Laboratory Report of Analysis

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

Report Number: **1202706**

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: **1202706**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW1 (1202706001) PS

BOD- Dissolved oxygen did not adequately deplete at the minimum depletion requirement of 2mg/L. Sample reported with elevated detection limit. Results are estimated.

1202227001(1565460MS) (1565469) MS

300.0 - Anions - MS recovery for sulfate 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.

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.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW1	1202706001	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW2	1202706002	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW3	1202706003	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW4	1202706004	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW5	1202706005	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW6	1202706006	06/16/2020	06/16/2020	Water (Surface, Eff., Ground)
SW7	1202706007	06/16/2020	06/16/2020	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: 1202706001

Microbiology Laboratory

Parameter	Result	Units
Total Coliform	687	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	1.76	mg/L
Total Kjeldahl Nitrogen	2.72	mg/L
Total Nitrate/Nitrite-N	0.0510J	mg/L
Total Phosphorus	0.110	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1202706002

Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	6.09	mg/L
E. Coli	48	MPN/100mL
Fecal Coliform	60	col/100mL
Total Coliform	GT2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	23.7	mg/L
Total Kjeldahl Nitrogen	22.5	mg/L
Total Phosphorus	2.71	mg/L

Client Sample ID: **SW3**
Lab Sample ID: 1202706003

Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	10.4	mg/L
E. Coli	8	MPN/100mL
Fecal Coliform	5.0	col/100mL
Total Coliform	GT2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	26.0	mg/L
Total Kjeldahl Nitrogen	26.8	mg/L
Total Phosphorus	9.15	mg/L

Client Sample ID: **SW4**
Lab Sample ID: 1202706004

Microbiology Laboratory

Parameter	Result	Units
E. Coli	79	MPN/100mL
Fecal Coliform	58	col/100mL
Total Coliform	GT2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	7.74	mg/L
Nitrate-N	1.43	mg/L
Nitrite-N	0.302	mg/L
Total Kjeldahl Nitrogen	8.66	mg/L
Total Nitrate/Nitrite-N	1.73	mg/L
Total Phosphorus	0.0812	mg/L

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Detectable Results Summary

Client Sample ID: **SW5**
Lab Sample ID: 1202706005

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	80	MPN/100mL
	Fecal Coliform	58	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	3.10	mg/L
	Nitrate-N	0.298	mg/L
	Nitrite-N	0.0970J	mg/L
	Total Kjeldahl Nitrogen	4.47	mg/L
	Total Nitrate/Nitrite-N	0.395	mg/L
	Total Phosphorus	0.162	mg/L

Client Sample ID: **SW6**
Lab Sample ID: 1202706006

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.08	mg/L
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	4.44	mg/L
	Total Kjeldahl Nitrogen	6.12	mg/L
	Total Nitrate/Nitrite-N	0.0520J	mg/L
	Total Phosphorus	1.17	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1202706007

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.23	mg/L
	E. Coli	1	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0370J	mg/L
	Total Kjeldahl Nitrogen	0.526J	mg/L
	Total Nitrate/Nitrite-N	0.0540J	mg/L
	Total Phosphorus	0.0123J	mg/L

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706001
Lab Project ID: 1202706

Collection Date: 06/16/20 12:07
Received Date: 06/16/20 16:52
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	6.00	U	6.00	6.00	mg/L	1		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706001-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		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	687		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706001-D

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706001
Lab Project ID: 1202706

Collection Date: 06/16/20 12:07
Received Date: 06/16/20 16:52
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		06/17/20 14:12
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 14:12
Total Nitrate/Nitrite-N	0.0510	J	0.200	0.0500	mg/L	1		06/17/20 14:12

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 14:12
Container ID: 1202706001-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	1.76		0.100	0.0310	mg/L	1		06/22/20 12:40

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:40
Container ID: 1202706001-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.110		0.0400	0.0120	mg/L	1		06/29/20 15:44

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:44
Container ID: 1202706001-E

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	2.72		1.00	0.310	mg/L	1		06/19/20 11:24

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706001
Lab Project ID: 1202706

Collection Date: 06/16/20 12:07
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:24
Container ID: 1202706001-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
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: 1202706002
Lab Project ID: 1202706

Collection Date: 06/16/20 12:27
Received Date: 06/16/20 16:52
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	6.09		2.00	2.00	mg/L	1		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	60		2.00	2.00	col/100mL	1		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706002-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	48		1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706002-D

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706002
Lab Project ID: 1202706

Collection Date: 06/16/20 12:27
Received Date: 06/16/20 16:52
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		06/17/20 14:31
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 14:31
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 14:31

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 14:31
Container ID: 1202706002-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	23.7		1.00	0.310	mg/L	1		06/22/20 12:42

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:42
Container ID: 1202706002-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	2.71		0.800	0.240	mg/L	1		06/29/20 18:03

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 18:03
Container ID: 1202706002-E

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 16:59
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	22.5		10.0	3.10	mg/L	10		06/19/20 11:31

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706002
Lab Project ID: 1202706

Collection Date: 06/16/20 12:27
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:31
Container ID: 1202706002-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706003
Lab Project ID: 1202706

Collection Date: 06/16/20 12:44
Received Date: 06/16/20 16:52
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	10.4		2.00	2.00	mg/L	1		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.67	1.67	col/100mL	1		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	8		1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706003-D

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706003
Lab Project ID: 1202706

Collection Date: 06/16/20 12:44
Received Date: 06/16/20 16:52
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		06/17/20 14:50
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 14:50
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 14:50

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 14:50
Container ID: 1202706003-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	26.0		1.00	0.310	mg/L	1		06/22/20 12:44

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:44
Container ID: 1202706003-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	9.15		0.800	0.240	mg/L	1		06/29/20 18:04

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 18:04
Container ID: 1202706003-E

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 16:59
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	26.8		10.0	3.10	mg/L	10		06/19/20 11:32

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706003
Lab Project ID: 1202706

Collection Date: 06/16/20 12:44
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:32
Container ID: 1202706003-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
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: 1202706004
Lab Project ID: 1202706

Collection Date: 06/16/20 14:50
Received Date: 06/16/20 16:52
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		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	58		2.00	2.00	col/100mL	1		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706004-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	79		1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706004-D

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Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706004
Lab Project ID: 1202706

Collection Date: 06/16/20 14:50
Received Date: 06/16/20 16:52
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	1.43		0.200	0.0500	mg/L	1		06/17/20 15:09
Nitrite-N	0.302		0.200	0.0500	mg/L	1		06/17/20 15:09
Total Nitrate/Nitrite-N	1.73		0.200	0.0500	mg/L	1		06/17/20 15:09

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 15:09
Container ID: 1202706004-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	7.74		0.200	0.0620	mg/L	1		06/22/20 12:45

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:45
Container ID: 1202706004-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
Prep Initial Wt./Vol.: 3 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0812		0.0400	0.0120	mg/L	1		06/29/20 15:48

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:48
Container ID: 1202706004-E

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	8.66		1.00	0.310	mg/L	1		06/19/20 11:33

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706004
Lab Project ID: 1202706

Collection Date: 06/16/20 14:50
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:33
Container ID: 1202706004-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
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: 1202706005
Lab Project ID: 1202706

Collection Date: 06/16/20 15:08
Received Date: 06/16/20 16:52
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		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	58		2.00	2.00	col/100mL	1		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	80		1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706005-D

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706005
Lab Project ID: 1202706

Collection Date: 06/16/20 15:08
Received Date: 06/16/20 16:52
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	0.298		0.200	0.0500	mg/L	1		06/17/20 15:28
Nitrite-N	0.0970	J	0.200	0.0500	mg/L	1		06/17/20 15:28
Total Nitrate/Nitrite-N	0.395		0.200	0.0500	mg/L	1		06/17/20 15:28

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 15:28
Container ID: 1202706005-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	3.10		0.200	0.0620	mg/L	1		06/22/20 12:47

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:47
Container ID: 1202706005-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
Prep Initial Wt./Vol.: 3 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.162		0.0400	0.0120	mg/L	1		06/29/20 15:49

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:49
Container ID: 1202706005-E

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	4.47		1.00	0.310	mg/L	1		06/19/20 11:34

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706005
Lab Project ID: 1202706

Collection Date: 06/16/20 15:08
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:34
Container ID: 1202706005-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706006
Lab Project ID: 1202706

Collection Date: 06/16/20 14:33
Received Date: 06/16/20 16:52
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	2.08		2.00	2.00	mg/L	1		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706006-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		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706006-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706006-D

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Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706006
Lab Project ID: 1202706

Collection Date: 06/16/20 14:33
Received Date: 06/16/20 16:52
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		06/17/20 15:47
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 15:47
Total Nitrate/Nitrite-N	0.0520	J	0.200	0.0500	mg/L	1		06/17/20 15:47

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 15:47
Container ID: 1202706006-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	4.44		0.200	0.0620	mg/L	1		06/22/20 12:49

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:49
Container ID: 1202706006-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
Prep Initial Wt./Vol.: 3 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	1.17		0.200	0.0600	mg/L	1		06/29/20 18:05

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 18:05
Container ID: 1202706006-E

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 16:59
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	6.12		1.00	0.310	mg/L	1		06/19/20 11:36

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706006
Lab Project ID: 1202706

Collection Date: 06/16/20 14:33
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:36
Container ID: 1202706006-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706007
Lab Project ID: 1202706

Collection Date: 06/16/20 13:50
Received Date: 06/16/20 16:52
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	3.23		2.00	2.00	mg/L	1		06/17/20 20:51

Batch Information

Analytical Batch: BOD6633
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/17/20 20:51
Container ID: 1202706007-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		06/16/20 19:49

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Analyst: A.A
Analytical Date/Time: 06/16/20 19:49
Container ID: 1202706007-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		06/17/20 13:03
Total Coliform	>2420		1	1	MPN/100m	1		06/17/20 13:03

Batch Information

Analytical Batch: BTF18183
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/17/20 13:03
Container ID: 1202706007-D

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706007
Lab Project ID: 1202706

Collection Date: 06/16/20 13:50
Received Date: 06/16/20 16:52
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		06/17/20 16:44
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/17/20 16:44
Total Nitrate/Nitrite-N	0.0540	J	0.200	0.0500	mg/L	1		06/17/20 16:44

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/17/20 16:44
Container ID: 1202706007-B

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 06/17/20 11:00
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	0.0370	J	0.100	0.0310	mg/L	1		06/22/20 12:50

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:50
Container ID: 1202706007-E

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0123	J	0.0400	0.0120	mg/L	1		06/29/20 15:53

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:53
Container ID: 1202706007-E

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	0.526	J	1.00	0.310	mg/L	1		06/19/20 11:37

Print Date: 06/30/2020 4:53:18PM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202706007
Lab Project ID: 1202706

Collection Date: 06/16/20 13:50
Received Date: 06/16/20 16:52
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/19/20 11:37
Container ID: 1202706007-E

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 06/17/20 10:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1807839 [BOD/6633]
Blank Lab ID: 1564417

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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: BOD6633
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 6/17/2020 8:51:49PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [BOD6633]
Blank Spike Lab ID: 1564418
Date Analyzed: 06/17/2020 20:51

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	201	102	(84.6-115.4

Batch Information

Analytical Batch: **BOD6633**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 06/30/2020 4:53:27PM

Method Blank

Blank ID: MB for HBN 1807717 [BTF/18180]
Blank Lab ID: 1564136

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18180
Analytical Method: SM21 9222D
Instrument:
Analyst: A.A
Analytical Date/Time: 6/16/2020 7:49:37PM

Print Date: 06/30/2020 4:53:30PM

Method Blank

Blank ID: MB for HBN 1807750 [BTF/18183]
Blank Lab ID: 1564079

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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: BTF18183
Analytical Method: SM21 9223B
Instrument:
Analyst: VAB
Analytical Date/Time: 6/17/2020 12:39:00PM

Method Blank

Blank ID: MB for HBN 1807853 [WXX/13318]
Blank Lab ID: 1564471

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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: WDA4802
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/19/2020 11:14:17AM

