg/L
Total Kjeldahl Nitrogen	36.8	mg/L
Total Nitrate/Nitrite-N	0.884	mg/L
Total Phosphorus	5.90	mg/L

Client Sample ID: **Berm East**
Lab Sample ID: 1202012009

Parameter	Result	Units
Waters Department		
Ammonia-N	16.0	mg/L
Nitrate-N	0.0510J	mg/L
Total Nitrate/Nitrite-N	0.0510J	mg/L

Client Sample ID: **Berm West**
Lab Sample ID: 1202012010

Parameter	Result	Units
Waters Department		
Ammonia-N	3.50	mg/L
Total Nitrate/Nitrite-N	0.0600J	mg/L

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012001
Lab Project ID: 1202012

Collection Date: 05/19/20 11:00
Received Date: 05/19/20 17:01
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	13.7		2.00	2.00	mg/L	1		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012001-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		05/19/20 18:37

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:37
Container ID: 1202012001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/20/20 15:08
Total Coliform	276		1	1	MPN/100m	1		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012001-D

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012001
Lab Project ID: 1202012

Collection Date: 05/19/20 11:00
Received Date: 05/19/20 17:01
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		05/20/20 11:27
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 11:27
Total Nitrate/Nitrite-N	0.0670	J	0.200	0.0500	mg/L	1		05/20/20 11:27

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 11:27
Container ID: 1202012001-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	2.15		0.100	0.0310	mg/L	1		05/29/20 11:27

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 11:27
Container ID: 1202012001-E

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.379		0.0400	0.0120	mg/L	1		05/22/20 12:29

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:29
Container ID: 1202012001-E

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	3.19		1.00	0.310	mg/L	1		06/01/20 17:43

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012001
Lab Project ID: 1202012

Collection Date: 05/19/20 11:00
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:43
Container ID: 1202012001-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012002
Lab Project ID: 1202012

Collection Date: 05/19/20 11:35
Received Date: 05/19/20 17:01
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	13.7		2.00	2.00	mg/L	1		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	16		0.909	0.909	col/100mL	1		05/19/20 19:04

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 19:04
Container ID: 1202012002-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20	U	20	20	MPN/100m	20		05/20/20 15:08
Total Coliform	80		20	20	MPN/100m	20		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012002-D

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012002
Lab Project ID: 1202012

Collection Date: 05/19/20 11:35
Received Date: 05/19/20 17:01
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		05/20/20 11:46
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 11:46
Total Nitrate/Nitrite-N	0.0750	J	0.200	0.0500	mg/L	1		05/20/20 11:46

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 11:46
Container ID: 1202012002-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	12.8		0.500	0.155	mg/L	1		05/29/20 13:34

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 13:34
Container ID: 1202012002-E

Prep Batch: WXX13295
Prep Method: METHOD
Prep Date/Time: 05/29/20 12:00
Prep Initial Wt./Vol.: 1.2 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.631		0.200	0.0600	mg/L	1		05/22/20 16:37

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 16:37
Container ID: 1202012002-E

Prep Batch: WXX13289
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/22/20 14:49
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	16.7		5.00	1.55	mg/L	5		06/01/20 17:45

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012002
Lab Project ID: 1202012

Collection Date: 05/19/20 11:35
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:45
Container ID: 1202012002-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012003
Lab Project ID: 1202012

Collection Date: 05/19/20 12:06
Received Date: 05/19/20 17:01
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	26.3		2.00	2.00	mg/L	1		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	6.7		1.67	1.67	col/100mL	1		05/19/20 18:37

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:37
Container ID: 1202012003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20	U	20	20	MPN/100m	20		05/20/20 15:08
Total Coliform	1600		20	20	MPN/100m	20		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012003-D

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012003
Lab Project ID: 1202012

Collection Date: 05/19/20 12:06
Received Date: 05/19/20 17:01
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	0.115	J	0.200	0.0500	mg/L	1		05/20/20 12:05
Nitrite-N	0.0590	J	0.200	0.0500	mg/L	1		05/20/20 12:05
Total Nitrate/Nitrite-N	0.174	J	0.200	0.0500	mg/L	1		05/20/20 12:05

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 12:05
Container ID: 1202012003-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	24.5		0.500	0.155	mg/L	1		05/29/20 13:35

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 13:35
Container ID: 1202012003-E

Prep Batch: WXX13295
Prep Method: METHOD
Prep Date/Time: 05/29/20 12:00
Prep Initial Wt./Vol.: 1.2 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	5.21		0.800	0.240	mg/L	1		05/22/20 16:38

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 16:38
Container ID: 1202012003-E

Prep Batch: WXX13289
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/22/20 14:49
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	33.0		5.00	1.55	mg/L	5		06/01/20 17:46

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012003
Lab Project ID: 1202012

Collection Date: 05/19/20 12:06
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:46
Container ID: 1202012003-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012004
Lab Project ID: 1202012

Collection Date: 05/19/20 14:57
Received Date: 05/19/20 17:01
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		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/19/20 18:37

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:37
Container ID: 1202012004-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/20/20 15:08
Total Coliform	866		1	1	MPN/100m	1		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012004-D

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012004
Lab Project ID: 1202012

Collection Date: 05/19/20 14:57
Received Date: 05/19/20 17:01
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		05/20/20 12:24
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 12:24
Total Nitrate/Nitrite-N	0.0570	J	0.200	0.0500	mg/L	1		05/20/20 12:24

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 12:24
Container ID: 1202012004-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	0.111		0.100	0.0310	mg/L	1		05/29/20 11:32

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 11:32
Container ID: 1202012004-E

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0200	U	0.0400	0.0120	mg/L	1		05/22/20 12:32

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:32
Container ID: 1202012004-E

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.408	J	1.00	0.310	mg/L	1		06/01/20 17:47

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012004
Lab Project ID: 1202012

Collection Date: 05/19/20 14:57
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:47
Container ID: 1202012004-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012005
Lab Project ID: 1202012

Collection Date: 05/19/20 15:10
Received Date: 05/19/20 17:01
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		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	210		10.0	10.0	col/100mL	1		05/19/20 18:55

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:55
Container ID: 1202012005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	260		20	20	MPN/100n	20		05/20/20 15:08
Total Coliform	17320		20	20	MPN/100n	20		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012005-D

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012005
Lab Project ID: 1202012

Collection Date: 05/19/20 15:10
Received Date: 05/19/20 17:01
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		05/20/20 13:21
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 13:21
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 13:21

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 13:21
Container ID: 1202012005-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	0.0777	J	0.100	0.0310	mg/L	1		05/29/20 11:34

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 11:34
Container ID: 1202012005-E

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0175	J	0.0400	0.0120	mg/L	1		05/22/20 12:33

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:33
Container ID: 1202012005-E

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.481	J	1.00	0.310	mg/L	1		06/01/20 17:51

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012005
Lab Project ID: 1202012

Collection Date: 05/19/20 15:10
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:51
Container ID: 1202012005-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012006
Lab Project ID: 1202012

Collection Date: 05/19/20 14:36
Received Date: 05/19/20 17:01
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		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.1		9.09	9.09	col/100mL	1		05/19/20 18:55

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:55
Container ID: 1202012006-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		05/20/20 15:08
Total Coliform	276		1	1	MPN/100m	1		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012006-D

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012006
Lab Project ID: 1202012

Collection Date: 05/19/20 14:36
Received Date: 05/19/20 17:01
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		05/20/20 13:40
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 13:40
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 13:40

