Laboratory Report of Analysis

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

Report Number: **1176148**

Client Project: **Wasilla WWTP Surface**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

_____

Justin Nelson Date
Project Manager
Justin.Nelson@sgs.com

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1176148**
Project Name/Site: **Wasilla WWTP Surface**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1176049001DUP (1408970) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1178293001DUP (1408988) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1175889001MS (1409200) MS

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

1176131001MS (1410417) MS

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

1175889001MSD (1409201) MSD

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

1176131001MSD (1410418) MSD

300.0 - Anions - MSD 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. 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) & UST-005 (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). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW-1	1176148001	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-2	1176148002	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-3	1176148003	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-4	1176148004	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-5	1176148005	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-6	1176148006	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-7	1176148007	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-8	1176148008	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-9	1176148009	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-10	1176148010	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-11	1176148011	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-12	1176148012	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
SW-13	1176148013	08/29/2017	08/29/2017	Water (Surface, Eff., Ground)
Duplicate 1	1176148014	08/29/2017	08/29/2017	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
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SW-1**
Lab Sample ID: 1176148001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	9.48	mg/L
	E. Coli	1733	MPN/100mL
	Fecal Coliform	1110	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.564J	mg/L
	Total Phosphorus	0.0700	mg/L
	Total Suspended Solids	19.0	mg/L

Client Sample ID: **SW-2**
Lab Sample ID: 1176148002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	12.3	mg/L
	E. Coli	46	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	1.78	mg/L
	Total Phosphorus	0.144	mg/L
	Total Suspended Solids	265	mg/L

Client Sample ID: **SW-3**
Lab Sample ID: 1176148003

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	6.06	mg/L
	E. Coli	2	MPN/100mL
	Fecal Coliform	30	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.609J	mg/L
	Total Phosphorus	0.132	mg/L
	Total Suspended Solids	195	mg/L

Client Sample ID: **SW-4**
Lab Sample ID: 1176148004

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	13.8	mg/L
	E. Coli	8	MPN/100mL
	Fecal Coliform	10	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	1.33	mg/L
	Total Phosphorus	0.0874	mg/L
	Total Suspended Solids	109	mg/L

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Detectable Results Summary

Client Sample ID: **SW-5**
Lab Sample ID: 1176148005

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	8.25	mg/L
	E. Coli	12	MPN/100mL
	Fecal Coliform	18	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	0.0328J	mg/L
	Total Kjeldahl Nitrogen	0.844J	mg/L
	Total Phosphorus	0.0603	mg/L
	Total Suspended Solids	70.3	mg/L

Client Sample ID: **SW-6**
Lab Sample ID: 1176148006

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.62	mg/L
	E. Coli	6	MPN/100mL
	Fecal Coliform	2.0	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0595J	mg/L
	Total Kjeldahl Nitrogen	2.87	mg/L
	Total Phosphorus	0.300	mg/L
	Total Suspended Solids	226	mg/L

Client Sample ID: **SW-7**
Lab Sample ID: 1176148007

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.98	mg/L
	E. Coli	7	MPN/100mL
	Fecal Coliform	5.0	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.624J	mg/L
	Total Phosphorus	0.0967	mg/L
	Total Suspended Solids	52.0	mg/L

Client Sample ID: **SW-8**
Lab Sample ID: 1176148008

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	8.37	mg/L
	E. Coli	2	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	2.78	mg/L
	Total Phosphorus	0.270	mg/L
	Total Suspended Solids	240	mg/L

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Detectable Results Summary

Client Sample ID: **SW-9**
Lab Sample ID: 1176148009

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	6.38	mg/L
	Fecal Coliform	5.0	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.802J	mg/L
	Total Phosphorus	0.163	mg/L
	Total Suspended Solids	85.5	mg/L

Client Sample ID: **SW-10**
Lab Sample ID: 1176148010

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	7.50	mg/L
	E. Coli	12	MPN/100mL
	Fecal Coliform	16	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	0.860J	mg/L
	Total Phosphorus	0.0938	mg/L
	Total Suspended Solids	72.0	mg/L

Client Sample ID: **SW-11**
Lab Sample ID: 1176148011

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	8.58	mg/L
	E. Coli	2	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	1.44	mg/L
	Total Phosphorus	0.333	mg/L
	Total Suspended Solids	173	mg/L

Client Sample ID: **SW-12**
Lab Sample ID: 1176148012

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	7.08	mg/L
	E. Coli	30	MPN/100mL
	Fecal Coliform	330	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	3.04	mg/L
	Total Phosphorus	0.439	mg/L
	Total Suspended Solids	244	mg/L