Prep Batch: WXX13318
Prep Method: METHOD
Prep Date/Time: 6/17/2020 10:00:00AM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13318]
Blank Spike Lab ID: 1564472
Date Analyzed: 06/19/2020 11:15

Spike Duplicate ID: LCSD for HBN 1202706 [WXX13318]
Spike Duplicate Lab ID: 1564473
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	3.78	95	4	3.77	94	(75-125)	0.40	(< 25)

Batch Information

Analytical Batch: **WDA4802**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13318**
Prep Method: **METHOD**
Prep Date/Time: **06/17/2020 10:00**
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: 1202706001
MS Sample ID: 1564474 MS
MSD Sample ID: 1564475 MSD

Analysis Date: 06/19/2020 11:24
Analysis Date: 06/19/2020 11:26
Analysis Date: 06/19/2020 11:30
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	2.72	4.00	7.08	109	4.00	6.78	102	75-125	4.30	(< 25)

Batch Information

Analytical Batch: WDA4802
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/19/2020 11:26:06AM

Prep Batch: WXX13318
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/17/2020 10:00:00AM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:53:51PM

Method Blank

Blank ID: MB for HBN 1807936 [WXX/13320]
Blank Lab ID: 1564900

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0400J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 12:15:44PM

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Method Blank

Blank ID: MB for HBN 1807936 [WXX/13320]
Blank Lab ID: 1564905

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0312J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 1:48:59PM

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13320]
Blank Spike Lab ID: 1564901
Date Analyzed: 06/22/2020 12:17

Spike Duplicate ID: LCSD for HBN 1202706 [WXX13320]
Spike Duplicate Lab ID: 1564902
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	0.960	96	1	1.02	102	(75-125)	5.80	(< 25)

Batch Information

Analytical Batch: **WDA4804**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13320**
Prep Method: **METHOD**
Prep Date/Time: **06/22/2020 11:00**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13320]
Blank Spike Lab ID: 1564906
Date Analyzed: 06/22/2020 13:50

Spike Duplicate ID: LCSD for HBN 1202706 [WXX13320]
Spike Duplicate Lab ID: 1564907
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	1.21	121	1	1.12	112	(75-125)	7.20	(< 25)

Batch Information

Analytical Batch: **WDA4804**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13320**
Prep Method: **METHOD**
Prep Date/Time: **06/22/2020 11:00**
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: 1202619001
MS Sample ID: 1564903 MS
MSD Sample ID: 1564904 MSD

Analysis Date: 06/22/2020 12:22
Analysis Date: 06/22/2020 12:24
Analysis Date: 06/22/2020 12:25
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	1.05	105	1.00	1.07	107	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 12:24:07PM

Prep Batch: WXX13320
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/30/2020 4:54:01PM

Matrix Spike Summary

Original Sample ID: 1202804005
MS Sample ID: 1564908 MS
MSD Sample ID: 1564909 MSD

Analysis Date: 06/22/2020 14:17
Analysis Date: 06/22/2020 14:18
Analysis Date: 06/22/2020 14:20
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	0.111	1.00	1.02	91	1.00	1.07	96	75-125	5.20	(< 25)

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 2:18:55PM

Prep Batch: WXX13320
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/30/2020 4:54:01PM

Method Blank

Blank ID: MB for HBN 1808066 [WXX/13323]
Blank Lab ID: 1565466

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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: WIC6052
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/17/2020 1:15:15PM

Prep Batch: WXX13323
Prep Method: METHOD
Prep Date/Time: 6/17/2020 11:00:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13323]
Blank Spike Lab ID: 1565467
Date Analyzed: 06/17/2020 13:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.08	102	(90-110)
Nitrite-N	5	4.90	98	(90-110)
Total Nitrate/Nitrite-N	10	9.98	100	(90-110)

Batch Information

Analytical Batch: **WIC6052**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13323**
Prep Method: **METHOD**
Prep Date/Time: **06/17/2020 11:00**
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: 1565460
MS Sample ID: 1565469 MS
MSD Sample ID:

Analysis Date: 06/17/2020 17:03
Analysis Date: 06/17/2020 17:22
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706002, 1202706003, 1202706004, 1202706005, 1202706006, 1202706007

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	0.112J	5.00	4.7	92				90-110		
Nitrite-N	0.100U	5.00	4.99	100				90-110		

Batch Information

Analytical Batch: WIC6052
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/17/2020 5:22:59PM

Prep Batch: WXX13323
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 6/17/2020 11:00:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/30/2020 4:54:12PM

Method Blank

Blank ID: MB for HBN 1808278 [WXX/13328]
Blank Lab ID: 1566499

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706001, 1202706004, 1202706005, 1202706007

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: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 3:41:11PM

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13328]
Blank Spike Lab ID: 1566500
Date Analyzed: 06/29/2020 15:42

Spike Duplicate ID: LCSD for HBN 1202706 [WXX13328]
Spike Duplicate Lab ID: 1566501
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706004, 1202706005, 1202706007

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	0.202	101	0.2	0.203	102	(75-125)	0.89	(< 25)

Batch Information

Analytical Batch: **WDA4806**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13328**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **06/29/2020 12:31**
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: 1202706001
MS Sample ID: 1566502 MS
MSD Sample ID: 1566503 MSD

Analysis Date: 06/29/2020 15:44
Analysis Date: 06/29/2020 15:45
Analysis Date: 06/29/2020 15:46
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706001, 1202706004, 1202706005, 1202706007

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	0.110	0.200	.312	101	0.200	0.310	100	75-125	0.74	(< 25)

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 3:45:04PM

Prep Batch: WXX13328
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:54:21PM

Method Blank

Blank ID: MB for HBN 1808279 [WXX/13329]
Blank Lab ID: 1566504

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202706002, 1202706003, 1202706006

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: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:09:35PM

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202706 [WXX13329]
Blank Spike Lab ID: 1566505
Date Analyzed: 06/29/2020 16:10

Spike Duplicate ID: LCSD for HBN 1202706 [WXX13329]
Spike Duplicate Lab ID: 1566506
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706002, 1202706003, 1202706006

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	0.199	100	0.2	0.194	97	(75-125)	2.50	(< 25)

Batch Information

Analytical Batch: **WDA4806**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13329**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **06/29/2020 12:31**
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: 1209374001
MS Sample ID: 1566507 MS
MSD Sample ID: 1566508 MSD

Analysis Date: 06/29/2020 16:12
Analysis Date: 06/29/2020 16:13
Analysis Date: 06/29/2020 16:16
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202706002, 1202706003, 1202706006

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	0.0200U	0.200	.202	101	0.200	0.203	102	75-125	0.64	(< 25)

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:13:26PM

Prep Batch: WXX13329
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:54:32PM

SGS

SG CHAIN **1202706**

348183 NSW 6/16/2020 www.us.sgs.com

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Jake Alward — PHONE #: 343-5202

PROJECT NAME: — PROJECT/ PWSID/ PERMIT#:

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

INVOICE TO: — QUOTE #: — P.O. #: 24700415

Section 3

Preservative: / / $Na_2S_2O_3$ / $Na_2S_2O_3$ / H_2SO_4

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	FC	FC (Quant) 1x10^x	TKN/Ammonia/TP	REMARKS/LOC ID
1 A-E	SW1	6/16/20	1207	water	5	G	1	1	1	1	1	
2 A-E	SW2		1227				1	1	1	1	1	
3 A-E	SW3		1244				1	1	1	1	1	
4 A-E	SW4		1450				1	1	1	1	1	
5 A-E	SW5		1508				1	1	1	1	1	
6 A-E	SW6		1433				1	1	1	1	1	
7 A-E	SW7		1350				1	1	1	1	1	

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

Section 5

	Date	Time	
Relinquished By: (1)	6/16/20	1651	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	6/16/2020	1652	Received For Laboratory By: NSW

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 7.2 D63 or Ambient [ ]

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

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

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

e-Sample Receipt Form

SGS Workorder #: **1202706**

1 2 0 2 7 0 6

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	hand-delivered
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 @ 7.2 °C Therm. ID: D63
	n/a	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.	n/a	Cooler ID: @ °C Therm. ID:
	n/a	Cooler ID: @ °C Therm. ID:
	n/a	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,200.8/6020B).
Were proper containers (type/mass/volume/preservative***)used?	yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	n/a	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	n/a	
Were all soil VOAs field extracted with MeOH+BFB?	n/a	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1202706001-A	No Preservative Required	OK			
1202706001-B	No Preservative Required	OK			
1202706001-C	Na2S2O3 for Chlorine Redu	OK			
1202706001-D	Na2S2O3 for Chlorine Redu	OK			
1202706001-E	H2SO4 to pH < 2	OK			
1202706002-A	No Preservative Required	OK			
1202706002-B	No Preservative Required	OK			
1202706002-C	Na2S2O3 for Chlorine Redu	OK			
1202706002-D	Na2S2O3 for Chlorine Redu	OK			
1202706002-E	H2SO4 to pH < 2	OK			
1202706003-A	No Preservative Required	OK			
1202706003-B	No Preservative Required	OK			
1202706003-C	Na2S2O3 for Chlorine Redu	OK			
1202706003-D	Na2S2O3 for Chlorine Redu	OK			
1202706003-E	H2SO4 to pH < 2	OK			
1202706004-A	No Preservative Required	OK			
1202706004-B	No Preservative Required	OK			
1202706004-C	Na2S2O3 for Chlorine Redu	OK			
1202706004-D	Na2S2O3 for Chlorine Redu	OK			
1202706004-E	H2SO4 to pH < 2	OK			
1202706005-A	No Preservative Required	OK			
1202706005-B	No Preservative Required	OK			
1202706005-C	Na2S2O3 for Chlorine Redu	OK			
1202706005-D	Na2S2O3 for Chlorine Redu	OK			
1202706005-E	H2SO4 to pH < 2	OK			
1202706006-A	No Preservative Required	OK			
1202706006-B	No Preservative Required	OK			
1202706006-C	Na2S2O3 for Chlorine Redu	OK			
1202706006-D	Na2S2O3 for Chlorine Redu	OK			
1202706006-E	H2SO4 to pH < 2	OK			
1202706007-A	No Preservative Required	OK			
1202706007-B	No Preservative Required	OK			
1202706007-C	Na2S2O3 for Chlorine Redu	OK			
1202706007-D	Na2S2O3 for Chlorine Redu	OK			
1202706007-E	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: **1202734**

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: **1202734**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

Eff (1202734013) PS

5210B – BOD -LCS recovery is biased high (131%). The maximum allowable limit for the LCS is 228.5 mg/L.

LCSS for HBN 1807841 [BOD/6635 (1564422) LCSS

5210B – BOD -LCS recovery is biased high (131%). The maximum allowable limit for the LCS is 228.5 mg/L.

MB for HBN 1807840 [BOD/6634] (1564419) MB

5210B – BOD - MB (0.21 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected. Samples <10X the MB results may be biased high.

MB for HBN 1807841 [BOD/6635] (1564421) MB

5210B – BOD - MB (0.26 mg/L) is greater than the recommended limit of 0.2 mg/L. Samples >10X the MB are not significantly affected.

1209299002(1565495MS) (1565496) MS

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

1202328007(1565500MS) (1565501) MS

300.0 - Anions - MS recovery for sulfate 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.