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 13:40
Container ID: 1202012006-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	10.4		0.500	0.155	mg/L	1		05/29/20 13:40

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 13:40
Container ID: 1202012006-E

Prep Batch: WXX13295
Prep Method: METHOD
Prep Date/Time: 05/29/20 12:00
Prep Initial Wt./Vol.: 1.2 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	1.21		0.400	0.120	mg/L	1		05/22/20 16:39

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 16:39
Container ID: 1202012006-E

Prep Batch: WXX13289
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/22/20 14:49
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	10.1		5.00	1.55	mg/L	5		06/01/20 17:55

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012006
Lab Project ID: 1202012

Collection Date: 05/19/20 14:36
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:55
Container ID: 1202012006-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012007
Lab Project ID: 1202012

Collection Date: 05/19/20 14:15
Received Date: 05/19/20 17:01
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		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012007-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		05/19/20 18:55

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:55
Container ID: 1202012007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/20/20 15:08
Total Coliform	461		1	1	MPN/100m	1		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012007-D

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012007
Lab Project ID: 1202012

Collection Date: 05/19/20 14:15
Received Date: 05/19/20 17:01
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		05/20/20 13:59
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 13:59
Total Nitrate/Nitrite-N	0.0550	J	0.200	0.0500	mg/L	1		05/20/20 13:59

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 13:59
Container ID: 1202012007-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	1.21		0.100	0.0310	mg/L	1		05/29/20 11:41

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 11:41
Container ID: 1202012007-E

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0200	U	0.0400	0.0120	mg/L	1		05/22/20 12:39

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:39
Container ID: 1202012007-E

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	1.66		1.00	0.310	mg/L	1		06/01/20 17:56

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012007
Lab Project ID: 1202012

Collection Date: 05/19/20 14:15
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:56
Container ID: 1202012007-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012008
Lab Project ID: 1202012

Collection Date: 05/19/20 13:00
Received Date: 05/19/20 17:01
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	53.0		2.00	2.00	mg/L	1		05/20/20 17:05

Batch Information

Analytical Batch: BOD6606
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/20/20 17:05
Container ID: 1202012008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	120		6.67	6.67	col/100mL	1		05/19/20 18:55

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/19/20 18:55
Container ID: 1202012008-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	80		20	20	MPN/100m	20		05/20/20 15:08
Total Coliform	2880		20	20	MPN/100m	20		05/20/20 15:08

Batch Information

Analytical Batch: BTF18108
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/20/20 15:08
Container ID: 1202012008-D

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012008
Lab Project ID: 1202012

Collection Date: 05/19/20 13:00
Received Date: 05/19/20 17:01
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	0.366		0.200	0.0500	mg/L	1		05/20/20 14:18
Nitrite-N	0.518		0.200	0.0500	mg/L	1		05/20/20 14:18
Total Nitrate/Nitrite-N	0.884		0.200	0.0500	mg/L	1		05/20/20 14:18

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 14:18
Container ID: 1202012008-B

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	33.9		1.00	0.310	mg/L	1		06/01/20 11:47

Batch Information

Analytical Batch: WDA4791
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/01/20 11:47
Container ID: 1202012008-E

Prep Batch: WXX13298
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:00
Prep Initial Wt./Vol.: 0.6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	5.90		0.800	0.240	mg/L	1		05/22/20 16:40

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 16:40
Container ID: 1202012008-E

Prep Batch: WXX13289
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/22/20 14:49
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	36.8		5.00	1.55	mg/L	1		06/01/20 17:58

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012008
Lab Project ID: 1202012

Collection Date: 05/19/20 13:00
Received Date: 05/19/20 17:01
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:58
Container ID: 1202012008-E

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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

Results of **Berm East**

Client Sample ID: **Berm East**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012009
Lab Project ID: 1202012

Collection Date: 05/19/20 12:40
Received Date: 05/19/20 17:01
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	0.0510	J	0.200	0.0500	mg/L	1		05/20/20 14:37
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 14:37
Total Nitrate/Nitrite-N	0.0510	J	0.200	0.0500	mg/L	1		05/20/20 14:37

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 14:37
Container ID: 1202012009-A

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	16.0		0.500	0.155	mg/L	1		05/29/20 13:44

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 13:44
Container ID: 1202012009-B

Prep Batch: WXX13295
Prep Method: METHOD
Prep Date/Time: 05/29/20 12:00
Prep Initial Wt./Vol.: 1.2 mL
Prep Extract Vol: 6 mL

Results of **Berm West**

Client Sample ID: **Berm West**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202012010
Lab Project ID: 1202012

Collection Date: 05/19/20 12:37
Received Date: 05/19/20 17:01
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		05/20/20 14:56
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/20/20 14:56
Total Nitrate/Nitrite-N	0.0600	J	0.200	0.0500	mg/L	1		05/20/20 14:56

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/20/20 14:56
Container ID: 1202012010-A

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 05/20/20 08:15
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	3.50		0.100	0.0310	mg/L	1		05/29/20 11:46

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 11:46
Container ID: 1202012010-B

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 06/02/2020 5:30:03PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1806690 [BOD/6606]
Blank Lab ID: 1559834

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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: BOD6606
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 5/20/2020 5:05:04PM

Print Date: 06/02/2020 5:30:07PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [BOD6606]
Blank Spike Lab ID: 1559835
Date Analyzed: 05/20/2020 17:05

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	192	97	(84.6-115.4

Batch Information

Analytical Batch: **BOD6606**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 06/02/2020 5:30:09PM

Method Blank

Blank ID: MB for HBN 1806638 [BTF/18104]
Blank Lab ID: 1559625

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18104
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 5/19/2020 6:37:03PM

Method Blank

Blank ID: MB for HBN 1806688 [BTF/18108]
Blank Lab ID: 1559830

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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: BTF18108
Analytical Method: SM21 9223B
Instrument:
Analyst: VAB
Analytical Date/Time: 5/20/2020 3:08:00PM

Method Blank

Blank ID: MB for HBN 1806658 [WXX/13287]
Blank Lab ID: 1559701

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	0.0500J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 9:51:54AM

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Method Blank

Blank ID: MB for HBN 1806658 [WXX/13287]
Blank Lab ID: 1559704

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	0.0530J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 3:34:17PM

Prep Batch: WXX13287
Prep Method: METHOD
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13287]
Blank Spike Lab ID: 1559702
Date Analyzed: 05/20/2020 10:10

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.34	107	(90-110)
Nitrite-N	5	5.24	105	(90-110)
Total Nitrate/Nitrite-N	10	10.6	106	(90-110)

Batch Information

Analytical Batch: **WIC6045**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13287**
Prep Method: **METHOD**
Prep Date/Time: **05/20/2020 08:15**
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 1202012 [WXX13287]
Blank Spike Lab ID: 1559705
Date Analyzed: 05/20/2020 15:53

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.35	107	(90-110)
Nitrite-N	5	5.30	106	(90-110)
Total Nitrate/Nitrite-N	10	10.7	107	(90-110)

Batch Information

Analytical Batch: **WIC6045**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13287**
Prep Method: **METHOD**
Prep Date/Time: **05/20/2020 08:15**
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: 1559706
MS Sample ID: 1559710 MS
MSD Sample ID:

Analysis Date: 05/20/2020 10:48
Analysis Date: 05/20/2020 11:08
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	5.39	108				90-110		
Nitrite-N	0.100U	5.00	5.23	105				90-110		

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 11:08:00AM

Prep Batch: WXX13287
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:30:22PM