Client Sample ID: **SW-13**
Lab Sample ID: 1176148013

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.49	mg/L
	E. Coli	187	MPN/100mL
	Fecal Coliform	160	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	1.36	mg/L
	Total Phosphorus	0.190	mg/L
	Total Suspended Solids	81.3	mg/L

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Detectable Results Summary

Client Sample ID: **Duplicate 1**
Lab Sample ID: 1176148014

Microbiology Laboratory

Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	9.72	mg/L
E. Coli	18	MPN/100mL
Fecal Coliform	600	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	3.51	mg/L
Total Phosphorus	0.489	mg/L
Total Suspended Solids	240	mg/L

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148001
Lab Project ID: 1176148

Collection Date: 08/29/17 09:22
Received Date: 08/29/17 16:05
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	9.48		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1110		10.0	10.0	col/100mL	1		08/29/17 17:21

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 17:21
Container ID: 1176148001-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1733		1	1	MPN/100m	1		08/29/17 17:10
Total Coliform	2420		1	1	MPN/100m	1		08/29/17 17:10

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 08/29/17 17:10
Container ID: 1176148001-E

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148001
Lab Project ID: 1176148

Collection Date: 08/29/17 09:22
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 04:53
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 04:53
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 04:53

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 04:53
Container ID: 1176148001-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	19.0		3.33	1.03	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.564	J	1.00	0.310	mg/L	1		09/06/17 14:34

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:34
Container ID: 1176148001-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 13:36

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148001
Lab Project ID: 1176148

Collection Date: 08/29/17 09:22
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:36
Container ID: 1176148001-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.0700		0.0200	0.00620	mg/L	1		08/30/17 15:46

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:46
Container ID: 1176148001-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148002
Lab Project ID: 1176148

Collection Date: 08/29/17 09:43
Received Date: 08/29/17 16:05
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	12.3		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		10.0	10.0	col/100mL	1		08/29/17 17:21

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 17:21
Container ID: 1176148002-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	46		1	1	MPN/100m	1		08/29/17 17:10
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 17:10

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 08/29/17 17:10
Container ID: 1176148002-E

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148002
Lab Project ID: 1176148

Collection Date: 08/29/17 09:43
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 05:11
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 05:11
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 05:11

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 05:11
Container ID: 1176148002-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	265		10.0	3.10	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.78		1.00	0.310	mg/L	1		09/06/17 14:36

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:36
Container ID: 1176148002-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 13:37

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148002
Lab Project ID: 1176148

Collection Date: 08/29/17 09:43
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:37
Container ID: 1176148002-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.144		0.0200	0.00620	mg/L	1		08/30/17 15:47

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:47
Container ID: 1176148002-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148003
Lab Project ID: 1176148

Collection Date: 08/29/17 10:02
Received Date: 08/29/17 16:05
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	6.06		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	30		1.00	1.00	col/100mL	1		08/29/17 17:21

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 17:21
Container ID: 1176148003-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		08/29/17 17:10
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 17:10

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 08/29/17 17:10
Container ID: 1176148003-E

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148003
Lab Project ID: 1176148

Collection Date: 08/29/17 10:02
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 06:05
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 06:05
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 06:05

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 06:05
Container ID: 1176148003-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	195		10.0	3.10	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.609 J		1.00	0.310	mg/L	1		09/06/17 14:37

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:37
Container ID: 1176148003-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:39

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148003
Lab Project ID: 1176148

Collection Date: 08/29/17 10:02
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:39
Container ID: 1176148003-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.132		0.0200	0.00620	mg/L	1		08/30/17 15:50

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:50
Container ID: 1176148003-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148004
Lab Project ID: 1176148

Collection Date: 08/29/17 10:15
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	13.8		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		10.0	10.0	col/100mL	1		08/29/17 17:21

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 17:21
Container ID: 1176148004-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	8		1	1	MPN/100m	1		08/29/17 17:10
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 17:10

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 08/29/17 17:10
Container ID: 1176148004-E

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148004
Lab Project ID: 1176148

Collection Date: 08/29/17 10:15
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 06:23
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 06:23
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 06:23

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 06:23
Container ID: 1176148004-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	109		5.00	1.55	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.33		1.00	0.310	mg/L	1		09/06/17 14:38

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:38
Container ID: 1176148004-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:41

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148004
Lab Project ID: 1176148

Collection Date: 08/29/17 10:15
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:41
Container ID: 1176148004-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.0874		0.0200	0.00620	mg/L	1		08/30/17 15:51

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:51
Container ID: 1176148004-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148005
Lab Project ID: 1176148

Collection Date: 08/29/17 10:23
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	8.25		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	18		1.00	1.00	col/100mL	1		08/29/17 17:21

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 17:21
Container ID: 1176148005-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	12		1	1	MPN/100m	1		08/29/17 17:10
Total Coliform	2420		1	1	MPN/100m	1		08/29/17 17:10