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW8	1202734001	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW9	1202734002	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW10	1202734003	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW11	1202734004	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW12	1202734005	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW13	1202734006	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW14	1202734007	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW15	1202734008	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW16	1202734009	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW17	1202734010	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
SW18	1202734011	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
Dup	1202734012	06/17/2020	06/17/2020	Water (Surface, Eff., Ground)
Eff	1202734013	06/17/2020	06/17/2020	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: 1202734001

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	1986	MPN/100mL
Waters Department	Ammonia-N	0.0495J	mg/L
	Total Kjeldahl Nitrogen	0.380J	mg/L
	Total Nitrate/Nitrite-N	0.0510J	mg/L
	Total Phosphorus	0.0241J	mg/L

Client Sample ID: **SW9**
Lab Sample ID: 1202734002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	6.39	mg/L
	E. Coli	111	MPN/100mL
	Fecal Coliform	63	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	3.62	mg/L
	Total Kjeldahl Nitrogen	4.29	mg/L
	Total Phosphorus	0.675	mg/L

Client Sample ID: **SW10**
Lab Sample ID: 1202734003

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.23	mg/L
	E. Coli	4	MPN/100mL
	Fecal Coliform	5.0	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	1.26	mg/L
	Total Kjeldahl Nitrogen	1.93	mg/L
	Total Phosphorus	0.0224J	mg/L

Client Sample ID: **SW11**
Lab Sample ID: 1202734004

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.02	mg/L
	Total Coliform	517	MPN/100mL
Waters Department	Ammonia-N	0.0479J	mg/L
	Total Nitrate/Nitrite-N	0.0540J	mg/L
	Total Phosphorus	0.0330J	mg/L

Client Sample ID: **SW12**
Lab Sample ID: 1202734005

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	2	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0490J	mg/L
	Total Phosphorus	0.0120J	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1202734006

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	90	MPN/100mL
	Fecal Coliform	69	col/100mL
	Total Coliform	2140	MPN/100mL
Waters Department	Ammonia-N	0.0640J	mg/L

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Detectable Results Summary

Client Sample ID: **SW14**
Lab Sample ID: 1202734007

	Parameter	Result	Units
Microbiology Laboratory	Fecal Coliform	2.0	col/100mL
	Total Coliform	15530	MPN/100mL
Waters Department	Ammonia-N	0.0470J	mg/L
	Total Nitrate/Nitrite-N	0.0560J	mg/L
	Total Phosphorus	0.0343J	mg/L

Client Sample ID: **SW15**
Lab Sample ID: 1202734008

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	102	MPN/100mL
	Fecal Coliform	110	col/100mL
	Total Coliform	727	MPN/100mL
Waters Department	Ammonia-N	0.0499J	mg/L
	Total Nitrate/Nitrite-N	0.0540J	mg/L

Client Sample ID: **SW16**
Lab Sample ID: 1202734009

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	172	MPN/100mL
Waters Department	Ammonia-N	0.0511J	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1202734010

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.22	mg/L
	E. Coli	14	MPN/100mL
	Fecal Coliform	12	col/100mL
	Total Coliform	1733	MPN/100mL
Waters Department	Ammonia-N	0.0468J	mg/L
	Nitrate-N	0.817	mg/L
	Total Kjeldahl Nitrogen	0.526J	mg/L
	Total Nitrate/Nitrite-N	0.842	mg/L
	Total Phosphorus	0.130	mg/L

Client Sample ID: **SW18**
Lab Sample ID: 1202734011

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.85	mg/L
	E. Coli	20	MPN/100mL
	Fecal Coliform	100	col/100mL
	Total Coliform	866	MPN/100mL
Waters Department	Ammonia-N	0.138	mg/L
	Nitrate-N	0.940	mg/L
	Total Nitrate/Nitrite-N	0.972	mg/L
	Total Phosphorus	0.314	mg/L

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Detectable Results Summary

Client Sample ID: **Dup**
Lab Sample ID: 1202734012

Microbiology Laboratory

Parameter	Result	Units
E. Coli	14	MPN/100mL
Fecal Coliform	10	col/100mL
Total Coliform	1553	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.0700J	mg/L
Nitrate-N	0.821	mg/L
Total Nitrate/Nitrite-N	0.847	mg/L
Total Phosphorus	0.154	mg/L

Client Sample ID: **Eff**
Lab Sample ID: 1202734013

Microbiology Laboratory

Parameter	Result	Units
Biochemical Oxygen Demand	51.9	mg/L
E. Coli	240	MPN/100mL
Fecal Coliform	217	col/100mL
Total Coliform	GT2420	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	17.1	mg/L
Nitrate-N	18.2	mg/L
Nitrite-N	1.30	mg/L
Total Kjeldahl Nitrogen	23.6	mg/L
Total Nitrate/Nitrite-N	19.5	mg/L
Total Phosphorus	6.38	mg/L

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Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734001
Lab Project ID: 1202734

Collection Date: 06/17/20 12:05
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734001-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		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	1986		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734001-B

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734001
Lab Project ID: 1202734

Collection Date: 06/17/20 12:05
Received Date: 06/17/20 17:02
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		06/18/20 20:22
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 20:22
Total Nitrate/Nitrite-N	0.0510	J	0.200	0.0500	mg/L	1		06/18/20 20:22

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 20:22
Container ID: 1202734001-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0495	J	0.100	0.0310	mg/L	1		06/22/20 12:57

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:57
Container ID: 1202734001-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0241	J	0.0400	0.0120	mg/L	1		06/29/20 15:54

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:54
Container ID: 1202734001-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	0.380	J	1.00	0.310	mg/L	1		06/30/20 10:47

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734001
Lab Project ID: 1202734

Collection Date: 06/17/20 12:05
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:47
Container ID: 1202734001-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
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: 1202734002
Lab Project ID: 1202734

Collection Date: 06/17/20 11:55
Received Date: 06/17/20 17:02
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	6.39		2.00	2.00	mg/L	1		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	63		1.00	1.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	111		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	2420		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734002-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734002
Lab Project ID: 1202734

Collection Date: 06/17/20 11:55
Received Date: 06/17/20 17:02
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		06/18/20 20:41
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 20:41
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 20:41

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 20:41
Container ID: 1202734002-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	3.62		0.100	0.0310	mg/L	1		06/22/20 12:59

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 12:59
Container ID: 1202734002-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.675		0.200	0.0600	mg/L	1		06/29/20 18:05

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 18:05
Container ID: 1202734002-D

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 16:59
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	4.29		1.00	0.310	mg/L	1		06/30/20 10:51

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734002
Lab Project ID: 1202734

Collection Date: 06/17/20 11:55
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:51
Container ID: 1202734002-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734003
Lab Project ID: 1202734

Collection Date: 06/17/20 11:41
Received Date: 06/17/20 17:02
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	3.23		2.00	2.00	mg/L	1		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.67	1.67	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	2420		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734003-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734003
Lab Project ID: 1202734

Collection Date: 06/17/20 11:41
Received Date: 06/17/20 17:02
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		06/18/20 21:00
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 21:00
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 21:00

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 21:00
Container ID: 1202734003-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	1.26		0.100	0.0310	mg/L	1		06/22/20 13:00

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:00
Container ID: 1202734003-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0224	J	0.0400	0.0120	mg/L	1		06/29/20 15:56

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:56
Container ID: 1202734003-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	1.93		1.00	0.310	mg/L	1		06/30/20 10:52

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734003
Lab Project ID: 1202734

Collection Date: 06/17/20 11:41
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:52
Container ID: 1202734003-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734004
Lab Project ID: 1202734

Collection Date: 06/17/20 12:35
Received Date: 06/17/20 17:02
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	2.02		2.00	2.00	mg/L	1		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.00	U	2.00	2.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	517		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734004-B

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734004
Lab Project ID: 1202734

Collection Date: 06/17/20 12:35
Received Date: 06/17/20 17:02
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		06/18/20 21:19
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 21:19
Total Nitrate/Nitrite-N	0.0540 J		0.200	0.0500	mg/L	1		06/18/20 21:19

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 21:19
Container ID: 1202734004-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0479 J		0.100	0.0310	mg/L	1		06/22/20 13:02

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:02
Container ID: 1202734004-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0330 J		0.0400	0.0120	mg/L	1		06/29/20 15:57

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:57
Container ID: 1202734004-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 10:54

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734004
Lab Project ID: 1202734

Collection Date: 06/17/20 12:35
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:54
Container ID: 1202734004-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734005
Lab Project ID: 1202734

Collection Date: 06/17/20 13:01
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10.0 U		10.0	10.0	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	>2420		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734005-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734005
Lab Project ID: 1202734

Collection Date: 06/17/20 13:01
Received Date: 06/17/20 17:02
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		06/18/20 21:38
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 21:38
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 21:38

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 21:38
Container ID: 1202734005-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0490 J		0.100	0.0310	mg/L	1		06/22/20 13:54

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:54
Container ID: 1202734005-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0120 J		0.0400	0.0120	mg/L	1		06/29/20 15:58

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:58
Container ID: 1202734005-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 10:55

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J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734005
Lab Project ID: 1202734

Collection Date: 06/17/20 13:01
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:55
Container ID: 1202734005-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
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: 1202734006
Lab Project ID: 1202734

Collection Date: 06/17/20 13:23
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	69		7.69	7.69	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	90		10	10	MPN/100m	10		06/18/20 12:26
Total Coliform	2140		10	10	MPN/100m	10		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734006-B

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734006
Lab Project ID: 1202734

Collection Date: 06/17/20 13:23
Received Date: 06/17/20 17:02
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		06/18/20 21:57
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 21:57
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 21:57

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 21:57
Container ID: 1202734006-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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		06/22/20 13:55

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:55
Container ID: 1202734006-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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		06/29/20 15:59

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 15:59
Container ID: 1202734006-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 10:59

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734006
Lab Project ID: 1202734

Collection Date: 06/17/20 13:23
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 10:59
Container ID: 1202734006-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734007
Lab Project ID: 1202734

Collection Date: 06/17/20 14:05
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		06/18/20 12:26
Total Coliform	15530		10	10	MPN/100m	10		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734007-B

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734007
Lab Project ID: 1202734

Collection Date: 06/17/20 14:05
Received Date: 06/17/20 17:02
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		06/18/20 23:13
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/18/20 23:13
Total Nitrate/Nitrite-N	0.0560 J		0.200	0.0500	mg/L	1		06/18/20 23:13

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 23:13
Container ID: 1202734007-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0470 J		0.100	0.0310	mg/L	1		06/22/20 13:57

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:57
Container ID: 1202734007-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.0343 J		0.0400	0.0120	mg/L	1		06/29/20 16:00

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:00
Container ID: 1202734007-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 11:00

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J flagging is activated

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734007
Lab Project ID: 1202734

Collection Date: 06/17/20 14:05
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:00
Container ID: 1202734007-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734008
Lab Project ID: 1202734

Collection Date: 06/17/20 13:51
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	110		1.67	1.67	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	102		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	727		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734008-B

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734008
Lab Project ID: 1202734

Collection Date: 06/17/20 13:51
Received Date: 06/17/20 17:02
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		06/18/20 23:32
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 23:32
Total Nitrate/Nitrite-N	0.0540	J	0.200	0.0500	mg/L	1		06/18/20 23:32

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 23:32
Container ID: 1202734008-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0499	J	0.100	0.0310	mg/L	1		06/22/20 13:59

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 13:59
Container ID: 1202734008-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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		06/29/20 16:01

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:01
Container ID: 1202734008-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 11:02

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J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734008
Lab Project ID: 1202734

Collection Date: 06/17/20 13:51
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:02
Container ID: 1202734008-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734009
Lab Project ID: 1202734

Collection Date: 06/17/20 13:37
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1 U		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	172		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734009-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734009
Lab Project ID: 1202734

Collection Date: 06/17/20 13:37
Received Date: 06/17/20 17:02
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		06/18/20 23:51
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 23:51
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		06/18/20 23:51

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/18/20 23:51
Container ID: 1202734009-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0511	J	0.100	0.0310	mg/L	1		06/22/20 14:00

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 14:00
Container ID: 1202734009-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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		06/29/20 16:04

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:04
Container ID: 1202734009-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 11:03

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734009
Lab Project ID: 1202734

Collection Date: 06/17/20 13:37
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:03
Container ID: 1202734009-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734010
Lab Project ID: 1202734

Collection Date: 06/17/20 14:48
Received Date: 06/17/20 17:02
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	2.22		2.00	2.00	mg/L	1		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	12		2.00	2.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	14		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	1733		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734010-B

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734010
Lab Project ID: 1202734