Matrix Spike Summary

Original Sample ID: 1559707
MS Sample ID: 1559711 MS
MSD Sample ID:

Analysis Date: 05/20/2020 14:56
Analysis Date: 05/20/2020 15:15
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	5.47	109				90-110		
Nitrite-N	0.100U	5.00	5.44	109				90-110		

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 3:15:17PM

Prep Batch: WXX13287
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:30:22PM

Matrix Spike Summary

Original Sample ID: 1559708
MS Sample ID: 1559712 MS
MSD Sample ID:

Analysis Date: 05/20/2020 16:12
Analysis Date: 05/20/2020 19:22
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	0.434	5.00	5.75	106				90-110		
Nitrite-N	0.100U	5.00	5.2	104				90-110		

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 7:22:34PM

Prep Batch: WXX13287
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:30:22PM

Matrix Spike Summary

Original Sample ID: 1559709
MS Sample ID: 1559713 MS
MSD Sample ID:

Analysis Date: 05/20/2020 20:00
Analysis Date: 05/20/2020 20:19
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008, 1202012009, 1202012010

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	5.44	109				90-110		
Nitrite-N	0.100U	5.00	5.29	106				90-110		

Batch Information

Analytical Batch: WIC6045
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/20/2020 8:19:43PM

Prep Batch: WXX13287
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/20/2020 8:15:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:30:22PM

Method Blank

Blank ID: MB for HBN 1806798 [WXX/13288]
Blank Lab ID: 1560064

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012004, 1202012005, 1202012007

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: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 12:24:49PM

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1806798 [WXX/13288]
Blank Lab ID: 1560067

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012004, 1202012005, 1202012007

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: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 12:42:29PM

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13288]
Blank Spike Lab ID: 1560065
Date Analyzed: 05/22/2020 12:25

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13288]
Spike Duplicate Lab ID: 1560066
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012004, 1202012005, 1202012007

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	0.189	95	0.2	0.190	95	(75-125)	0.37	(< 25)

Batch Information

Analytical Batch: **WDA4788**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13288**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/21/2020 16:30**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13288]
Blank Spike Lab ID: 1560068
Date Analyzed: 05/22/2020 12:43

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13288]
Spike Duplicate Lab ID: 1560069
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012004, 1202012005, 1202012007

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	0.185	93	0.2	0.184	92	(75-125)	0.60	(< 25)

Batch Information

Analytical Batch: **WDA4788**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13288**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/21/2020 16:30**
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: 1202037004
MS Sample ID: 1560071 MS
MSD Sample ID: 1560072 MSD

Analysis Date: 05/22/2020 12:50
Analysis Date: 05/22/2020 12:51
Analysis Date: 05/22/2020 12:52
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012004, 1202012005, 1202012007

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	0.0361J	0.200	.267	115	0.200	0.235	100	75-125	12.60	(< 25)

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 12:51:14PM

Prep Batch: WXX13288
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:30:26PM

Method Blank

Blank ID: MB for HBN 1806799 [WXX/13289]
Blank Lab ID: 1560075

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012002, 1202012003, 1202012006, 1202012008

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: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 4:32:31PM

Prep Batch: WXX13289
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/22/2020 2:49:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13289]
Blank Spike Lab ID: 1560076
Date Analyzed: 05/22/2020 16:33

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13289]
Spike Duplicate Lab ID: 1560077
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012002, 1202012003, 1202012006, 1202012008

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	0.176	88	0.2	0.180	90	(75-125)	2.20	(< 25)

Batch Information

Analytical Batch: **WDA4788**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13289**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/22/2020 14:49**
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: 1201903001
MS Sample ID: 1560078 MS
MSD Sample ID: 1560079 MSD

Analysis Date: 05/22/2020 16:34
Analysis Date: 05/22/2020 16:35
Analysis Date: 05/22/2020 16:36
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012002, 1202012003, 1202012006, 1202012008

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	0.531	1.00	1.5	97	1.00	1.52	99	75-125	1.70	(< 25)

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 4:35:44PM

Prep Batch: WXX13289
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/22/2020 2:49:00PM
Prep Initial Wt./Vol.: 5.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:30:31PM

Method Blank

Blank ID: MB for HBN 1806985 [WXX/13293]
Blank Lab ID: 1560855

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012004, 1202012005, 1202012007, 1202012010

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0562J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 10:59:13AM

Prep Batch: WXX13293
Prep Method: METHOD
Prep Date/Time: 5/29/2020 9:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13293]
Blank Spike Lab ID: 1560856
Date Analyzed: 05/29/2020 11:00

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13293]
Spike Duplicate Lab ID: 1560857
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012004, 1202012005, 1202012007, 1202012010

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	1.01	101	1	1.01	101	(75-125)	0.14	(< 25)

Batch Information

Analytical Batch: **WDA4789**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13293**
Prep Method: **METHOD**
Prep Date/Time: **05/29/2020 09:00**
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: 1201876002
MS Sample ID: 1560858 MS
MSD Sample ID: 1560859 MSD

Analysis Date: 05/29/2020 11:04
Analysis Date: 05/29/2020 11:05
Analysis Date: 05/29/2020 11:07
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012004, 1202012005, 1202012007, 1202012010

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	1.33	1.00	1.93	60	*	1.00	1.97	64	* 75-125	2.10	(< 25)

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 11:05:56AM

Prep Batch: WXX13293
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 5/29/2020 9:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/02/2020 5:30:36PM

Method Blank

Blank ID: MB for HBN 1806987 [WXX/13295]
Blank Lab ID: 1560881

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012002, 1202012003, 1202012006, 1202012009

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0700J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 1:20:48PM

Prep Batch: WXX13295
Prep Method: METHOD
Prep Date/Time: 5/29/2020 12:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13295]
Blank Spike Lab ID: 1560882
Date Analyzed: 05/29/2020 13:22

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13295]
Spike Duplicate Lab ID: 1560883
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012002, 1202012003, 1202012006, 1202012009

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	1.08	108	1	1.07	107	(75-125)	0.84	(< 25)

Batch Information

Analytical Batch: **WDA4789**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13295**
Prep Method: **METHOD**
Prep Date/Time: **05/29/2020 12:00**
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: 1560880
MS Sample ID: 1560884 MS
MSD Sample ID: 1560885 MSD

Analysis Date: 05/29/2020 13:25
Analysis Date: 05/29/2020 13:27
Analysis Date: 05/29/2020 13:29
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012002, 1202012003, 1202012006, 1202012009

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	0.101	1.00	1.25	115	1.00	1.25	115	75-125	0.12	(< 25)

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 1:27:31PM

Prep Batch: WXX13295
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 5/29/2020 12:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/02/2020 5:30:41PM

Method Blank

Blank ID: MB for HBN 1807040 [WXX/13298]
Blank Lab ID: 1561126

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012008

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0409J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4791
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 11:42:41AM

Prep Batch: WXX13298
Prep Method: METHOD
Prep Date/Time: 6/1/2020 10:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13298]
Blank Spike Lab ID: 1561127
Date Analyzed: 06/01/2020 11:44

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13298]
Spike Duplicate Lab ID: 1561128
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012008

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	0.998	100	1	1.02	102	(75-125)	1.90	(< 25)

Batch Information

Analytical Batch: **WDA4791**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13298**
Prep Method: **METHOD**
Prep Date/Time: **06/01/2020 10:00**
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: 1202157007
MS Sample ID: 1561129 MS
MSD Sample ID: 1561130 MSD