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: DSH
Analytical Date/Time: 08/29/17 17:10
Container ID: 1176148005-E

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148005
Lab Project ID: 1176148

Collection Date: 08/29/17 10:23
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 06:41
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 06:41
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 06:41

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 06:41
Container ID: 1176148005-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	70.3		3.33	1.03	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.844	J	1.00	0.310	mg/L	1		09/06/17 14:42

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:42
Container ID: 1176148005-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0328	J	0.100	0.0310	mg/L	1		08/30/17 13:46

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148005
Lab Project ID: 1176148

Collection Date: 08/29/17 10:23
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:46
Container ID: 1176148005-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.0603		0.0200	0.00620	mg/L	1		08/30/17 15:52

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:52
Container ID: 1176148005-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148006
Lab Project ID: 1176148

Collection Date: 08/29/17 11:24
Received Date: 08/29/17 16:05
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	4.62		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	6		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148006-E

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148006
Lab Project ID: 1176148

Collection Date: 08/29/17 11:24
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 06:59
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 06:59
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 06:59

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 06:59
Container ID: 1176148006-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	226		10.0	3.10	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.87		1.00	0.310	mg/L	1		09/06/17 14:43

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:43
Container ID: 1176148006-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0595	J	0.100	0.0310	mg/L	1		08/30/17 13:47

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148006
Lab Project ID: 1176148

Collection Date: 08/29/17 11:24
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:47
Container ID: 1176148006-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.300		0.0200	0.00620	mg/L	1		08/30/17 15:53

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:53
Container ID: 1176148006-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148007
Lab Project ID: 1176148

Collection Date: 08/29/17 11:35
Received Date: 08/29/17 16:05
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	3.98		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148007-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	7		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148007-E

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148007
Lab Project ID: 1176148

Collection Date: 08/29/17 11:35
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 07:17
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 07:17
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 07:17

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 07:17
Container ID: 1176148007-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	52.0		3.33	1.03	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.624 J		1.00	0.310	mg/L	1		09/06/17 14:45

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:45
Container ID: 1176148007-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:49

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148007
Lab Project ID: 1176148

Collection Date: 08/29/17 11:35
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:49
Container ID: 1176148007-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.0967		0.0200	0.00620	mg/L	1		08/30/17 15:54

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:54
Container ID: 1176148007-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148008
Lab Project ID: 1176148

Collection Date: 08/29/17 12:20
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	8.37		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148008-E

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148008
Lab Project ID: 1176148

Collection Date: 08/29/17 12:20
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 07:35
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 07:35
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 07:35

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 07:35
Container ID: 1176148008-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	240		5.00	1.55	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.78		1.00	0.310	mg/L	1		09/06/17 14:46

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:46
Container ID: 1176148008-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 13:51

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148008
Lab Project ID: 1176148

Collection Date: 08/29/17 12:20
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:51
Container ID: 1176148008-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.270		0.0200	0.00620	mg/L	1		08/30/17 15:55

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:55
Container ID: 1176148008-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148009
Lab Project ID: 1176148

Collection Date: 08/29/17 12:04
Received Date: 08/29/17 16:05
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	6.38		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	5.0		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148009-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148009-E

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148009
Lab Project ID: 1176148

Collection Date: 08/29/17 12:04
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 07:53
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 07:53
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 07:53

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 07:53
Container ID: 1176148009-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	85.5		5.00	1.55	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148009-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.802 J		1.00	0.310	mg/L	1		09/06/17 14:47

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:47
Container ID: 1176148009-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:52

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148009
Lab Project ID: 1176148

Collection Date: 08/29/17 12:04
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:52
Container ID: 1176148009-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.163		0.0200	0.00620	mg/L	1		08/30/17 15:56

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:56
Container ID: 1176148009-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148010
Lab Project ID: 1176148

Collection Date: 08/29/17 11:54
Received Date: 08/29/17 16:05
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	7.50		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	16		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148010-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	12		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148010-E

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148010
Lab Project ID: 1176148

Collection Date: 08/29/17 11:54
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 08:10
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 08:10
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 08:10

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 08:10
Container ID: 1176148010-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	72.0		3.33	1.03	mg/L	1		08/29/17 19:18

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 19:18
Container ID: 1176148010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.860	J	1.00	0.310	mg/L	1		09/06/17 14:49

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:49
Container ID: 1176148010-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 13:54

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148010
Lab Project ID: 1176148

Collection Date: 08/29/17 11:54
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:54
Container ID: 1176148010-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.0938		0.0200	0.00620	mg/L	1		08/30/17 15:57

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:57
Container ID: 1176148010-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148011
Lab Project ID: 1176148

Collection Date: 08/29/17 13:15
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	8.58		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148011-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	2		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148011-E

Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148011
Lab Project ID: 1176148

Collection Date: 08/29/17 13:15
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 08:28
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 08:28
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 08:28

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 08:28
Container ID: 1176148011-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	173		10.0	3.10	mg/L	1		08/29/17 22:17

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 22:17
Container ID: 1176148011-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.44		1.00	0.310	mg/L	1		09/06/17 14:50

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:50
Container ID: 1176148011-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:56

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148011
Lab Project ID: 1176148

Collection Date: 08/29/17 13:15
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:56
Container ID: 1176148011-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.333		0.0200	0.00620	mg/L	1		08/30/17 15:57

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:57
Container ID: 1176148011-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148012
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
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	7.08		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	330		10.0	10.0	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148012-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	30		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148012-E

Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148012
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 08:46
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 08:46
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 08:46

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 08:46
Container ID: 1176148012-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	244		10.0	3.10	mg/L	1		08/29/17 22:17

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 22:17
Container ID: 1176148012-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	3.04		1.00	0.310	mg/L	1		09/06/17 14:51

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:51
Container ID: 1176148012-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 13:58

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148012
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:58
Container ID: 1176148012-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.439		0.0200	0.00620	mg/L	1		08/30/17 15:58

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 15:58
Container ID: 1176148012-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148013
Lab Project ID: 1176148

Collection Date: 08/29/17 13:47
Received Date: 08/29/17 16:05
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	2.49		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148013-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	160		10.0	10.0	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148013-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	187		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148013-E

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148013
Lab Project ID: 1176148

Collection Date: 08/29/17 13:47
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 11:12
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 11:12
Total Nitrate/Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/30/17 11:12

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 11:12
Container ID: 1176148013-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	81.3		3.33	1.03	mg/L	1		08/29/17 22:17

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 22:17
Container ID: 1176148013-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.36		1.00	0.310	mg/L	1		09/06/17 14:52

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:52
Container ID: 1176148013-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500 U		0.100	0.0310	mg/L	1		08/30/17 13:59

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148013
Lab Project ID: 1176148

Collection Date: 08/29/17 13:47
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 13:59
Container ID: 1176148013-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.190		0.0200	0.00620	mg/L	1		08/30/17 16:01

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 16:01
Container ID: 1176148013-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148014
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
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	9.72		2.00	2.00	mg/L	1		08/29/17 19:03

Batch Information

Analytical Batch: BOD5842
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/29/17 19:03
Container ID: 1176148014-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	600		10.0	10.0	col/100mL	1		08/29/17 18:15

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/29/17 18:15
Container ID: 1176148014-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	18		1	1	MPN/100m	1		08/29/17 18:35
Total Coliform	>2420		1	1	MPN/100m	1		08/29/17 18:35

Batch Information

Analytical Batch: BTF15940
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/29/17 18:35
Container ID: 1176148014-E

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148014
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
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	0.0620	mg/L	1		08/30/17 11:29
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 11:29
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/30/17 11:29

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/30/17 11:29
Container ID: 1176148014-D

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 08/30/17 01:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	240		10.0	3.10	mg/L	1		08/29/17 22:17

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/29/17 22:17
Container ID: 1176148014-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	3.51		1.00	0.310	mg/L	1		09/06/17 14:54

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/06/17 14:54
Container ID: 1176148014-C

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 09/05/17 18:50
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		08/30/17 14:01

Print Date: 09/07/2017 9:05:53AM

J flagging is activated

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176148014
Lab Project ID: 1176148

Collection Date: 08/29/17 13:33
Received Date: 08/29/17 16:05
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 08/30/17 14:01
Container ID: 1176148014-C

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 08/30/17 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
Total Phosphorus	0.489		0.0200	0.00620	mg/L	1		08/30/17 16:02

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 08/30/17 16:02
Container ID: 1176148014-C

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 08/30/17 12:15
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Method Blank

Blank ID: MB for HBN 1767146 [BOD/5842]
Blank Lab ID: 1408974

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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: BOD5842
Analytical Method: SM21 5210B
Instrument:
Analyst: AKD
Analytical Date/Time: 8/29/2017 7:03:00PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [BOD5842]
Blank Spike Lab ID: 1408975
Date Analyzed: 08/29/2017 19:03

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	193	98	(84.6-115.4

Batch Information

Analytical Batch: **BOD5842**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **AKD**

Print Date: 09/07/2017 9:06:01AM

Method Blank

Blank ID: MB for HBN 1767149 [BTF/15940]
Blank Lab ID: 1408981

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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: BTF15940
Analytical Method: SM21 9223B
Instrument:
Analyst: DSH
Analytical Date/Time: 8/29/2017 5:10:00PM