Collection Date: 06/17/20 14:48
Received Date: 06/17/20 17:02
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	0.817		0.200	0.0500	mg/L	1		06/19/20 00:10
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/19/20 00:10
Total Nitrate/Nitrite-N	0.842		0.200	0.0500	mg/L	1		06/19/20 00:10

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/19/20 00:10
Container ID: 1202734010-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0468 J		0.100	0.0310	mg/L	1		06/22/20 14:02

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 14:02
Container ID: 1202734010-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.130		0.0400	0.0120	mg/L	1		06/29/20 16:05

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:05
Container ID: 1202734010-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	0.526 J		1.00	0.310	mg/L	1		06/30/20 11:04

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734010
Lab Project ID: 1202734

Collection Date: 06/17/20 14:48
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:04
Container ID: 1202734010-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734011
Lab Project ID: 1202734

Collection Date: 06/17/20 15:05
Received Date: 06/17/20 17:02
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	2.85		2.00	2.00	mg/L	1		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	100		1.00	1.00	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	866		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734011-B

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734011
Lab Project ID: 1202734

Collection Date: 06/17/20 15:05
Received Date: 06/17/20 17:02
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	0.940		0.200	0.0500	mg/L	1		06/19/20 00:29
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/19/20 00:29
Total Nitrate/Nitrite-N	0.972		0.200	0.0500	mg/L	1		06/19/20 00:29

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/19/20 00:29
Container ID: 1202734011-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.138		0.100	0.0310	mg/L	1		06/22/20 14:03

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 14:03
Container ID: 1202734011-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.314		0.0400	0.0120	mg/L	1		06/29/20 16:06

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:06
Container ID: 1202734011-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 11:06

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734011
Lab Project ID: 1202734

Collection Date: 06/17/20 15:05
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:06
Container ID: 1202734011-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Dup**

Client Sample ID: **Dup**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734012
Lab Project ID: 1202734

Collection Date: 06/17/20 14:52
Received Date: 06/17/20 17:02
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		06/18/20 15:15

Batch Information

Analytical Batch: BOD6634
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:15
Container ID: 1202734012-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		1.67	1.67	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	14		1	1	MPN/100m	1		06/18/20 12:26
Total Coliform	1553		1	1	MPN/100m	1		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734012-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Dup**

Client Sample ID: **Dup**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734012
Lab Project ID: 1202734

Collection Date: 06/17/20 14:52
Received Date: 06/17/20 17:02
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	0.821		0.200	0.0500	mg/L	1		06/19/20 00:48
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		06/19/20 00:48
Total Nitrate/Nitrite-N	0.847		0.200	0.0500	mg/L	1		06/19/20 00:48

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/19/20 00:48
Container ID: 1202734012-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	0.0700 J		0.100	0.0310	mg/L	1		06/22/20 14:08

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 14:08
Container ID: 1202734012-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	0.154		0.0400	0.0120	mg/L	1		06/29/20 16:07

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:07
Container ID: 1202734012-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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		06/30/20 11:07

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Dup**

Client Sample ID: **Dup**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734012
Lab Project ID: 1202734

Collection Date: 06/17/20 14:52
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:07
Container ID: 1202734012-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Eff**

Client Sample ID: **Eff**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734013
Lab Project ID: 1202734

Collection Date: 06/17/20 15:19
Received Date: 06/17/20 17:02
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	51.9		2.00	2.00	mg/L	1		06/18/20 15:24

Batch Information

Analytical Batch: BOD6635
Analytical Method: SM21 5210B
Analyst: VAB
Analytical Date/Time: 06/18/20 15:24
Container ID: 1202734013-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	217		16.7	16.7	col/100mL	1		06/17/20 19:36

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Analyst: VAB
Analytical Date/Time: 06/17/20 19:36
Container ID: 1202734013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	240		10	10	MPN/100m	10		06/18/20 12:26
Total Coliform	>2420		10	10	MPN/100m	10		06/18/20 12:26

Batch Information

Analytical Batch: BTF18189
Analytical Method: SM21 9223B
Analyst: VAB
Analytical Date/Time: 06/18/20 12:26
Container ID: 1202734013-B

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Eff**

Client Sample ID: **Eff**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734013
Lab Project ID: 1202734

Collection Date: 06/17/20 15:19
Received Date: 06/17/20 17:02
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	18.2		0.200	0.0500	mg/L	1		06/19/20 01:07
Nitrite-N	1.30		0.200	0.0500	mg/L	1		06/19/20 01:07
Total Nitrate/Nitrite-N	19.5		0.200	0.0500	mg/L	1		06/19/20 01:07

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 06/19/20 01:07
Container ID: 1202734013-C

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 06/18/20 17:00
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	17.1		0.500	0.155	mg/L	1		06/22/20 15:11

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 06/22/20 15:11
Container ID: 1202734013-D

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 06/22/20 11:00
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	6.38		0.800	0.240	mg/L	1		06/29/20 16:08

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:08
Container ID: 1202734013-D

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	23.6		5.00	1.55	mg/L	1		06/30/20 11:08

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Results of **Eff**

Client Sample ID: **Eff**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202734013
Lab Project ID: 1202734

Collection Date: 06/17/20 15:19
Received Date: 06/17/20 17:02
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:08
Container ID: 1202734013-D

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Print Date: 06/30/2020 4:25:44PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1807840 [BOD/6634]
Blank Lab ID: 1564419

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012

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: BOD6634
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 6/18/2020 3:15:32PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [BOD6634]
Blank Spike Lab ID: 1564420
Date Analyzed: 06/18/2020 15:15

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	199	101	(84.6-115.4

Batch Information

Analytical Batch: **BOD6634**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 06/30/2020 4:25:52PM

Method Blank

Blank ID: MB for HBN 1807841 [BOD/6635]
Blank Lab ID: 1564421

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734013

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: BOD6635
Analytical Method: SM21 5210B
Instrument:
Analyst: VAB
Analytical Date/Time: 6/18/2020 3:24:10PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [BOD6635]
Blank Spike Lab ID: 1564422
Date Analyzed: 06/18/2020 15:24

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734013

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)		CL
Biochemical Oxygen Demand	198	259	131	*	(84.6-115.4

Batch Information

Analytical Batch: **BOD6635**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **VAB**

Print Date: 06/30/2020 4:25:57PM

Method Blank

Blank ID: MB for HBN 1807768 [BTF/18186]
Blank Lab ID: 1564134

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18186
Analytical Method: SM21 9222D
Instrument:
Analyst: VAB
Analytical Date/Time: 6/17/2020 7:36:12PM

Print Date: 06/30/2020 4:26:00PM

Method Blank

Blank ID: MB for HBN 1807799 [BTF/18189]
Blank Lab ID: 1564260

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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: BTF18189
Analytical Method: SM21 9223B
Instrument:
Analyst: VAB
Analytical Date/Time: 6/18/2020 12:26:00PM

Print Date: 06/30/2020 4:26:05PM

Method Blank

Blank ID: MB for HBN 1807936 [WXX/13320]
Blank Lab ID: 1564900

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0400J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 12:15:44PM

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Method Blank

Blank ID: MB for HBN 1807936 [WXX/13320]
Blank Lab ID: 1564905

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0312J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 1:48:59PM

Prep Batch: WXX13320
Prep Method: METHOD
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13320]
Blank Spike Lab ID: 1564901
Date Analyzed: 06/22/2020 12:17

Spike Duplicate ID: LCSD for HBN 1202734 [WXX13320]
Spike Duplicate Lab ID: 1564902
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.960	96	1	1.02	102	(75-125)	5.80	(< 25)

Batch Information

Analytical Batch: **WDA4804**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13320**
Prep Method: **METHOD**
Prep Date/Time: **06/22/2020 11:00**
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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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13320]
Blank Spike Lab ID: 1564906
Date Analyzed: 06/22/2020 13:50

Spike Duplicate ID: LCSD for HBN 1202734 [WXX13320]
Spike Duplicate Lab ID: 1564907
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	1.21	121	1	1.12	112	(75-125)	7.20	(< 25)

Batch Information

Analytical Batch: **WDA4804**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13320**
Prep Method: **METHOD**
Prep Date/Time: **06/22/2020 11:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

Print Date: 06/30/2020 4:26:13PM

Matrix Spike Summary

Original Sample ID: 1202619001
MS Sample ID: 1564903 MS
MSD Sample ID: 1564904 MSD

Analysis Date: 06/22/2020 12:22
Analysis Date: 06/22/2020 12:24
Analysis Date: 06/22/2020 12:25
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.100U	1.00	1.05	105	1.00	1.07	107	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 12:24:07PM

Prep Batch: WXX13320
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/30/2020 4:26:15PM

Matrix Spike Summary

Original Sample ID: 1202804005
MS Sample ID: 1564908 MS
MSD Sample ID: 1564909 MSD

Analysis Date: 06/22/2020 14:17
Analysis Date: 06/22/2020 14:18
Analysis Date: 06/22/2020 14:20
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.111	1.00	1.02	91	1.00	1.07	96	75-125	5.20	(< 25)

Batch Information

Analytical Batch: WDA4804
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/22/2020 2:18:55PM

Prep Batch: WXX13320
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 6/22/2020 11:00:00AM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 06/30/2020 4:26:15PM

Method Blank

Blank ID: MB for HBN 1808072 [WXX/13324]
Blank Lab ID: 1565492

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.0670J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/18/2020 7:25:00PM

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 6/18/2020 5:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Method Blank

Blank ID: MB for HBN 1808072 [WXX/13324]
Blank Lab ID: 1565498

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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: WIC6053
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/19/2020 5:15:18AM

Prep Batch: WXX13324
Prep Method: METHOD
Prep Date/Time: 6/18/2020 5:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13324]
Blank Spike Lab ID: 1565493
Date Analyzed: 06/18/2020 19:44

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.17	103	(90-110)
Nitrite-N	5	5.12	102	(90-110)
Total Nitrate/Nitrite-N	10	10.3	103	(90-110)

Batch Information

Analytical Batch: **WIC6053**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13324**
Prep Method: **METHOD**
Prep Date/Time: **06/18/2020 17:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/30/2020 4:26:20PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13324]
Blank Spike Lab ID: 1565499
Date Analyzed: 06/19/2020 05:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.18	104	(90-110)
Nitrite-N	5	5.10	102	(90-110)
Total Nitrate/Nitrite-N	10	10.3	103	(90-110)

Batch Information

Analytical Batch: **WIC6053**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX13324**
Prep Method: **METHOD**
Prep Date/Time: **06/18/2020 17:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 06/30/2020 4:26:20PM

Matrix Spike Summary

Original Sample ID: 1565495
MS Sample ID: 1565496 MS
MSD Sample ID:

Analysis Date: 06/19/2020 2:04
Analysis Date: 06/19/2020 3:21
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.200U	10.0	9.77	98				90-110		
Nitrite-N	0.200U	10.0	10.7	107				90-110		

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/19/2020 3:21:03AM

Prep Batch: WXX13324
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 6/18/2020 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/30/2020 4:26:22PM

Matrix Spike Summary

Original Sample ID: 1565500
MS Sample ID: 1565501 MS
MSD Sample ID:

Analysis Date: 06/19/2020 7:47
Analysis Date: 06/19/2020 8:06
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.350	5.00	5.12	95				90-110		
Nitrite-N	0.100U	5.00	5.25	105				90-110		

Batch Information

Analytical Batch: WIC6053
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 6/19/2020 8:06:41AM

Prep Batch: WXX13324
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 6/18/2020 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 06/30/2020 4:26:22PM

Method Blank

Blank ID: MB for HBN 1808278 [WXX/13328]
Blank Lab ID: 1566499

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 3:41:11PM

Prep Batch: WXX13328
Prep Method: SM21 4500P-B,E
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13328]
Blank Spike Lab ID: 1566500
Date Analyzed: 06/29/2020 15:42

Spike Duplicate ID: LCSD for HBN 1202734 [WXX13328]
Spike Duplicate Lab ID: 1566501
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.202	101	0.2	0.203	102	(75-125)	0.89	(< 25)