QC for Samples: 1202012008

Analysis Date: 06/01/2020 11:49
Analysis Date: 06/01/2020 11:51
Analysis Date: 06/01/2020 11:52
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	.813	81	1.00	0.900	90	75-125	10.20	(< 25)

Batch Information

Analytical Batch: WDA4791
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 11:51:03AM

Prep Batch: WXX13298
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 6/1/2020 10:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/02/2020 5:30:45PM

Method Blank

Blank ID: MB for HBN 1807069 [WXX/13299]
Blank Lab ID: 1561221

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 5:39:55PM

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1807069 [WXX/13299]
Blank Lab ID: 1561226

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 6:17:51PM

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13299]
Blank Spike Lab ID: 1561222
Date Analyzed: 06/01/2020 17:41

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13299]
Spike Duplicate Lab ID: 1561223
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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	3.71	93	4	3.65	91	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4792**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13299**
Prep Method: **METHOD**
Prep Date/Time: **06/01/2020 10:31**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202012 [WXX13299]
Blank Spike Lab ID: 1561227
Date Analyzed: 06/01/2020 18:19

Spike Duplicate ID: LCSD for HBN 1202012 [WXX13299]
Spike Duplicate Lab ID: 1561228
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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	3.35	84	4	3.53	88	(75-125)	5.20	(< 25)

Batch Information

Analytical Batch: **WDA4792**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13299**
Prep Method: **METHOD**
Prep Date/Time: **06/01/2020 10:31**
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: 1202012004
MS Sample ID: 1561224 MS
MSD Sample ID: 1561225 MSD

Analysis Date: 06/01/2020 17:47
Analysis Date: 06/01/2020 17:49
Analysis Date: 06/01/2020 17:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012001, 1202012002, 1202012003, 1202012004, 1202012005, 1202012006, 1202012007, 1202012008

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	0.408J	4.00	4.16	94	4.00	3.89	87	75-125	6.80	(< 25)

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 5:49:02PM

Prep Batch: WXX13299
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:30:50PM

Matrix Spike Summary

Original Sample ID: 1201992001
MS Sample ID: 1561229 MS
MSD Sample ID: 1561230 MSD

Analysis Date: 06/01/2020 18:21
Analysis Date: 06/01/2020 18:23
Analysis Date: 06/01/2020 18:26
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202012005, 1202012006, 1202012007, 1202012008

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	0.500U	4.00	3.28	82	4.00	3.40	85	75-125	3.60	(< 25)

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 6:23:01PM

Prep Batch: WXX13299
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:30:50PM

SGS

1202012

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Locations Nationwide

Alaska	Maryland
New Jersey	New York
North Carolina	Indiana
West Virgina	Kentucky

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: 266-1108

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

REPORTS TO: E-MAIL: John.Marshall@Stantec.com

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	Section 3 # CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative: /	/	HNO_3	H_2SO_4	HNO_3	H_2SO_4					REMARKS/ LOC ID
							DOD	Nitrate/Nitrite	EC	Quant	TKN, Ammonia, TDS	Ammonia					
1AE	SW1	5/14/20	1100	W			X	X	X	X	X						
2AE	SW2		1135				X	X	X	X	X						
3AE	SW3		1206				X	X	X	X	X						
4AE	SW4		1457				X	X	X	X	X						
5AE	SW5		1510				X	X	X	X	X						
6AE	SW6		1436				X	X	X	X	X						
7AE	SW7		1415				X	X	X	X	X						
8AE	Effluent		1300				X	X	X	X	X						
9AB	Berm East		1240					X				X					
10AB	Berm West		1237					X				X					

Section 5

	Date	Time	
Relinquished By: (1) John Marshall	5/19/20	1701	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 5/19/20	Time 1701	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: 0.5° #D30 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 #: **1202012**

1 2 0 2 0 1 2

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 @ 0.8 °C Therm. ID: D30
		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)?	No	A1-8E and 9-10B samples on COC states that they were preserved with HNO3.More in additional comments.
**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):

It is the wrong preservative for analyses on containers and sample container had H2SO4 preservative.Proceeded per sample container preserative.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1202012001-A	No Preservative Required	OK			
1202012001-B	No Preservative Required	OK			
1202012001-C	Na2S2O3 for Chlorine Redu	OK			
1202012001-D	Na2S2O3 for Chlorine Redu	OK			
1202012001-E	H2SO4 to pH < 2	OK			
1202012002-A	No Preservative Required	OK			
1202012002-B	No Preservative Required	OK			
1202012002-C	Na2S2O3 for Chlorine Redu	OK			
1202012002-D	Na2S2O3 for Chlorine Redu	OK			
1202012002-E	H2SO4 to pH < 2	OK			
1202012003-A	No Preservative Required	OK			
1202012003-B	No Preservative Required	OK			
1202012003-C	Na2S2O3 for Chlorine Redu	OK			
1202012003-D	Na2S2O3 for Chlorine Redu	OK			
1202012003-E	H2SO4 to pH < 2	OK			
1202012004-A	No Preservative Required	OK			
1202012004-B	No Preservative Required	OK			
1202012004-C	Na2S2O3 for Chlorine Redu	OK			
1202012004-D	Na2S2O3 for Chlorine Redu	OK			
1202012004-E	H2SO4 to pH < 2	OK			
1202012005-A	No Preservative Required	OK			
1202012005-B	No Preservative Required	OK			
1202012005-C	Na2S2O3 for Chlorine Redu	OK			
1202012005-D	Na2S2O3 for Chlorine Redu	OK			
1202012005-E	H2SO4 to pH < 2	OK			
1202012006-A	No Preservative Required	OK			
1202012006-B	No Preservative Required	OK			
1202012006-C	Na2S2O3 for Chlorine Redu	OK			
1202012006-D	Na2S2O3 for Chlorine Redu	OK			
1202012006-E	H2SO4 to pH < 2	OK			
1202012007-A	No Preservative Required	OK			
1202012007-B	No Preservative Required	OK			
1202012007-C	Na2S2O3 for Chlorine Redu	OK			
1202012007-D	Na2S2O3 for Chlorine Redu	OK			
1202012007-E	H2SO4 to pH < 2	OK			
1202012008-A	No Preservative Required	OK			
1202012008-B	No Preservative Required	OK			
1202012008-C	Na2S2O3 for Chlorine Redu	OK			
1202012008-D	Na2S2O3 for Chlorine Redu	OK			
1202012008-E	H2SO4 to pH < 2	OK			
1202012009-A	No Preservative Required	OK			
1202012009-B	H2SO4 to pH < 2	OK			
1202012010-A	No Preservative Required	OK			
1202012010-B	H2SO4 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.