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Method Blank

Blank ID: MB for HBN 1767150 [BTF/15941]
Blank Lab ID: 1408983

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/29/2017 5:21:00PM

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Method Blank

Blank ID: MB for HBN 1767150 [BTF/15941]
Blank Lab ID: 1409705

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF15941
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/29/2017 6:15:00PM

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Method Blank

Blank ID: MB for HBN 1767144 [STS/5614]
Blank Lab ID: 1408967

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010

Results by **SM21 2540D**

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

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC
Analytical Date/Time: 8/29/2017 7:18:42PM

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Duplicate Sample Summary

Original Sample ID: 1176049001
Duplicate Sample ID: 1408970
QC for Samples:

Analysis Date: 08/29/2017 19:18
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	6.00	6.60	mg/L	9.50*	(< 5)

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC

Print Date: 09/07/2017 9:06:11AM

Duplicate Sample Summary

Original Sample ID: 1176122001
Duplicate Sample ID: 1408971

Analysis Date: 08/29/2017 19:18
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	553	580	mg/L	4.70	(< 5)

Batch Information

Analytical Batch: STS5614
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC

Print Date: 09/07/2017 9:06:11AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [STS5614]
Blank Spike Lab ID: 1408968
Date Analyzed: 08/29/2017 19:18

Spike Duplicate ID: LCSD for HBN 1176148 [STS5614]
Spike Duplicate Lab ID: 1408969
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	50	50.8	102	50	50.4	101	(75-125)	0.79	(< 5)

Batch Information

Analytical Batch: **STS5614**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **AYC**

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Method Blank

Blank ID: MB for HBN 1767151 [STS/5616]
Blank Lab ID: 1408985

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 2540D**

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

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC
Analytical Date/Time: 8/29/2017 10:17:13PM

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Duplicate Sample Summary

Original Sample ID: 1178293001
Duplicate Sample ID: 1408988
QC for Samples:
1176148011, 1176148012, 1176148013, 1176148014

Analysis Date: 08/29/2017 22:17
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	2.40	2.60	mg/L	8.00*	(< 5)

Batch Information

Analytical Batch: STS5616
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC

Print Date: 09/07/2017 9:06:15AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [STS5616]
Blank Spike Lab ID: 1408986
Date Analyzed: 08/29/2017 22:17

Spike Duplicate ID: LCSD for HBN 1176148 [STS5616]
Spike Duplicate Lab ID: 1408987
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	50	50.5	101	50	51.1	102	(75-125)	1.20	(< 5)

Batch Information

Analytical Batch: **STS5616**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **AYC**

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Method Blank

Blank ID: MB for HBN 1767199 [WXX/11970]
Blank Lab ID: 1409197

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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: WDA4045
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 8/30/2017 1:26:14PM

Prep Batch: WXX11970
Prep Method: METHOD
Prep Date/Time: 8/30/2017 1:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [WXX11970]
Blank Spike Lab ID: 1409198
Date Analyzed: 08/30/2017 13:27

Spike Duplicate ID: LCSD for HBN 1176148 [WXX11970]
Spike Duplicate Lab ID: 1409199
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.00	100	1	1.01	101	(75-125)	1.00	(< 25)

Batch Information

Analytical Batch: **WDA4045**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11970**
Prep Method: **METHOD**
Prep Date/Time: **08/30/2017 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: 1175889001
MS Sample ID: 1409200 MS
MSD Sample ID: 1409201 MSD

Analysis Date: 08/30/2017 14:57
Analysis Date: 08/30/2017 14:58
Analysis Date: 08/30/2017 15:00
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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	103	1.00	96.1	-660 *	1.00	97.4	-534 *	75-125	1.30	(< 25)

Batch Information

Analytical Batch: WDA4045
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 8/30/2017 2:58:55PM

Prep Batch: WXX11970
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 8/30/2017 1:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/07/2017 9:06:22AM

Method Blank

Blank ID: MB for HBN 1767202 [WXX/11971]
Blank Lab ID: 1409226

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0100U	0.0200	0.00620	mg/L

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 8/30/2017 3:38:57PM

Prep Batch: WXX11971
Prep Method: SM21 4500P-B,E
Prep Date/Time: 8/30/2017 12:15:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [WXX11971]
Blank Spike Lab ID: 1409227
Date Analyzed: 08/30/2017 15:39

Spike Duplicate ID: LCSD for HBN 1176148 [WXX11971]
Spike Duplicate Lab ID: 1409228
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.191	96	0.2	0.187	94	(85-115)	2.10	(< 25)

Batch Information

Analytical Batch: **WDA4046**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11971**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **08/30/2017 12:15**
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: 1175903001
MS Sample ID: 1409229 MS
MSD Sample ID: 1409230 MSD