Batch Information

Analytical Batch: **WDA4806**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13328**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **06/29/2020 12:31**
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: 1202706001
MS Sample ID: 1566502 MS
MSD Sample ID: 1566503 MSD

Analysis Date: 06/29/2020 15:44
Analysis Date: 06/29/2020 15:45
Analysis Date: 06/29/2020 15:46
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.110	0.200	.312	101	0.200	0.310	100	75-125	0.74	(< 25)

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 3:45:04PM

Prep Batch: WXX13328
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:26:27PM

Method Blank

Blank ID: MB for HBN 1808279 [WXX/13329]
Blank Lab ID: 1566504

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734002

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: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:09:35PM

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13329]
Blank Spike Lab ID: 1566505
Date Analyzed: 06/29/2020 16:10

Spike Duplicate ID: LCSD for HBN 1202734 [WXX13329]
Spike Duplicate Lab ID: 1566506
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734002

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	0.199	100	0.2	0.194	97	(75-125)	2.50	(< 25)

Batch Information

Analytical Batch: **WDA4806**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13329**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **06/29/2020 12:31**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

Print Date: 06/30/2020 4:26:32PM

Matrix Spike Summary

Original Sample ID: 1209374001
MS Sample ID: 1566507 MS
MSD Sample ID: 1566508 MSD

QC for Samples: 1202734002

Analysis Date: 06/29/2020 16:12
Analysis Date: 06/29/2020 16:13
Analysis Date: 06/29/2020 16:16
Matrix: Water (Surface, Eff., Ground)

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	0.0200U	0.200	.202	101	0.200	0.203	102	75-125	0.64	(< 25)

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:13:26PM

Prep Batch: WXX13329
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:26:34PM

Method Blank

Blank ID: MB for HBN 1808311 [WXX/13330]
Blank Lab ID: 1566652

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 10:43:43AM

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202734 [WXX13330]
Blank Spike Lab ID: 1566653
Date Analyzed: 06/30/2020 10:45

Spike Duplicate ID: LCSD for HBN 1202734 [WXX13330]
Spike Duplicate Lab ID: 1566654
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	4.29	107	4	4.00	100	(75-125)	7.00	(< 25)

Batch Information

Analytical Batch: **WDA4807**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13330**
Prep Method: **METHOD**
Prep Date/Time: **06/29/2020 13:46**
Spike Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 4 mg/L Extract Vol: 25 mL

Print Date: 06/30/2020 4:26:38PM

Matrix Spike Summary

Original Sample ID: 1202734001
MS Sample ID: 1566655 MS
MSD Sample ID: 1566656 MSD

Analysis Date: 06/30/2020 10:47
Analysis Date: 06/30/2020 10:48
Analysis Date: 06/30/2020 10:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202734001, 1202734002, 1202734003, 1202734004, 1202734005, 1202734006, 1202734007, 1202734008, 1202734009, 1202734010, 1202734011, 1202734012, 1202734013

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	0.380J	4.00	4.08	92	4.00	4.34	99	75-125	6.40	(< 25)

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 10:48:58AM

Prep Batch: WXX13330
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 06/30/2020 4:26:40PM

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CHAIN OF CUSTODY RECORD

1202734

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Instructions: Sections [illegible] out.
Omissions may delay the onset of analysis.

Page 1 of 2

Section 1

CLIENT: Stantec

CONTACT: Jake Allward — PHONE #: 343-5202

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

REPORTS TO: — E-MAIL: jake.allward@stantec.com — Profile #: 348183 QM

INVOICE TO: — QUOTE #: 20470041S — P.O. #:

Section 3

Preservative: — / — / NaS_2O_3 / NaS_2O_3 / H_2SO_4

Analysis*

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	BOD	Nitrate/Nitrite	FC	TC (count 1x10^x)	TKN/Ammonia/TP						REMARKS/LOC ID
1AE	SW8	6/17/20	1205	Water	5	Grab	1	1	1	1	1						
2AE	SW9		1155				1	1	1	1	1						
3AE	SW10		1141				1	1	1	1	1						
4AE	SW11		1235				1	1	1	1	1						
5AE	SW12		1301				1	1	1	1	1						
6AE	SW13		1323				1	1	1	1	1						
7AE	SW14		1405				1	1	1	1	1						
8AE	SW15		1351				1	1	1	1	1						
9AE	SW16		1337				1	1	1	1	1						
10AE	SW17		1448				1	1	1	1	1						

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

Section 5

Relinquished By:	Date	Time	Received By:
(1)	6/17/20		
(2)			
(3)			
(4)	6/17/20	1702	For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: D 7.4 1523 2) 5.0 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

1202734

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Instructions: Sections
Omissions may delay the onset of analysis.

Page 2 of 2

Section 1

CLIENT:	
CONTACT:	PHONE #:
PROJECT NAME:	PROJECT/ PWSID/ PERMIT#:
REPORTS TO:	E-MAIL: Profile #:
INVOICE TO:	QUOTE #: P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incre-mental)	Analysis*										REMARKS/LOC ID
							COD	Nitrate Nitrite	FC	FC (Quanti-Tray)	FC/Enterococci	TP					
11AE	SW18	6/17/20	1505	Water	5	Grab	1	1	1	1	1						
12AE	DUP	↓	1452	↓	↓	↓	1	1	1	1	1						
13AE	Eff	↓	1519	↓	↓	↓	1	1	1	1	1						

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

Section 5

	Date	Time	
Relinquished By: (1) Dusti Badger	6-17-20	1702	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 6/17/20	Time 1702	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: ID 7.4 023
2) 5.0 D60
or Ambient [ ]

Chain of Custody Seal: (Circle)
INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [ ] Commerical Delivery [ ]

e-Sample Receipt Form

SGS Workorder #: **1202734**

1 2 0 2 7 3 4

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 @ 7.4 °C Therm. ID: D23
	Yes	Cooler ID: 2 @ 5.0 °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
1202734001-A	Na2S2O3 for Chlorine Redu	OK
1202734001-B	Na2S2O3 for Chlorine Redu	OK
1202734001-C	No Preservative Required	OK
1202734001-D	H2SO4 to pH < 2	OK
1202734001-E	No Preservative Required	OK
1202734002-A	Na2S2O3 for Chlorine Redu	OK
1202734002-B	Na2S2O3 for Chlorine Redu	OK
1202734002-C	No Preservative Required	OK
1202734002-D	H2SO4 to pH < 2	OK
1202734002-E	No Preservative Required	OK
1202734003-A	Na2S2O3 for Chlorine Redu	OK
1202734003-B	Na2S2O3 for Chlorine Redu	OK
1202734003-C	No Preservative Required	OK
1202734003-D	H2SO4 to pH < 2	OK
1202734003-E	No Preservative Required	OK
1202734004-A	Na2S2O3 for Chlorine Redu	OK
1202734004-B	Na2S2O3 for Chlorine Redu	OK
1202734004-C	No Preservative Required	OK
1202734004-D	H2SO4 to pH < 2	OK
1202734004-E	No Preservative Required	OK
1202734005-A	Na2S2O3 for Chlorine Redu	OK
1202734005-B	Na2S2O3 for Chlorine Redu	OK
1202734005-C	No Preservative Required	OK
1202734005-D	H2SO4 to pH < 2	OK
1202734005-E	No Preservative Required	OK
1202734006-A	Na2S2O3 for Chlorine Redu	OK
1202734006-B	Na2S2O3 for Chlorine Redu	OK
1202734006-C	No Preservative Required	OK
1202734006-D	H2SO4 to pH < 2	OK
1202734006-E	No Preservative Required	OK
1202734007-A	Na2S2O3 for Chlorine Redu	OK
1202734007-B	Na2S2O3 for Chlorine Redu	OK
1202734007-C	No Preservative Required	OK
1202734007-D	H2SO4 to pH < 2	OK
1202734007-E	No Preservative Required	OK
1202734008-A	Na2S2O3 for Chlorine Redu	OK
1202734008-B	Na2S2O3 for Chlorine Redu	OK
1202734008-C	No Preservative Required	OK
1202734008-D	H2SO4 to pH < 2	OK
1202734008-E	No Preservative Required	OK
1202734009-A	Na2S2O3 for Chlorine Redu	OK
1202734009-B	Na2S2O3 for Chlorine Redu	OK
1202734009-C	No Preservative Required	OK
1202734009-D	H2SO4 to pH < 2	OK
1202734009-E	No Preservative Required	OK
1202734010-A	Na2S2O3 for Chlorine Redu	OK
1202734010-B	Na2S2O3 for Chlorine Redu	OK
1202734010-C	No Preservative Required	OK
1202734010-D	H2SO4 to pH < 2	OK
1202734010-E	No Preservative Required	OK
1202734011-A	Na2S2O3 for Chlorine Redu	OK
1202734011-B	Na2S2O3 for Chlorine Redu	OK
1202734011-C	No Preservative Required	OK
1202734011-D	H2SO4 to pH < 2	OK
1202734011-E	No Preservative Required	OK
1202734012-A	Na2S2O3 for Chlorine Redu	OK
1202734012-B	Na2S2O3 for Chlorine Redu	OK
1202734012-C	No Preservative Required	OK
1202734012-D	H2SO4 to pH < 2	OK
1202734012-E	No Preservative Required	OK
1202734013-A	Na2S2O3 for Chlorine Redu	OK
1202734013-B	Na2S2O3 for Chlorine Redu	OK
1202734013-C	No Preservative Required	OK
1202734013-D	H2SO4 to pH < 2	OK
1202734013-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.

Laboratory Report of Analysis

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

Report Number: **1202855**

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: **1202855**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1202659001MS (1565652) MS

4500NO3-F - Nitrate/Nitrite - MS recovery for Total Nitrite / Nitrate is outside of QC criteria. Refer to LCS for accuracy requirements.

1202659001MSD (1565653) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for Total Nitrite / Nitrate is outside of QC criteria. Refer to LCS for accuracy requirements.

POS for HBN 1808012 [BTF/18198 (1565195) POS

9222D- Fecal coliform-Sample was read-out 20 minutes later after the full read-out time.

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

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Laboratory Qualifiers

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

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

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

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW10	1202855001	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
MW15	1202855002	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
B1	1202855003	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
MW2	1202855004	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
B4	1202855005	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
MW6	1202855006	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
B3	1202855007	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
MW17	1202855008	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)
MW8	1202855009	06/23/2020	06/23/2020	Water (Surface, Eff., Ground)

Method	Method Description
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Flow Injection Analysis
SM23 4500-N D	TKN by Phenate (W)

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Detectable Results Summary

Client Sample ID: **MW10**
Lab Sample ID: 1202855001
Waters Department

Parameter	Result	Units
Ammonia-N	0.0605J	mg/L
Nitrate-N	0.143J	mg/L
Total Kjeldahl Nitrogen	0.383J	mg/L

Client Sample ID: **MW15**
Lab Sample ID: 1202855002
Waters Department

Parameter	Result	Units
Ammonia-N	0.208	mg/L
Total Kjeldahl Nitrogen	2.75	mg/L

Client Sample ID: **B1**
Lab Sample ID: 1202855003
Waters Department

Parameter	Result	Units
Ammonia-N	0.280	mg/L

Client Sample ID: **MW2**
Lab Sample ID: 1202855004
Waters Department

Parameter	Result	Units
Ammonia-N	0.120	mg/L
Total Kjeldahl Nitrogen	0.690J	mg/L

Client Sample ID: **B4**
Lab Sample ID: 1202855005
Waters Department

Parameter	Result	Units
Ammonia-N	0.0361J	mg/L
Nitrate-N	1.46	mg/L

Client Sample ID: **MW6**
Lab Sample ID: 1202855006
Waters Department

Parameter	Result	Units
Ammonia-N	0.0961J	mg/L

Client Sample ID: **B3**
Lab Sample ID: 1202855007
Waters Department

Parameter	Result	Units
Ammonia-N	0.362	mg/L
Total Kjeldahl Nitrogen	0.637J	mg/L

Client Sample ID: **MW17**
Lab Sample ID: 1202855008
Waters Department

Parameter	Result	Units
Ammonia-N	4.57	mg/L
Total Kjeldahl Nitrogen	89.5	mg/L

Client Sample ID: **MW8**
Lab Sample ID: 1202855009
Waters Department

Parameter	Result	Units
Ammonia-N	0.244	mg/L
Nitrite-N	0.0560J	mg/L
Total Kjeldahl Nitrogen	5.31	mg/L