Laboratory Report of Analysis

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

Report Number: **1202037**

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: **1202037**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

*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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t 907.562.2343 **f** 907.561.5301 www.us.sgs.com

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 (Provisionally Certified as of 6/02/2020 for Mercury by EPA200.8 and Turbidity by SM2130B) & 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
SW8	1202037001	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW9	1202037002	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW10	1202037003	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW11	1202037004	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW12	1202037005	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW13	1202037006	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW15	1202037007	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW16	1202037008	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW17	1202037009	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
DUP1	1202037010	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
SW18	1202037011	05/20/2020	05/20/2020	Water (Surface, Eff., Ground)
Shaw	1202037012	05/20/2020	05/20/2020	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)

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Detectable Results Summary

Client Sample ID: **SW8**
Lab Sample ID: 1202037001
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.74	mg/L
E. Coli	10	MPN/100mL
Total Coliform	276	MPN/100mL
Ammonia-N	0.318	mg/L
Total Kjeldahl Nitrogen	0.862J	mg/L
Total Phosphorus	0.113	mg/L

Client Sample ID: **SW9**
Lab Sample ID: 1202037002
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	410	MPN/100mL
Ammonia-N	3.36	mg/L
Total Kjeldahl Nitrogen	3.15	mg/L
Total Phosphorus	0.0554	mg/L

Client Sample ID: **SW10**
Lab Sample ID: 1202037003
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	1203	MPN/100mL
Ammonia-N	0.831	mg/L
Total Kjeldahl Nitrogen	1.21	mg/L
Total Nitrate/Nitrite-N	0.0690J	mg/L

Client Sample ID: **SW11**
Lab Sample ID: 1202037004
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	34	MPN/100mL
Ammonia-N	0.0640J	mg/L
Total Nitrate/Nitrite-N	0.0640J	mg/L
Total Phosphorus	0.0361J	mg/L

Client Sample ID: **SW12**
Lab Sample ID: 1202037005
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	261	MPN/100mL
Ammonia-N	0.0796J	mg/L
Total Kjeldahl Nitrogen	1.64	mg/L
Total Nitrate/Nitrite-N	0.0620J	mg/L
Total Phosphorus	0.324	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1202037006
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.42	mg/L
Total Coliform	1120	MPN/100mL
Ammonia-N	0.125	mg/L
Total Kjeldahl Nitrogen	0.512J	mg/L
Total Phosphorus	0.0715	mg/L

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Detectable Results Summary

Client Sample ID: **SW15**
Lab Sample ID: 1202037007
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Total Coliform	579	MPN/100mL
Ammonia-N	0.0827J	mg/L
Total Phosphorus	0.0149J	mg/L

Client Sample ID: **SW16**
Lab Sample ID: 1202037008
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.71	mg/L
Total Coliform	1120	MPN/100mL
Ammonia-N	0.0922J	mg/L
Total Kjeldahl Nitrogen	0.357J	mg/L
Total Phosphorus	0.0164J	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1202037009
Microbiology Laboratory
Waters Department

Parameter	Result	Units
E. Coli	1	MPN/100mL
Total Coliform	435	MPN/100mL
Ammonia-N	0.0971J	mg/L
Nitrate-N	1.02	mg/L
Total Kjeldahl Nitrogen	0.477J	mg/L
Total Nitrate/Nitrite-N	1.02	mg/L
Total Phosphorus	0.0556	mg/L

Client Sample ID: **DUP1**
Lab Sample ID: 1202037010
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Fecal Coliform	5.0	col/100mL
Total Coliform	179	MPN/100mL
Ammonia-N	0.115	mg/L
Nitrate-N	1.02	mg/L
Total Kjeldahl Nitrogen	0.364J	mg/L
Total Nitrate/Nitrite-N	1.04	mg/L
Total Phosphorus	0.0904	mg/L

Client Sample ID: **SW18**
Lab Sample ID: 1202037011
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.44	mg/L
E. Coli	3	MPN/100mL
Fecal Coliform	5.0	col/100mL
Total Coliform	126	MPN/100mL
Ammonia-N	0.562	mg/L
Nitrate-N	1.73	mg/L
Total Kjeldahl Nitrogen	0.695J	mg/L
Total Nitrate/Nitrite-N	1.78	mg/L
Total Phosphorus	0.493	mg/L

Detectable Results Summary

Client Sample ID: **Shaw**
Lab Sample ID: 1202037012

Microbiology Laboratory

Waters Department

Parameter	Result	Units
E. Coli	1	MPN/100mL
Fecal Coliform	15	col/100mL
Total Coliform	83	MPN/100mL
Ammonia-N	0.189	mg/L
Nitrate-N	0.0620J	mg/L
Total Kjeldahl Nitrogen	1.08	mg/L
Total Nitrate/Nitrite-N	0.0850J	mg/L
Total Phosphorus	0.257	mg/L

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Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037001
Lab Project ID: 1202037

Collection Date: 05/20/20 09:50
Received Date: 05/20/20 16:49
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	2.74		2.00	2.00	mg/L	1		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 17:34

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 17:34
Container ID: 1202037001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	276		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037001-B

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037001
Lab Project ID: 1202037

Collection Date: 05/20/20 09:50
Received Date: 05/20/20 16:49
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		05/21/20 13:59
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 13:59
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 13:59

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 13:59
Container ID: 1202037001-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.318		0.100	0.0310	mg/L	1		05/29/20 12:01

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:01
Container ID: 1202037001-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.113		0.0400	0.0120	mg/L	1		05/22/20 12:45

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:45
Container ID: 1202037001-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.862	J	1.00	0.310	mg/L	1		06/01/20 17:59

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037001
Lab Project ID: 1202037

Collection Date: 05/20/20 09:50
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 17:59
Container ID: 1202037001-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
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: **Wasilla WWTP**
Lab Sample ID: 1202037002
Lab Project ID: 1202037

Collection Date: 05/20/20 10:11
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		05/20/20 17:34

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 17:34
Container ID: 1202037002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	410		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037002-B

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037002
Lab Project ID: 1202037

Collection Date: 05/20/20 10:11
Received Date: 05/20/20 16:49
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		05/21/20 14:56
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 14:56
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 14:56

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 14:56
Container ID: 1202037002-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	3.36		0.100	0.0310	mg/L	1		05/29/20 12:02

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:02
Container ID: 1202037002-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0554		0.0400	0.0120	mg/L	1		05/22/20 12:48

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:48
Container ID: 1202037002-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	3.15		1.00	0.310	mg/L	1		06/01/20 18:00

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037002
Lab Project ID: 1202037

Collection Date: 05/20/20 10:11
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:00
Container ID: 1202037002-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037003
Lab Project ID: 1202037

Collection Date: 05/20/20 10:32
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 17:34

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 17:34
Container ID: 1202037003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	1203		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037003-B

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037003
Lab Project ID: 1202037

Collection Date: 05/20/20 10:32
Received Date: 05/20/20 16:49
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		05/21/20 19:00
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 19:00
Total Nitrate/Nitrite-N	0.0690	J	0.200	0.0500	mg/L	1		05/21/20 19:00

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 19:00
Container ID: 1202037003-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.831		0.100	0.0310	mg/L	1		05/29/20 12:04

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:04
Container ID: 1202037003-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0200	U	0.0400	0.0120	mg/L	1		05/22/20 12:49

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:49
Container ID: 1202037003-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	1.21		1.00	0.310	mg/L	1		06/01/20 18:02

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037003
Lab Project ID: 1202037

Collection Date: 05/20/20 10:32
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:02
Container ID: 1202037003-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037004
Lab Project ID: 1202037

Collection Date: 05/20/20 11:15
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	34		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037004-B

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037004
Lab Project ID: 1202037

Collection Date: 05/20/20 11:15
Received Date: 05/20/20 16:49
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		05/21/20 19:19
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 19:19
Total Nitrate/Nitrite-N	0.0640	J	0.200	0.0500	mg/L	1		05/21/20 19:19

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 19:19
Container ID: 1202037004-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.0640	J	0.100	0.0310	mg/L	1		05/29/20 12:06

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:06
Container ID: 1202037004-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0361	J	0.0400	0.0120	mg/L	1		05/22/20 12:50

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:50
Container ID: 1202037004-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.500	U	1.00	0.310	mg/L	1		06/01/20 18:03