Analysis Date: 08/30/2017 15:42
Analysis Date: 08/30/2017 15:43
Analysis Date: 08/30/2017 15:44
Matrix: Drinking Water

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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	0.0100U	0.200	.186	93	0.200	0.185	93	75-125	0.81	(< 25)

Batch Information

Analytical Batch: WDA4046
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 8/30/2017 3:43:48PM

Prep Batch: WXX11971
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 8/30/2017 12:15:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/07/2017 9:06:29AM

Method Blank

Blank ID: MB for HBN 1767647 [WXX/11979]
Blank Lab ID: 1410415

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0620	mg/L
Nitrite-N	0.100U	0.200	0.0620	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0620	mg/L

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: NEG
Analytical Date/Time: 8/30/2017 2:30:32AM

Prep Batch: WXX11979
Prep Method: METHOD
Prep Date/Time: 8/30/2017 1:00:00AM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [WXX11979]
Blank Spike Lab ID: 1410416
Date Analyzed: 08/30/2017 02:48

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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	5.03	101	(90-110)
Total Nitrate/Nitrite-N	10	10.1	101	(90-110)

Batch Information

Analytical Batch: **WIC5682**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **NEG**

Prep Batch: **WXX11979**
Prep Method: **METHOD**
Prep Date/Time: **08/30/2017 01:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

Print Date: 09/07/2017 9:06:33AM

Matrix Spike Summary

Original Sample ID: 1176131001
MS Sample ID: 1410417 MS
MSD Sample ID: 1410418 MSD

Analysis Date: 08/30/2017 3:06
Analysis Date: 08/30/2017 3:24
Analysis Date: 08/30/2017 3:42
Matrix: Drinking Water

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

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
Nitrite-N	0.100U	5.00	4.92	98	5.00	4.98	100	90-110	1.20	

Batch Information

Analytical Batch: WIC5682
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: NEG
Analytical Date/Time: 8/30/2017 3:24:22AM

Prep Batch: WXX11979
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/30/2017 1:00:00AM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 09/07/2017 9:06:35AM

Method Blank

Blank ID: MB for HBN 1767733 [WXX/11982]
Blank Lab ID: 1410727

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 4500-N D**

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

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 2:27:03PM

Prep Batch: WXX11982
Prep Method: METHOD
Prep Date/Time: 9/5/2017 6:50:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176148 [WXX11982]
Blank Spike Lab ID: 1410728
Date Analyzed: 09/06/2017 14:28

Spike Duplicate ID: LCSD for HBN 1176148 [WXX11982]
Spike Duplicate Lab ID: 1410729
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 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	3.91	98	4	3.87	97	(75-125)	1.10	(< 25)

Batch Information

Analytical Batch: **WDA4052**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11982**
Prep Method: **METHOD**
Prep Date/Time: **09/05/2017 18:50**
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: 1175669001
MS Sample ID: 1410730 MS
MSD Sample ID: 1410731 MSD

Analysis Date: 09/06/2017 14:30
Analysis Date: 09/06/2017 14:32
Analysis Date: 09/06/2017 14:33
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176148001, 1176148002, 1176148003, 1176148004, 1176148005, 1176148006, 1176148007, 1176148008, 1176148009, 1176148010, 1176148011, 1176148012, 1176148013, 1176148014

Results by **SM21 4500-N D**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Kjeldahl Nitrogen	0.500U	4.00	3.77	94	4.00	3.92	98	75-125	3.70	(< 25)

Batch Information

Analytical Batch: WDA4052
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 2:32:17PM

Prep Batch: WXX11982
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/5/2017 6:50:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/07/2017 9:06:39AM

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

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: (907) 266-1108

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

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

INVOICE TO: QUOTE #:

P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	Section 3 # CONTAINERS	Type C = COMP G = GRAB Multi Incremental Soils	Preservative										REMARKS/ LOC ID
							1	1	H_2SO_4	1	$Na_2S_2O_3$	Na_2SO_4					
							BOD	TSS	TP/TKN/Ammonia	Nitrate/Nitrite	Total Coli Quant	FC					
(1) A-F	SW-1	08/29/17	0922	W	6	G	1	1	1	1	1	1					
(2) A-F	SW-2	08/29/17	0943	W	6	G	1	1	1	1	1	1					
(3) A-F	SW-3	08/29/17	1002	W	6	G	1	1	1	1	1	1					
(4) A-F	SW-4	08/29/17	1015	W	6	G	1	1	1	1	1	1					
(5) A-F	SW-5	08/29/17	1023	W	6	G	1	1	1	1	1	1					

Section 5

	Date	Time	Received By:
Relinquished By: (1)	8/29/17	4:00	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	8/29/17	16:05	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.4 D41

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN (ABSENT)