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

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855001
Lab Project ID: 1202855

Collection Date: 06/23/20 11:00
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855001-A

Results of **MW10**

Client Sample ID: **MW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855001
Lab Project ID: 1202855

Collection Date: 06/23/20 11:00
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0605	J	0.100	0.0310	mg/L	1		07/01/20 14:09

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:09
Container ID: 1202855001-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.143	J	0.200	0.0500	mg/L	2		06/24/20 12:37
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:37

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:37
Container ID: 1202855001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.383	J	1.00	0.310	mg/L	1		06/30/20 11:09

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:09
Container ID: 1202855001-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855002
Lab Project ID: 1202855

Collection Date: 06/23/20 11:16
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	90.9	U	90.9	90.9	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855002-A

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Results of **MW15**

Client Sample ID: **MW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855002
Lab Project ID: 1202855

Collection Date: 06/23/20 11:16
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.208		0.100	0.0310	mg/L	1		07/01/20 14:11

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:11
Container ID: 1202855002-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:42
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:42

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:42
Container ID: 1202855002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.75		1.00	0.310	mg/L	1		06/30/20 11:11

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:11
Container ID: 1202855002-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855003
Lab Project ID: 1202855

Collection Date: 06/23/20 11:43
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855003-A

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855003
Lab Project ID: 1202855

Collection Date: 06/23/20 11:43
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.280		0.100	0.0310	mg/L	1		07/01/20 14:12

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:12
Container ID: 1202855003-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:44
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:44

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:44
Container ID: 1202855003-B

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		06/30/20 11:15

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:15
Container ID: 1202855003-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW2**

Client Sample ID: **MW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855004
Lab Project ID: 1202855

Collection Date: 06/23/20 11:54
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855004-A

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Results of **MW2**

Client Sample ID: **MW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855004
Lab Project ID: 1202855

Collection Date: 06/23/20 11:54
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.120		0.100	0.0310	mg/L	1		07/01/20 14:14

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:14
Container ID: 1202855004-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:46
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:46

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:46
Container ID: 1202855004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.690	J	1.00	0.310	mg/L	1		06/30/20 11:16

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:16
Container ID: 1202855004-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855005
Lab Project ID: 1202855

Collection Date: 06/23/20 12:49
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855005-A

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855005
Lab Project ID: 1202855

Collection Date: 06/23/20 12:49
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0361	J	0.100	0.0310	mg/L	1		07/01/20 14:19

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:19
Container ID: 1202855005-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	1.46		0.200	0.0500	mg/L	2		06/24/20 12:47
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:47

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:47
Container ID: 1202855005-B

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		06/30/20 11:17

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:17
Container ID: 1202855005-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855006
Lab Project ID: 1202855

Collection Date: 06/23/20 13:05
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855006-A

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Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855006
Lab Project ID: 1202855

Collection Date: 06/23/20 13:05
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0961	J	0.100	0.0310	mg/L	1		07/01/20 14:21

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:21
Container ID: 1202855006-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:49
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:49

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:49
Container ID: 1202855006-B

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		06/30/20 11:19

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:19
Container ID: 1202855006-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855007
Lab Project ID: 1202855

Collection Date: 06/23/20 13:20
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855007-A

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855007
Lab Project ID: 1202855

Collection Date: 06/23/20 13:20
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.362		0.100	0.0310	mg/L	1		07/01/20 14:22

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:22
Container ID: 1202855007-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:51
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:51

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:51
Container ID: 1202855007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.637	J	1.00	0.310	mg/L	1		06/30/20 11:20

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:20
Container ID: 1202855007-C

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **MW17**

Client Sample ID: **MW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855008
Lab Project ID: 1202855

Collection Date: 06/23/20 14:18
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	90.9	U	90.9	90.9	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855008-A

Results of **MW17**

Client Sample ID: **MW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855008
Lab Project ID: 1202855

Collection Date: 06/23/20 14:18
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	4.57		2.50	0.775	mg/L	1		07/01/20 14:24

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:24
Container ID: 1202855008-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 0.24 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100 U		0.200	0.0500	mg/L	2		06/24/20 12:52
Nitrite-N	0.100 U		0.200	0.0500	mg/L	2		06/24/20 12:52

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:52
Container ID: 1202855008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	89.5		20.0	6.20	mg/L	20		06/30/20 12:51

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 12:51
Container ID: 1202855008-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Results of **MW8**

Client Sample ID: **MW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855009
Lab Project ID: 1202855

Collection Date: 06/23/20 14:32
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	25.0	U	25.0	25.0	col/100mL	1		06/23/20 18:11

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/23/20 18:11
Container ID: 1202855009-A

Results of **MW8**

Client Sample ID: **MW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202855009
Lab Project ID: 1202855

Collection Date: 06/23/20 14:32
Received Date: 06/23/20 16:28
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.244		0.100	0.0310	mg/L	1		07/01/20 14:26

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:26
Container ID: 1202855009-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 12:59
Nitrite-N	0.0560	J	0.200	0.0500	mg/L	2		06/24/20 12:59

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 12:59
Container ID: 1202855009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	5.31		1.00	0.310	mg/L	1		06/30/20 11:26

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:26
Container ID: 1202855009-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:26:29AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1808012 [BTF/18198]
Blank Lab ID: 1565204

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18198
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 6/23/2020 6:11:09PM

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Method Blank

Blank ID: MB for HBN 1808119 (WFI/2878) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1565697

QC for Samples:
1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0510J	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0510J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 12:32:00PM

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Method Blank

Blank ID: MB for HBN 1808119 (WFI/2878) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1565699

QC for Samples:
1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

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: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 1:19:14PM

Method Blank

Blank ID: MB for HBN 1808119 (WFI/2878)
Blank Lab ID: 1565701

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

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: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 2:04:45PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WFI2878]
Blank Spike Lab ID: 1565696
Date Analyzed: 06/24/2020 12:30

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.50	100	(70-130)
Nitrite-N	2.5	2.44	98	(90-110)
Total Nitrate/Nitrite-N	5	4.94	99	(90-110)

Batch Information

Analytical Batch: **WFI2878**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EWW**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WFI2878]
Blank Spike Lab ID: 1565698
Date Analyzed: 06/24/2020 13:17

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.59	104	(70-130)
Nitrite-N	2.5	2.53	101	(90-110)
Total Nitrate/Nitrite-N	5	5.12	102	(90-110)

Batch Information

Analytical Batch: **WFI2878**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EWW**

Print Date: 07/06/2020 11:26:39AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WFI2878]
Blank Spike Lab ID: 1565700
Date Analyzed: 06/24/2020 14:02

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.55	102	(70-130)
Nitrite-N	2.5	2.47	99	(90-110)
Total Nitrate/Nitrite-N	5	5.03	101	(90-110)

Batch Information

Analytical Batch: **WFI2878**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EWW**

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Matrix Spike Summary

Original Sample ID: 1202659001
MS Sample ID: 1565652 MS
MSD Sample ID: 1565653 MSD

Analysis Date: 06/24/2020 13:22
Analysis Date: 06/24/2020 13:24
Analysis Date: 06/24/2020 13:26
Matrix: Drinking Water

QC for Samples: 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.100U	5.00	6.05	121 *	5.00	6.05	121 *	90-110	0.09	(< 25)

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 1:24:30PM

Print Date: 07/06/2020 11:26:40AM

Matrix Spike Summary

Original Sample ID: 1202855001
MS Sample ID: 1565656 MS
MSD Sample ID: 1565657 MSD

Analysis Date: 06/24/2020 12:37
Analysis Date: 06/24/2020 12:39
Analysis Date: 06/24/2020 12:40
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.143J	2.50	2.74	104	2.50	2.81	107	70-130	2.80	(< 25)
Nitrite-N	0.100U	2.50	2.65	106	2.50	2.72	109	90-110	2.70	(< 25)

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 12:39:00PM

Print Date: 07/06/2020 11:26:40AM

Method Blank

Blank ID: MB for HBN 1808311 [WXX/13330]
Blank Lab ID: 1566652

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007

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: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 10:43:43AM

Prep Batch: WXX13330
Prep Method: METHOD
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WXX13330]
Blank Spike Lab ID: 1566653
Date Analyzed: 06/30/2020 10:45

Spike Duplicate ID: LCSD for HBN 1202855 [WXX13330]
Spike Duplicate Lab ID: 1566654
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007

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	4.29	107	4	4.00	100	(75-125)	7.00	(< 25)

Batch Information

Analytical Batch: **WDA4807**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13330**
Prep Method: **METHOD**
Prep Date/Time: **06/29/2020 13:46**
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: 1202734001
MS Sample ID: 1566655 MS
MSD Sample ID: 1566656 MSD

Analysis Date: 06/30/2020 10:47
Analysis Date: 06/30/2020 10:48
Analysis Date: 06/30/2020 10:50
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007

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	0.380J	4.00	4.08	92	4.00	4.34	99	75-125	6.40	(< 25)

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 10:48:58AM

Prep Batch: WXX13330
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 07/06/2020 11:26:45AM

Method Blank

Blank ID: MB for HBN 1808312 [WXX/13331]
Blank Lab ID: 1566657

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202855008, 1202855009

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: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 11:21:36AM

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WXX13331]
Blank Spike Lab ID: 1566658
Date Analyzed: 06/30/2020 11:22

Spike Duplicate ID: LCSD for HBN 1202855 [WXX13331]
Spike Duplicate Lab ID: 1566659
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855008, 1202855009

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	3.50	87	4	3.50	87	(75-125)	0.03	(< 25)

Batch Information

Analytical Batch: **WDA4807**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13331**
Prep Method: **METHOD**
Prep Date/Time: **06/29/2020 13:46**
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: 1202956001
MS Sample ID: 1566660 MS
MSD Sample ID: 1566661 MSD

Analysis Date: 06/30/2020 11:41
Analysis Date: 06/30/2020 11:42
Analysis Date: 06/30/2020 11:46
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855008, 1202855009

Results by **SM23 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	4.17	104	4.00	4.38	110	75-125	4.90	(< 25)

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 11:42:29AM

Prep Batch: WXX13331
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 07/06/2020 11:26:50AM

Method Blank

Blank ID: MB for HBN 1808450 [WXX/13338]
Blank Lab ID: 1567218

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 1:59:18PM

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 7/1/2020 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202855 [WXX13338]
Blank Spike Lab ID: 1567219
Date Analyzed: 07/01/2020 14:00

Spike Duplicate ID: LCSD for HBN 1202855 [WXX13338]
Spike Duplicate Lab ID: 1567220
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

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	0.996	100	1	0.998	100	(75-125)	0.27	(< 25)

Batch Information

Analytical Batch: **WDA4810**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13338**
Prep Method: **METHOD**
Prep Date/Time: **07/01/2020 13:00**
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: 1202915001
MS Sample ID: 1567221 MS
MSD Sample ID: 1567222 MSD

Analysis Date: 07/01/2020 14:31
Analysis Date: 07/01/2020 14:32
Analysis Date: 07/01/2020 14:34
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202855001, 1202855002, 1202855003, 1202855004, 1202855005, 1202855006, 1202855007, 1202855008, 1202855009

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	0.190	1.00	1.15	96	1.00	1.12	93	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 2:32:47PM

Prep Batch: WXX13338
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 7/1/2020 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 07/06/2020 11:26:55AM

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CHAIN OF CUSTODY RECORD

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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: Jake Alward — PHONE #: 385-5202