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037004
Lab Project ID: 1202037

Collection Date: 05/20/20 11:15
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:03
Container ID: 1202037004-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037005
Lab Project ID: 1202037

Collection Date: 05/20/20 11:34
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	261		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037005-B

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037005
Lab Project ID: 1202037

Collection Date: 05/20/20 11:34
Received Date: 05/20/20 16:49
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		05/21/20 19:38
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 19:38
Total Nitrate/Nitrite-N	0.0620	J	0.200	0.0500	mg/L	1		05/21/20 19:38

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 19:38
Container ID: 1202037005-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.0796	J	0.100	0.0310	mg/L	1		05/29/20 12:07

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:07
Container ID: 1202037005-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.324		0.0400	0.0120	mg/L	1		05/22/20 12:53

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:53
Container ID: 1202037005-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	1.64		1.00	0.310	mg/L	1		06/01/20 18:04

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037005
Lab Project ID: 1202037

Collection Date: 05/20/20 11:34
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:04
Container ID: 1202037005-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037006
Lab Project ID: 1202037

Collection Date: 05/20/20 11:50
Received Date: 05/20/20 16:49
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	2.42		2.00	2.00	mg/L	1		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	1120		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037006-B

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037006
Lab Project ID: 1202037

Collection Date: 05/20/20 11:50
Received Date: 05/20/20 16:49
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		05/21/20 19:57
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 19:57
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 19:57

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 19:57
Container ID: 1202037006-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.125		0.100	0.0310	mg/L	1		05/29/20 12:09

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:09
Container ID: 1202037006-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0715		0.0400	0.0120	mg/L	1		05/22/20 12:54

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:54
Container ID: 1202037006-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.512	J	1.00	0.310	mg/L	1		06/01/20 18:06

Print Date: 06/02/2020 5:33:28PM

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Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037006
Lab Project ID: 1202037

Collection Date: 05/20/20 11:50
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:06
Container ID: 1202037006-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037007
Lab Project ID: 1202037

Collection Date: 05/20/20 14:01
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	579		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037007-B

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037007
Lab Project ID: 1202037

Collection Date: 05/20/20 14:01
Received Date: 05/20/20 16:49
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		05/21/20 20:16
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 20:16
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 20:16

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 20:16
Container ID: 1202037007-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.0827	J	0.100	0.0310	mg/L	1		05/29/20 12:11

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:11
Container ID: 1202037007-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0149	J	0.0400	0.0120	mg/L	1		05/22/20 12:55

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:55
Container ID: 1202037007-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.500	U	1.00	0.310	mg/L	1		06/01/20 18:07

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Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037007
Lab Project ID: 1202037

Collection Date: 05/20/20 14:01
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:07
Container ID: 1202037007-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037008
Lab Project ID: 1202037

Collection Date: 05/20/20 14:16
Received Date: 05/20/20 16:49
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	2.71		2.00	2.00	mg/L	1		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	1120		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037008-B

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037008
Lab Project ID: 1202037

Collection Date: 05/20/20 14:16
Received Date: 05/20/20 16:49
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		05/21/20 20:35
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 20:35
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 20:35

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 20:35
Container ID: 1202037008-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.0922	J	0.100	0.0310	mg/L	1		05/29/20 12:12

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:12
Container ID: 1202037008-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0164	J	0.0400	0.0120	mg/L	1		05/22/20 12:55

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:55
Container ID: 1202037008-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.357	J	1.00	0.310	mg/L	1		06/01/20 18:11

Print Date: 06/02/2020 5:33:28PM

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Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037008
Lab Project ID: 1202037

Collection Date: 05/20/20 14:16
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:11
Container ID: 1202037008-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
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: 1202037009
Lab Project ID: 1202037

Collection Date: 05/20/20 14:47
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67 U		1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	435		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037009-B

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037009
Lab Project ID: 1202037

Collection Date: 05/20/20 14:47
Received Date: 05/20/20 16:49
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	1.02		0.200	0.0500	mg/L	1		05/21/20 20:54
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 20:54
Total Nitrate/Nitrite-N	1.02		0.200	0.0500	mg/L	1		05/21/20 20:54

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 20:54
Container ID: 1202037009-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.0971	J	0.100	0.0310	mg/L	1		05/29/20 12:14

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:14
Container ID: 1202037009-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0556		0.0400	0.0120	mg/L	1		05/22/20 12:56

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:56
Container ID: 1202037009-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.477	J	1.00	0.310	mg/L	1		06/01/20 18:12

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037009
Lab Project ID: 1202037

Collection Date: 05/20/20 14:47
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:12
Container ID: 1202037009-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
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: 1202037010
Lab Project ID: 1202037

Collection Date: 05/20/20 14:49
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	179		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037010-B

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Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037010
Lab Project ID: 1202037

Collection Date: 05/20/20 14:49
Received Date: 05/20/20 16:49
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	1.02		0.200	0.0500	mg/L	1		05/21/20 21:13
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/21/20 21:13
Total Nitrate/Nitrite-N	1.04		0.200	0.0500	mg/L	1		05/21/20 21:13

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/21/20 21:13
Container ID: 1202037010-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.115		0.100	0.0310	mg/L	1		05/29/20 12:19

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:19
Container ID: 1202037010-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.0904		0.0400	0.0120	mg/L	1		05/22/20 12:59

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 12:59
Container ID: 1202037010-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.364	J	1.00	0.310	mg/L	1		06/01/20 18:13

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **DUP1**

Client Sample ID: **DUP1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037010
Lab Project ID: 1202037

Collection Date: 05/20/20 14:49
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:13
Container ID: 1202037010-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
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: 1202037011
Lab Project ID: 1202037

Collection Date: 05/20/20 15:02
Received Date: 05/20/20 16:49
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	2.44		2.00	2.00	mg/L	1		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	126		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037011-B

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037011
Lab Project ID: 1202037

Collection Date: 05/20/20 15:02
Received Date: 05/20/20 16:49
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	1.73		0.200	0.0500	mg/L	1		05/22/20 07:53
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/22/20 07:53
Total Nitrate/Nitrite-N	1.78		0.200	0.0500	mg/L	1		05/22/20 07:53

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/22/20 07:53
Container ID: 1202037011-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.562		0.100	0.0310	mg/L	1		05/29/20 12:21

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:21
Container ID: 1202037011-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.493		0.0400	0.0120	mg/L	1		05/22/20 13:00

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 13:00
Container ID: 1202037011-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	0.695	J	1.00	0.310	mg/L	1		06/01/20 18:15

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037011
Lab Project ID: 1202037

Collection Date: 05/20/20 15:02
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:15
Container ID: 1202037011-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037012
Lab Project ID: 1202037

Collection Date: 05/20/20 12:42
Received Date: 05/20/20 16:49
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		05/21/20 13:53

Batch Information

Analytical Batch: BOD6608
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 05/21/20 13:53
Container ID: 1202037012-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	15		1.67	1.67	col/100mL	1		05/20/20 18:26

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 05/20/20 18:26
Container ID: 1202037012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		05/21/20 15:38
Total Coliform	83		1	1	MPN/100m	1		05/21/20 15:38

Batch Information

Analytical Batch: BTF18109
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 05/21/20 15:38
Container ID: 1202037012-B

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037012
Lab Project ID: 1202037

Collection Date: 05/20/20 12:42
Received Date: 05/20/20 16:49
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		05/22/20 07:34
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		05/22/20 07:34
Total Nitrate/Nitrite-N	0.0850	J	0.200	0.0500	mg/L	1		05/22/20 07:34