(See attached Sample Receipt Form)

Hand deliv

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Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: (907) 266-1108

PROJECT NAME: Nuiqsut WWTP Surface PROJECT/ PWSID/ PERMIT#:

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

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	Section 3 # CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative: 1	1	H_2SO_4	1	H_2SO_4	H_2SO_4					REMARKS/ LOC ID
							BOD	TSS	TP/TKN/ Ammonia	Nitrate/Nitrite	Total Coli Quant	EC					
(6) A-F	SW-6	8/29/17	1124	W	6	G	1	1	1	1	1	1					
(7) A-F	SW-7	8/29/17	1135	W	6	G	1	1	1	1	1	1					
(8) A-F	SW-8	8/29/17	1220	W	6	G	1	1	1	1	1	1					
(9) A-F	SW-9	8/29/17	1204	W	6	G	1	1	1	1	1	1					
(10) A-F	SW-10	8/29/17	1154	W	6	G	1	1	1	1	1	1					

Section 5

	Date	Time	Received By:
Relinquished By: (1)	8/29/17	4:20	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	8/29/17	16:05	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.6 D20

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

AD

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Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: (907) 266-1108

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

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

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

Section 3

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative										REMARKS/ LOC ID
							1	1	H2SO4	1	NaSO4	NaSO4					
							BOD	TSS	TP/TKN/Ammonia	Nitrate/Nitrite	Total Coli Quant	FC					
(11) A-F	SW-11	8/29/17	1315	W	6	G											
(12) A-F	SW-12	8/29/17	1333	W	6	G											
(13) A-F	SW-13	8/29/17	1347	W	6	G											
(14) A-F	Duplicat 1	8/29/17	1333	W	6	G											

Section 5

	Date	Time	
Relinquished By: (1)	8/29/17	4:20	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	8/29/17	16:05	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.6 D 24

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN (ABSENT)

(See attached Sample Receipt Form)

HD

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e-Sample Receipt Form

SGS Workorder #: **1176148**

1 1 7 6 1 4 8

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	
Yes **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 2.4 °C Therm. ID: D41
	Yes	Cooler ID: 2 @ 3.6 °C Therm. ID: D20
	Yes	Cooler ID: 3 @ 3.6 °C Therm. ID: D24
	N/A	Cooler ID: @ °C Therm. ID:
	N/A	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	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
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)? **Note: If times differ <1hr, record details & login per COC.	Yes	
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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
1176148001-A	No Preservative Required	OK	1176148008-A	No Preservative Required	OK
1176148001-B	No Preservative Required	OK	1176148008-B	No Preservative Required	OK
1176148001-C	H2SO4 to pH < 2	OK	1176148008-C	H2SO4 to pH < 2	OK
1176148001-D	No Preservative Required	OK	1176148008-D	No Preservative Required	OK
1176148001-E	Na2S2O3 for Chlorine Redu	OK	1176148008-E	Na2S2O3 for Chlorine Redu	OK
1176148001-F	Na2S2O3 for Chlorine Redu	OK	1176148008-F	Na2S2O3 for Chlorine Redu	OK
1176148002-A	No Preservative Required	OK	1176148009-A	No Preservative Required	OK
1176148002-B	No Preservative Required	OK	1176148009-B	No Preservative Required	OK
1176148002-C	H2SO4 to pH < 2	OK	1176148009-C	H2SO4 to pH < 2	OK
1176148002-D	No Preservative Required	OK	1176148009-D	No Preservative Required	OK
1176148002-E	Na2S2O3 for Chlorine Redu	OK	1176148009-E	Na2S2O3 for Chlorine Redu	OK
1176148002-F	Na2S2O3 for Chlorine Redu	OK	1176148009-F	Na2S2O3 for Chlorine Redu	OK
1176148003-A	No Preservative Required	OK	1176148010-A	No Preservative Required	OK
1176148003-B	No Preservative Required	OK	1176148010-B	No Preservative Required	OK
1176148003-C	H2SO4 to pH < 2	OK	1176148010-C	H2SO4 to pH < 2	OK
1176148003-D	No Preservative Required	OK	1176148010-D	No Preservative Required	OK
1176148003-E	Na2S2O3 for Chlorine Redu	OK	1176148010-E	Na2S2O3 for Chlorine Redu	OK
1176148003-F	Na2S2O3 for Chlorine Redu	OK	1176148010-F	Na2S2O3 for Chlorine Redu	OK
1176148004-A	No Preservative Required	OK	1176148011-A	No Preservative Required	OK
1176148004-B	No Preservative Required	OK	1176148011-B	No Preservative Required	OK
1176148004-C	H2SO4 to pH < 2	OK	1176148011-C	H2SO4 to pH < 2	OK
1176148004-D	No Preservative Required	OK	1176148011-D	No Preservative Required	OK
1176148004-E	Na2S2O3 for Chlorine Redu	OK	1176148011-E	Na2S2O3 for Chlorine Redu	OK
1176148004-F	Na2S2O3 for Chlorine Redu	OK	1176148011-F	Na2S2O3 for Chlorine Redu	OK
1176148005-A	No Preservative Required	OK	1176148012-A	No Preservative Required	OK
1176148005-B	No Preservative Required	OK	1176148012-B	No Preservative Required	OK
1176148005-C	H2SO4 to pH < 2	OK	1176148012-C	H2SO4 to pH < 2	OK
1176148005-D	No Preservative Required	OK	1176148012-D	No Preservative Required	OK
1176148005-E	Na2S2O3 for Chlorine Redu	OK	1176148012-E	Na2S2O3 for Chlorine Redu	OK
1176148005-F	Na2S2O3 for Chlorine Redu	OK	1176148012-F	Na2S2O3 for Chlorine Redu	OK
1176148006-A	No Preservative Required	OK	1176148013-A	No Preservative Required	OK
1176148006-B	No Preservative Required	OK	1176148013-B	No Preservative Required	OK
1176148006-C	H2SO4 to pH < 2	OK	1176148013-C	H2SO4 to pH < 2	OK
1176148006-D	No Preservative Required	OK	1176148013-D	No Preservative Required	OK
1176148006-E	Na2S2O3 for Chlorine Redu	OK	1176148013-E	Na2S2O3 for Chlorine Redu	OK
1176148006-F	Na2S2O3 for Chlorine Redu	OK	1176148013-F	Na2S2O3 for Chlorine Redu	OK
1176148007-A	No Preservative Required	OK	1176148014-A	No Preservative Required	OK
1176148007-B	No Preservative Required	OK	1176148014-B	No Preservative Required	OK
1176148007-C	H2SO4 to pH < 2	OK	1176148014-C	H2SO4 to pH < 2	OK
1176148007-D	No Preservative Required	OK	1176148014-D	No Preservative Required	OK
1176148007-E	Na2S2O3 for Chlorine Redu	OK	1176148014-E	Na2S2O3 for Chlorine Redu	OK
1176148007-F	Na2S2O3 for Chlorine Redu	OK	1176148014-F	Na2S2O3 for Chlorine Redu	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.
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.