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

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

INVOICE TO: — QUOTE #: — P.O. #: 2047000415

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*: FC	Nitrate/Nitrite	TDN (Ammonia)	REMARKS/LOC ID
1 A-C	MW10	6/23/20	1100	Water	3	G	1	1	1	1202855
2 A-C	MW15		1116				1	1	1	
3 A-C	B1		1143				1	1	1	
4 A-C	MW2		1154				1	1	1	
5 A-C	B4		1249				1	1	1	
6 A-C	MW6		1305				1	1	1	
7 A-C	B3		1330				1	1	1	
8 A-C	MW17		1418				1	1	1	
9 A-C	MW8		1432				1	1	1	

Section 3 — Preservative

Analysis*: FC; Nitrate/Nitrite; TDN (Ammonia)

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

Section 5

Relinquished By:	Date	Time	Received By:
(1)	6/23/20		
(2)			
(3)			
(4)	6/23/20	1628	

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

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Profile #348183 JM

Temp Blank °C: 1.4°HD51 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: Hand Delivery [X] Commerical Delivery [ ]

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

F083-Blank_COC_20181228

e-Sample Receipt Form

SGS Workorder #: **1202855**

1 2 0 2 8 5 5

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		N/A — 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 @ 1.4 °C Therm. ID: D51
		Cooler ID: @ °C Therm. ID:
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
	N/A	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1202855001-A	No Preservative Required	OK			
1202855001-B	No Preservative Required	OK			
1202855001-C	H2SO4 to pH < 2	OK			
1202855002-A	No Preservative Required	OK			
1202855002-B	No Preservative Required	OK			
1202855002-C	H2SO4 to pH < 2	OK			
1202855003-A	No Preservative Required	OK			
1202855003-B	No Preservative Required	OK			
1202855003-C	H2SO4 to pH < 2	OK			
1202855004-A	No Preservative Required	OK			
1202855004-B	No Preservative Required	OK			
1202855004-C	H2SO4 to pH < 2	OK			
1202855005-A	No Preservative Required	OK			
1202855005-B	No Preservative Required	OK			
1202855005-C	H2SO4 to pH < 2	OK			
1202855006-A	No Preservative Required	OK			
1202855006-B	No Preservative Required	OK			
1202855006-C	H2SO4 to pH < 2	OK			
1202855007-A	No Preservative Required	OK			
1202855007-B	No Preservative Required	OK			
1202855007-C	H2SO4 to pH < 2	OK			
1202855008-A	No Preservative Required	OK			
1202855008-B	No Preservative Required	OK			
1202855008-C	H2SO4 to pH < 2	OK			
1202855009-A	No Preservative Required	OK			
1202855009-B	No Preservative Required	OK			
1202855009-C	H2SO4 to pH < 2	OK			

Container Condition Glossary

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

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

Laboratory Report of Analysis

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

Report Number: **1202915**

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: **1202915**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1209374003MS (1565660) MS

4500NO3-F - Nitrate/Nitrite - MS recovery for Total Nitrite / Nitrate is outside of QC criteria. Refer to LCS for accuracy requirements.

1209374003MSD (1565661) MSD

4500NO3-F - Nitrate/Nitrite - MSD recovery for Total Nitrite / Nitrate 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.

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.

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

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
B11	1202915001	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
MW16	1202915002	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
MW12	1202915003	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
MW13	1202915004	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
Shaw	1202915005	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
MW20	1202915006	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
Dup2	1202915007	06/24/2020	06/24/2020	Water (Surface, Eff., Ground)
MW14a	1202915008	06/24/2020	06/24/2020	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)
SM21 4500NO3-F	Flow Injection 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: **B11**
Lab Sample ID: 1202915001
Waters Department

Parameter	Result	Units
Ammonia-N	0.190	mg/L

Client Sample ID: **MW16**
Lab Sample ID: 1202915002
Waters Department

Parameter	Result	Units
Ammonia-N	0.172	mg/L
Nitrate-N	0.0502J	mg/L
Total Kjeldahl Nitrogen	1.70	mg/L

Client Sample ID: **MW12**
Lab Sample ID: 1202915003
Waters Department

Parameter	Result	Units
Ammonia-N	0.110	mg/L

Client Sample ID: **MW13**
Lab Sample ID: 1202915004
Waters Department

Parameter	Result	Units
Ammonia-N	0.186	mg/L
Total Kjeldahl Nitrogen	0.343J	mg/L

Client Sample ID: **Shaw**
Lab Sample ID: 1202915005
Microbiology Laboratory

Parameter	Result	Units
E. Coli	4	MPN/100mL
Fecal Coliform	18	col/100mL
Total Coliform	248	MPN/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.0486J	mg/L
Total Kjeldahl Nitrogen	0.400J	mg/L
Total Phosphorus	0.107	mg/L

Client Sample ID: **MW20**
Lab Sample ID: 1202915006
Waters Department

Parameter	Result	Units
Ammonia-N	0.0681J	mg/L
Nitrate-N	0.605	mg/L
Nitrite-N	0.0756J	mg/L
Total Kjeldahl Nitrogen	0.388J	mg/L

Client Sample ID: **Dup2**
Lab Sample ID: 1202915007
Microbiology Laboratory

Parameter	Result	Units
Fecal Coliform	100	col/100mL

Waters Department

Parameter	Result	Units
Ammonia-N	0.0644J	mg/L
Nitrate-N	0.583	mg/L
Nitrite-N	0.0652J	mg/L

Client Sample ID: **MW14a**
Lab Sample ID: 1202915008
Waters Department

Parameter	Result	Units
Ammonia-N	0.103	mg/L
Nitrate-N	0.194J	mg/L

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Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915001
Lab Project ID: 1202915

Collection Date: 06/24/20 10:45
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915001-A

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915001
Lab Project ID: 1202915

Collection Date: 06/24/20 10:45
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.190		0.100	0.0310	mg/L	1		07/01/20 14:31

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:31
Container ID: 1202915001-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:29
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:29

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:29
Container ID: 1202915001-B

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		06/30/20 11:30

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:30
Container ID: 1202915001-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW16**

Client Sample ID: **MW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915002
Lab Project ID: 1202915

Collection Date: 06/24/20 10:50
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915002-A

Results of **MW16**

Client Sample ID: **MW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915002
Lab Project ID: 1202915

Collection Date: 06/24/20 10:50
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.172		0.100	0.0310	mg/L	1		07/01/20 14:39

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:39
Container ID: 1202915002-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0502	J	0.200	0.0500	mg/L	2		06/24/20 17:34
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:34

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:34
Container ID: 1202915002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.70		1.00	0.310	mg/L	1		06/30/20 11:32

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:32
Container ID: 1202915002-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:27:42AM

J flagging is activated

Results of **MW12**

Client Sample ID: **MW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915003
Lab Project ID: 1202915

Collection Date: 06/24/20 11:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915003-A

Results of **MW12**

Client Sample ID: **MW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915003
Lab Project ID: 1202915

Collection Date: 06/24/20 11:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.110		0.100	0.0310	mg/L	1		07/01/20 14:41

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:41
Container ID: 1202915003-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:36
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:36

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:36
Container ID: 1202915003-B

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		06/30/20 11:33

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:33
Container ID: 1202915003-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:27:42AM

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Results of **MW13**

Client Sample ID: **MW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915004
Lab Project ID: 1202915

Collection Date: 06/24/20 11:40
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.18	U	1.18	1.18	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915004-A

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Results of **MW13**

Client Sample ID: **MW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915004
Lab Project ID: 1202915

Collection Date: 06/24/20 11:40
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.186		0.100	0.0310	mg/L	1		07/01/20 14:42

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:42
Container ID: 1202915004-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:37
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:37

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:37
Container ID: 1202915004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.343	J	1.00	0.310	mg/L	1		06/30/20 11:34

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:34
Container ID: 1202915004-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:27:42AM

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Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915005
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
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		06/24/20 23:40

Batch Information

Analytical Batch: BOD6638
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 06/24/20 23:40
Container ID: 1202915005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	18		1.67	1.67	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	4		1	1	MPN/100m	1		06/24/20 19:48
Total Coliform	248		1	1	MPN/100m	1		06/24/20 19:48

Batch Information

Analytical Batch: BTF18201
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 06/24/20 19:48
Container ID: 1202915005-D

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915005
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0486	J	0.100	0.0310	mg/L	1		07/01/20 14:44

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:44
Container ID: 1202915005-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:39
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:39

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:39
Container ID: 1202915005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.107		0.0400	0.0120	mg/L	1		06/29/20 16:27

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Analyst: EWW
Analytical Date/Time: 06/29/20 16:27
Container ID: 1202915005-C

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 06/29/20 12:31
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	0.400	J	1.00	0.310	mg/L	1		06/30/20 11:35

Print Date: 07/06/2020 11:27:42AM

J flagging is activated

Results of **Shaw**

Client Sample ID: **Shaw**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915005
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:35
Container ID: 1202915005-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915006
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915006-A

Results of **MW20**

Client Sample ID: **MW20**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915006
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0681	J	0.100	0.0310	mg/L	1		07/01/20 14:46

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 14:46
Container ID: 1202915006-C

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 07/01/20 13:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.605		0.200	0.0500	mg/L	2		06/24/20 17:41
Nitrite-N	0.0756	J	0.200	0.0500	mg/L	2		06/24/20 17:41

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:41
Container ID: 1202915006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.388	J	1.00	0.310	mg/L	1		06/30/20 11:37

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:37
Container ID: 1202915006-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:27:42AM

J flagging is activated

Results of **Dup2**

Client Sample ID: **Dup2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915007
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	100		16.7	16.7	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915007-A

Results of **Dup2**

Client Sample ID: **Dup2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915007
Lab Project ID: 1202915

Collection Date: 06/24/20 13:20
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0644	J	0.100	0.0310	mg/L	1		07/01/20 15:41

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 15:41
Container ID: 1202915007-C

Prep Batch: WXX13339
Prep Method: METHOD
Prep Date/Time: 07/01/20 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.583		0.200	0.0500	mg/L	2		06/24/20 17:43
Nitrite-N	0.0652	J	0.200	0.0500	mg/L	2		06/24/20 17:43

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:43
Container ID: 1202915007-B

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		06/30/20 11:38

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:38
Container ID: 1202915007-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **MW14a**

Client Sample ID: **MW14a**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915008
Lab Project ID: 1202915

Collection Date: 06/24/20 13:00
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		06/24/20 18:04

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Analyst: A.L
Analytical Date/Time: 06/24/20 18:04
Container ID: 1202915008-A

Results of **MW14a**

Client Sample ID: **MW14a**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1202915008
Lab Project ID: 1202915

Collection Date: 06/24/20 13:00
Received Date: 06/24/20 16:09
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.103		0.100	0.0310	mg/L	1		07/01/20 15:43

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Analyst: EWW
Analytical Date/Time: 07/01/20 15:43
Container ID: 1202915008-C

Prep Batch: WXX13339
Prep Method: METHOD
Prep Date/Time: 07/01/20 15:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.194	J	0.200	0.0500	mg/L	2		06/24/20 17:44
Nitrite-N	0.100	U	0.200	0.0500	mg/L	2		06/24/20 17:44

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Analyst: EWW
Analytical Date/Time: 06/24/20 17:44
Container ID: 1202915008-B

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		06/30/20 11:39

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Analyst: EWW
Analytical Date/Time: 06/30/20 11:39
Container ID: 1202915008-C

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 06/29/20 13:46
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 07/06/2020 11:27:42AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1808070 [BOD/6638]
Blank Lab ID: 1565488

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915005

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: BOD6638
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 6/24/2020 4:26:30PM

Print Date: 07/06/2020 11:27:46AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [BOD6638]
Blank Spike Lab ID: 1565489
Date Analyzed: 06/24/2020 16:26

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915005

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	217	110	(84.6-115.4

Batch Information

Analytical Batch: **BOD6638**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 07/06/2020 11:27:48AM

Method Blank

Blank ID: MB for HBN 1808052 [BTF/18201]
Blank Lab ID: 1565387

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915005

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: BTF18201
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 6/24/2020 2:08:00PM