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 05/22/20 07:34
Container ID: 1202037012-C

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 05/21/20 09:20
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	0.189		0.100	0.0310	mg/L	1		05/29/20 12:22

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 05/29/20 12:22
Container ID: 1202037012-D

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 05/29/20 09:00
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	0.257		0.0400	0.0120	mg/L	1		05/22/20 13:00

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 05/22/20 13:00
Container ID: 1202037012-D

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 05/21/20 16:30
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	1.08		1.00	0.310	mg/L	1		06/01/20 18:16

Print Date: 06/02/2020 5:33:28PM

J flagging is activated

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202037012
Lab Project ID: 1202037

Collection Date: 05/20/20 12:42
Received Date: 05/20/20 16:49
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/01/20 18:16
Container ID: 1202037012-D

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 06/01/20 10:31
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1806865 [BOD/6608]
Blank Lab ID: 1560334

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: BOD6608
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 5/21/2020 10:57:02AM

Print Date: 06/02/2020 5:33:33PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [BOD6608]
Blank Spike Lab ID: 1560335
Date Analyzed: 05/21/2020 10:57

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	212	107	(84.6-115.4

Batch Information

Analytical Batch: **BOD6608**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 06/02/2020 5:33:35PM

Method Blank

Blank ID: MB for HBN 1806639 [BTF/18105]
Blank Lab ID: 1559666

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Instrument:
Analyst: VAB
Analytical Date/Time: 5/20/2020 5:34:28PM

Print Date: 06/02/2020 5:33:37PM

Method Blank

Blank ID: MB for HBN 1806639 [BTF/18105]
Blank Lab ID: 1559667

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18105
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 5/20/2020 6:26:28PM

Print Date: 06/02/2020 5:33:37PM

Method Blank

Blank ID: MB for HBN 1806689 [BTF/18109]
Blank Lab ID: 1559832

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: BTF18109
Analytical Method: SM21 9223B
Instrument:
Analyst: VAB
Analytical Date/Time: 5/21/2020 3:38:00PM

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Method Blank

Blank ID: MB for HBN 1806798 [WXX/13288]
Blank Lab ID: 1560067

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 12:42:29PM

Prep Batch: WXX13288
Prep Method: SM21 4500P-B,E
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [WXX13288]
Blank Spike Lab ID: 1560068
Date Analyzed: 05/22/2020 12:43

Spike Duplicate ID: LCSD for HBN 1202037 [WXX13288]
Spike Duplicate Lab ID: 1560069
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.185	93	0.2	0.184	92	(75-125)	0.60	(< 25)

Batch Information

Analytical Batch: **WDA4788**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13288**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **05/21/2020 16:30**
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: 1202037004
MS Sample ID: 1560071 MS
MSD Sample ID: 1560072 MSD

Analysis Date: 05/22/2020 12:50
Analysis Date: 05/22/2020 12:51
Analysis Date: 05/22/2020 12:52
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.0361J	0.200	.267	115	0.200	0.235	100	75-125	12.60	(< 25)

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 12:51:14PM

Prep Batch: WXX13288
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:33:48PM

Matrix Spike Summary

Original Sample ID: 1560070
MS Sample ID: 1560073 MS
MSD Sample ID: 1560074 MSD

Analysis Date: 05/22/2020 14:21
Analysis Date: 05/22/2020 14:22
Analysis Date: 05/22/2020 14:23
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	1.27	0.200	1.48	104	0.200	1.48	106	75-125	0.34	(< 25)

Batch Information

Analytical Batch: WDA4788
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/22/2020 2:22:44PM

Prep Batch: WXX13288
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 5/21/2020 4:30:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:33:48PM

Method Blank

Blank ID: MB for HBN 1806835 [WXX/13290]
Blank Lab ID: 1560222

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: WIC6046
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/21/2020 1:02:35PM

Prep Batch: WXX13290
Prep Method: METHOD
Prep Date/Time: 5/21/2020 9:20:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [WXX13290]
Blank Spike Lab ID: 1560223
Date Analyzed: 05/21/2020 13:21

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.52	110	(90-110)
Nitrite-N	5	5.40	108	(90-110)
Total Nitrate/Nitrite-N	10	10.9	109	(90-110)

Batch Information

Analytical Batch: **WIC6046**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13290**
Prep Method: **METHOD**
Prep Date/Time: **05/21/2020 09:20**
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: 1560225
MS Sample ID: 1560226 MS
MSD Sample ID:

Analysis Date: 05/22/2020 10:14
Analysis Date: 05/22/2020 10:33
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.401	5.00	5.9	110				90-110		
Nitrite-N	0.100U	5.00	5.39	108				90-110		

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/22/2020 10:33:32AM

Prep Batch: WXX13290
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/21/2020 9:20:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:33:53PM

Matrix Spike Summary

Original Sample ID: 1560227
MS Sample ID: 1560228 MS
MSD Sample ID:

Analysis Date: 05/22/2020 11:49
Analysis Date: 05/22/2020 12:08
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	5.48	110				90-110		
Nitrite-N	0.100U	5.00	5.4	108				90-110		

Batch Information

Analytical Batch: WIC6046
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 5/22/2020 12:08:33PM

Prep Batch: WXX13290
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 5/21/2020 9:20:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/02/2020 5:33:53PM

Method Blank

Blank ID: MB for HBN 1806986 [WXX/13294]
Blank Lab ID: 1560869

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0784J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 11:47:44AM

Prep Batch: WXX13294
Prep Method: METHOD
Prep Date/Time: 5/29/2020 9:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [WXX13294]
Blank Spike Lab ID: 1560870
Date Analyzed: 05/29/2020 11:49

Spike Duplicate ID: LCSD for HBN 1202037 [WXX13294]
Spike Duplicate Lab ID: 1560871
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	1.11	111	(75-125)	2.80	(< 25)

Batch Information

Analytical Batch: **WDA4789**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13294**
Prep Method: **METHOD**
Prep Date/Time: **05/29/2020 09:00**
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: 1202025005
MS Sample ID: 1560872 MS
MSD Sample ID: 1560873 MSD

Analysis Date: 05/29/2020 11:52
Analysis Date: 05/29/2020 11:54
Analysis Date: 05/29/2020 11:59
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.122	1.00	1.13	101	1.00	1.17	105	75-125	3.80	(< 25)

Batch Information

Analytical Batch: WDA4789
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 5/29/2020 11:54:22AM

Prep Batch: WXX13294
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 5/29/2020 9:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/02/2020 5:33:58PM

Method Blank

Blank ID: MB for HBN 1807069 [WXX/13299]
Blank Lab ID: 1561221

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 5:39:55PM

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1807069 [WXX/13299]
Blank Lab ID: 1561226

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 6:17:51PM

Prep Batch: WXX13299
Prep Method: METHOD
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [WXX13299]
Blank Spike Lab ID: 1561222
Date Analyzed: 06/01/2020 17:41

Spike Duplicate ID: LCSD for HBN 1202037 [WXX13299]
Spike Duplicate Lab ID: 1561223
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	3.71	93	4	3.65	91	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4792**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13299**
Prep Method: **METHOD**
Prep Date/Time: **06/01/2020 10:31**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202037 [WXX13299]
Blank Spike Lab ID: 1561227
Date Analyzed: 06/01/2020 18:19

Spike Duplicate ID: LCSD for HBN 1202037 [WXX13299]
Spike Duplicate Lab ID: 1561228
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	3.35	84	4	3.53	88	(75-125)	5.20	(< 25)