Print Date: 07/06/2020 11:27:50AM

Method Blank

Blank ID: MB for HBN 1808071 [BTF/18203]
Blank Lab ID: 1565522

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF18203
Analytical Method: SM21 9222D
Instrument:
Analyst: A.L
Analytical Date/Time: 6/24/2020 6:04:02PM

Print Date: 07/06/2020 11:27:54AM

Method Blank

Blank ID: MB for HBN 1808119 (WFI/2878)
Blank Lab ID: 1565703

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

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: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 2:50:14PM

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Method Blank

Blank ID: MB for HBN 1808119 (WFI/2878) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1565705

QC for Samples:
1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

Results by **SM21 4500NO3-F**

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: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 5:25:43PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WFI2878]
Blank Spike Lab ID: 1565702
Date Analyzed: 06/24/2020 14:48

Matrix: Water (Surface, Eff., Ground)

QC for Samples:

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.45	98	(70-130)
Nitrite-N	2.5	2.45	98	(90-110)
Total Nitrate/Nitrite-N	5	4.89	98	(90-110)

Batch Information

Analytical Batch: **WFI2878**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EWW**

Print Date: 07/06/2020 11:28:00AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WFI2878]
Blank Spike Lab ID: 1565704
Date Analyzed: 06/24/2020 17:23

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.55	102	(70-130)
Nitrite-N	2.5	2.40	96	(90-110)
Total Nitrate/Nitrite-N	5	4.94	99	(90-110)

Batch Information

Analytical Batch: **WFI2878**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **EWW**

Print Date: 07/06/2020 11:28:00AM

Matrix Spike Summary

Original Sample ID: 1202745001
MS Sample ID: 1565654 MS
MSD Sample ID: 1565655 MSD

Analysis Date: 06/24/2020 14:08
Analysis Date: 06/24/2020 14:09
Analysis Date: 06/24/2020 14:11
Matrix: Drinking Water

QC for Samples:

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	4.65	5.00	9.99	107	5.00	9.91	105	90-110	0.80	(< 25)

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 2:09:59PM

Print Date: 07/06/2020 11:28:02AM

Matrix Spike Summary

Original Sample ID: 1202915001
MS Sample ID: 1565658 MS
MSD Sample ID: 1565659 MSD

Analysis Date: 06/24/2020 17:29
Analysis Date: 06/24/2020 17:30
Analysis Date: 06/24/2020 17:32
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	2.50	2.59	104	2.50	2.52	101	70-130	3.10	(< 25)
Nitrite-N	0.100U	2.50	2.56	102	2.50	2.71	108	90-110	5.70	(< 25)

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 5:30:57PM

Print Date: 07/06/2020 11:28:02AM

Matrix Spike Summary

Original Sample ID: 1209374003
MS Sample ID: 1565660 MS
MSD Sample ID: 1565661 MSD

QC for Samples: 1202915001

Analysis Date: 06/24/2020 14:53
Analysis Date: 06/24/2020 14:55
Analysis Date: 06/24/2020 14:57
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.100U	5.00	5.95	119 *	5.00	5.94	119 *	90-110	0.23	(< 25)

Batch Information

Analytical Batch: WFI2878
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: EWW
Analytical Date/Time: 6/24/2020 2:55:30PM

Print Date: 07/06/2020 11:28:02AM

Method Blank

Blank ID: MB for HBN 1808279 [WXX/13329]
Blank Lab ID: 1566504

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915005

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: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:09:35PM

Prep Batch: WXX13329
Prep Method: SM21 4500P-B,E
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WXX13329]
Blank Spike Lab ID: 1566505
Date Analyzed: 06/29/2020 16:10

Spike Duplicate ID: LCSD for HBN 1202915 [WXX13329]
Spike Duplicate Lab ID: 1566506
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915005

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	0.199	100	0.2	0.194	97	(75-125)	2.50	(< 25)

Batch Information

Analytical Batch: **WDA4806**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13329**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **06/29/2020 12:31**
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: 1209374001
MS Sample ID: 1566507 MS
MSD Sample ID: 1566508 MSD

QC for Samples: 1202915005

Analysis Date: 06/29/2020 16:12
Analysis Date: 06/29/2020 16:13
Analysis Date: 06/29/2020 16:16
Matrix: Water (Surface, Eff., Ground)

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	0.0200U	0.200	.202	101	0.200	0.203	102	75-125	0.64	(< 25)

Batch Information

Analytical Batch: WDA4806
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/29/2020 4:13:26PM

Prep Batch: WXX13329
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 6/29/2020 12:31:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 07/06/2020 11:28:07AM

Method Blank

Blank ID: MB for HBN 1808312 [WXX/13331]
Blank Lab ID: 1566657

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

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: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 11:21:36AM

Prep Batch: WXX13331
Prep Method: METHOD
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WXX13331]
Blank Spike Lab ID: 1566658
Date Analyzed: 06/30/2020 11:22

Spike Duplicate ID: LCSD for HBN 1202915 [WXX13331]
Spike Duplicate Lab ID: 1566659
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

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	3.50	87	4	3.50	87	(75-125)	0.03	(< 25)

Batch Information

Analytical Batch: **WDA4807**
Analytical Method: **SM23 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13331**
Prep Method: **METHOD**
Prep Date/Time: **06/29/2020 13:46**
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: 1202956001
MS Sample ID: 1566660 MS
MSD Sample ID: 1566661 MSD

Analysis Date: 06/30/2020 11:41
Analysis Date: 06/30/2020 11:42
Analysis Date: 06/30/2020 11:46
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006, 1202915007, 1202915008

Results by **SM23 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	1.00U	4.00	4.17	104	4.00	4.38	110	75-125	4.90	(< 25)

Batch Information

Analytical Batch: WDA4807
Analytical Method: SM23 4500-N D
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 6/30/2020 11:42:29AM

Prep Batch: WXX13331
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 6/29/2020 1:46:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 07/06/2020 11:28:12AM

Method Blank

Blank ID: MB for HBN 1808450 [WXX/13338]
Blank Lab ID: 1567218

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 1:59:18PM

Prep Batch: WXX13338
Prep Method: METHOD
Prep Date/Time: 7/1/2020 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WXX13338]
Blank Spike Lab ID: 1567219
Date Analyzed: 07/01/2020 14:00

Spike Duplicate ID: LCSD for HBN 1202915 [WXX13338]
Spike Duplicate Lab ID: 1567220
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006

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	0.996	100	1	0.998	100	(75-125)	0.27	(< 25)

Batch Information

Analytical Batch: **WDA4810**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13338**
Prep Method: **METHOD**
Prep Date/Time: **07/01/2020 13:00**
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: 1202915001
MS Sample ID: 1567221 MS
MSD Sample ID: 1567222 MSD

Analysis Date: 07/01/2020 14:31
Analysis Date: 07/01/2020 14:32
Analysis Date: 07/01/2020 14:34
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915001, 1202915002, 1202915003, 1202915004, 1202915005, 1202915006

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	0.190	1.00	1.15	96	1.00	1.12	93	75-125	2.40	(< 25)

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 2:32:47PM

Prep Batch: WXX13338
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 7/1/2020 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 07/06/2020 11:28:17AM

Method Blank

Blank ID: MB for HBN 1808451 [WXX/13339]
Blank Lab ID: 1567223

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1202915007, 1202915008

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 3:36:35PM

Prep Batch: WXX13339
Prep Method: METHOD
Prep Date/Time: 7/1/2020 3:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1202915 [WXX13339]
Blank Spike Lab ID: 1567224
Date Analyzed: 07/01/2020 15:38

Spike Duplicate ID: LCSD for HBN 1202915 [WXX13339]
Spike Duplicate Lab ID: 1567225
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915007, 1202915008

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	1.21	121	1	1.21	121	(75-125)	0.57	(< 25)

Batch Information

Analytical Batch: **WDA4810**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **EWW**

Prep Batch: **WXX13339**
Prep Method: **METHOD**
Prep Date/Time: **07/01/2020 15:00**
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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200 West Potter Drive Anchorage, AK 95518
t 907.562.2343 f 907.561.5301 www.us.sgs.com

Matrix Spike Summary

Original Sample ID: 1202944006
MS Sample ID: 1567226 MS
MSD Sample ID: 1567227 MSD

Analysis Date: 07/01/2020 16:01
Analysis Date: 07/01/2020 16:03
Analysis Date: 07/01/2020 16:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1202915007, 1202915008

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	0.0561J	1.00	1.09	103	1.00	1.10	105	75-125	1.30	(< 25)

Batch Information

Analytical Batch: WDA4810
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: EWW
Analytical Date/Time: 7/1/2020 4:03:19PM

Prep Batch: WXX13339
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 7/1/2020 3:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 07/06/2020 11:28:22AM

SGS

1202915

SGS North America Inc.
CHAIN OF CUSTODY RECORD

www.us.sgs.com

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: Jake Alward — PHONE #: 343-5202

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

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

INVOICE TO: — QUOTE #: — P.O. #: 2047 00415

Section 3 — Preservative: Na2SO3, Na2SO3, —, —, H2SO4, H2SO4

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Comp Grab MI (Multi-incremental)	FC	TC (Quant) 1x Adx	Nitrate/Nitrite	BOD	TKN/Ammonia	TKN/Ammonia/TP					REMARKS/LOC ID
1AC	B11	6/24/20	1045	water	3	G	1		1		1						
2AC	MW16	↓	1050	↓	3	↓	1		1		1						
3AC	MW12	↓	1120	↓	3	↓	1		1		1						
4AC	MW13	↓	1140	↓	3	↓	1		1		1						
5AE	Shaw	↓	1320	↓	5	↓	1	1	1	1		1					
6AC	MW20	↓	1320	↓	3	↓	1		1		1						
7AC	Dup 2	↓	1320	↓	3	↓	1		1		1						
8AC	MW14a	↓	1300	↓	3	↓	1		1		1						

Section 5

Relinquished By	Date	Time	Received By
(1) [signature]	6/24/20		
(2)			
(3)			
(4)	6/24/20	1609	Received For Laboratory By: [signature] MA

Section 4 — DOD Project? Yes No

Cooler ID: ____

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions: #346183

Temp Blank °C: 5.7 D63 — or Ambient [ ]

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

Delivery Method: Hand Delivery [x] Commerical Delivery [ ]

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

F083-Blank_COC_20181228

e-Sample Receipt Form

SGS Workorder #: **1202915**

1 2 0 2 9 1 5

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 @ 5.7 °C Therm. ID: D63
		Cooler ID: @ °C Therm. ID:
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC information		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
	N/A	***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1202915001-A	Na2S2O3 for Chlorine Redu	OK			
1202915001-B	No Preservative Required	OK			
1202915001-C	H2SO4 to pH < 2	OK			
1202915002-A	Na2S2O3 for Chlorine Redu	OK			
1202915002-B	No Preservative Required	OK			
1202915002-C	H2SO4 to pH < 2	OK			
1202915003-A	Na2S2O3 for Chlorine Redu	OK			
1202915003-B	No Preservative Required	OK			
1202915003-C	H2SO4 to pH < 2	OK			
1202915004-A	Na2S2O3 for Chlorine Redu	OK			
1202915004-B	No Preservative Required	OK			
1202915004-C	H2SO4 to pH < 2	OK			
1202915005-A	Na2S2O3 for Chlorine Redu	OK			
1202915005-B	No Preservative Required	OK			
1202915005-C	H2SO4 to pH < 2	OK			
1202915005-D	Na2S2O3 for Chlorine Redu	OK			
1202915005-E	No Preservative Required	OK			
1202915006-A	Na2S2O3 for Chlorine Redu	OK			
1202915006-B	No Preservative Required	OK			
1202915006-C	H2SO4 to pH < 2	OK			
1202915007-A	Na2S2O3 for Chlorine Redu	OK			
1202915007-B	No Preservative Required	OK			
1202915007-C	H2SO4 to pH < 2	OK			
1202915008-A	Na2S2O3 for Chlorine Redu	OK			
1202915008-B	No Preservative Required	OK			
1202915008-C	H2SO4 to pH < 2	OK			

Container Condition Glossary

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

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