Batch Information

Analytical Batch: **WDA4792**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13299**
Prep Method: **METHOD**
Prep Date/Time: **06/01/2020 10:31**
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: 1202012004
MS Sample ID: 1561224 MS
MSD Sample ID: 1561225 MSD

Analysis Date: 06/01/2020 17:47
Analysis Date: 06/01/2020 17:49
Analysis Date: 06/01/2020 17:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.408J	4.00	4.16	94	4.00	3.89	87	75-125	6.80	(< 25)

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 5:49:02PM

Prep Batch: WXX13299
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:34:02PM

Matrix Spike Summary

Original Sample ID: 1201992001
MS Sample ID: 1561229 MS
MSD Sample ID: 1561230 MSD

Analysis Date: 06/01/2020 18:21
Analysis Date: 06/01/2020 18:23
Analysis Date: 06/01/2020 18:26
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202037001, 1202037002, 1202037003, 1202037004, 1202037005, 1202037006, 1202037007, 1202037008, 1202037009, 1202037010, 1202037011, 1202037012

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	0.500U	4.00	3.28	82	4.00	3.40	85	75-125	3.60	(< 25)

Batch Information

Analytical Batch: WDA4792
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/1/2020 6:23:01PM

Prep Batch: WXX13299
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/1/2020 10:31:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/02/2020 5:34:02PM

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CHAIN OF CUSTODY RECORD

1202037

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Instructions: Section [illegible] must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: Stantec

CONTACT: John Marshall — PHONE #: 266-1108

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

REPORTS TO: — E-MAIL: — Profile #:

INVOICE TO: — QUOTE #: — P.O. #:

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	Analysis* BOD	Nitrate/Nitrite	TKN/Ammonia	FC	Quanti	REMARKS/LOC ID
1AE	SW 8	5/20/20	0950	W	5	G	X	X	X	X	X	
2AE	SW 9		1011				X	X	X	X	X	
3AE	SW 10		1632				X	X	X	X	X	
4AE	SW 11		1115				X	X	X	X	X	
5AE	SW 12		1134				X	X	X	X	X	
6AE	SW 13		1150				X	X	X	X	X	
7AE	SW 15		1401				X	X	X	X	X	
8AE	SW 16		1416				X	X	X	X	X	
9AE	SW 17		1447				X	X	X	X	X	
10AE	Dup 1		1449				X	X	X	X	X	

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

Section 5

	Date	Time	
Relinquished By: (1) John Marshall	5/20/20	1649	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 5/20/20	Time 16:49	Received For Laboratory By: RJC

Section 4 — DOD Project? Yes (No) — Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.3 D30 / 6.7 D60 or Ambient [ ]

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

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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CHAIN OF CUSTODY RECORD

1202037

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Instructions: Se[illegible] must be filled out.
Omissions may delay the onset of analysis.

Section 1

CLIENT: Stantec

CONTACT: John Marshall — PHONE #: 266-1108

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

REPORTS TO: — E-MAIL: — Profile #:

INVOICE TO: — QUOTE #: — P.O. #:

Section 3 — Preservative

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp / Grab / MI (Multi-incremental)	Analysis*: BOD	Nitrate/Nitrite	TKN/Ammonia/TDS	FC	Quant	REMARKS/LOC ID
TIME	SW 18	5/20/20	1502	W	5	G	X	X	X	X	X	
TIME	SW 4	5/20/20	1242	W	5	G	X	X	X	X	X	

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

Section 5

	Date	Time	
Relinquished By: (1) John Marshall	5/20/20	1649	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 5/20/20	Time 16:49	Received For Laboratory By: RJC

Section 4

DOD Project? Yes (No)

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 6.3 D30 / 6.7 D60 or Ambient [ ]

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

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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e-Sample Receipt Form

SGS Workorder #: **1202037**

1 2 0 2 0 3 7

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)?	No	Cooler ID: 1 @ 6.3 °C Therm. ID: D30
	No	Cooler ID: 2 @ 6.7 °C Therm. ID: D60
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?	Yes	
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
1202037001-A	Na2S2O3 for Chlorine Redu	OK
1202037001-B	Na2S2O3 for Chlorine Redu	OK
1202037001-C	No Preservative Required	OK
1202037001-D	H2SO4 to pH < 2	OK
1202037001-E	No Preservative Required	OK
1202037002-A	Na2S2O3 for Chlorine Redu	OK
1202037002-B	Na2S2O3 for Chlorine Redu	OK
1202037002-C	No Preservative Required	OK
1202037002-D	H2SO4 to pH < 2	OK
1202037002-E	No Preservative Required	OK
1202037003-A	Na2S2O3 for Chlorine Redu	OK
1202037003-B	Na2S2O3 for Chlorine Redu	OK
1202037003-C	No Preservative Required	OK
1202037003-D	H2SO4 to pH < 2	OK
1202037003-E	No Preservative Required	OK
1202037004-A	Na2S2O3 for Chlorine Redu	OK
1202037004-B	Na2S2O3 for Chlorine Redu	OK
1202037004-C	No Preservative Required	OK
1202037004-D	H2SO4 to pH < 2	OK
1202037004-E	No Preservative Required	OK
1202037005-A	Na2S2O3 for Chlorine Redu	OK
1202037005-B	Na2S2O3 for Chlorine Redu	OK
1202037005-C	No Preservative Required	OK
1202037005-D	H2SO4 to pH < 2	OK
1202037005-E	No Preservative Required	OK
1202037006-A	Na2S2O3 for Chlorine Redu	OK
1202037006-B	Na2S2O3 for Chlorine Redu	OK
1202037006-C	No Preservative Required	OK
1202037006-D	H2SO4 to pH < 2	OK
1202037006-E	No Preservative Required	OK
1202037007-A	Na2S2O3 for Chlorine Redu	OK
1202037007-B	Na2S2O3 for Chlorine Redu	OK
1202037007-C	No Preservative Required	OK
1202037007-D	H2SO4 to pH < 2	OK
1202037007-E	No Preservative Required	OK
1202037008-A	Na2S2O3 for Chlorine Redu	OK
1202037008-B	Na2S2O3 for Chlorine Redu	OK
1202037008-C	No Preservative Required	OK
1202037008-D	H2SO4 to pH < 2	OK
1202037008-E	No Preservative Required	OK
1202037009-A	Na2S2O3 for Chlorine Redu	OK
1202037009-B	Na2S2O3 for Chlorine Redu	OK
1202037009-C	No Preservative Required	OK
1202037009-D	H2SO4 to pH < 2	OK
1202037009-E	No Preservative Required	OK
1202037010-A	Na2S2O3 for Chlorine Redu	OK
1202037010-B	Na2S2O3 for Chlorine Redu	OK
1202037010-C	No Preservative Required	OK
1202037010-D	H2SO4 to pH < 2	OK
1202037010-E	No Preservative Required	OK
1202037011-A	Na2S2O3 for Chlorine Redu	OK
1202037011-B	Na2S2O3 for Chlorine Redu	OK
1202037011-C	No Preservative Required	OK
1202037011-D	H2SO4 to pH < 2	OK
1202037011-E	No Preservative Required	OK
1202037012-A	Na2S2O3 for Chlorine Redu	OK
1202037012-B	Na2S2O3 for Chlorine Redu	OK
1202037012-C	No Preservative Required	OK
1202037012-D	H2SO4 to pH < 2	OK
1202037012-E	No Preservative Required	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

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