Laboratory Report of Analysis

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

Report Number: **1176190**

Client Project: **Wasilla WWTP Surface**

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

Print Date: 09/19/2017 4:06:35PM

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1176190**
Project Name/Site: **Wasilla WWTP Surface**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1176150001DUP (1409589) DUP

2540D - Total Suspended Solids - Sample duplicate RPD was outside of acceptance limits. The difference between sample and duplicate results is less than the LOQ.

1176233001(1409745MS) (1409746) MS

6020A - Metals MS recovery for silver (121%) does not meet QC criteria. The post digestion spike was successful.

1178298001MS (1410919) MS

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

1176199001MS (1411834) MS

300.0 - Anions - MS recoveries for Chloride and Sulfate are outside of QC criteria. Refer to LCS for accuracy requirements.

1176233001(1409745MSD) (1409747) MSD

6020A - Metals MSD recovery for silver (117%) does not meet QC criteria. The post digestion spike was successful.

1176199001MSD (1411835) MSD

300.0 - Anions - MSD recoveries for Chloride and Sulfate are outside of QC criteria. Refer to LCS for accuracy requirements.

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

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. 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) & UST-005 (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). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW-14	1176190001	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
SW-15	1176190002	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
SW-16	1176190003	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
Duplicate 2	1176190004	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
SW-17	1176190005	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
SW-18	1176190006	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
B1	1176190007	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
B3	1176190008	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
B4	1176190009	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
B11	1176190010	08/30/2017	08/30/2017	Water (Surface, Eff., Ground)
Duplicate 3	1176190011	08/30/2017	08/30/2017	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
SW6020A	Metals by ICP-MS
SM21 4500-N D	TKN by Phenate (W)
SM21 9223B	Total Coliform P/A Quant Tray
SM21 4500P-B,E	Total Phosphorus (W)
SM21 2540D	Total Suspended Solids SM20 2540D

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Detectable Results Summary

Client Sample ID: **SW-14**
Lab Sample ID: 1176190001

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	11.0	ug/L
	Barium	46.2	ug/L
	Copper	1.90J	ug/L
	Zinc	12.8J	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	3.14	mg/L
	E. Coli	613	MPN/100mL
	Fecal Coliform	280	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	0.0336J	mg/L
	Total Kjeldahl Nitrogen	2.15	mg/L
	Total Phosphorus	0.580	mg/L
	Total Suspended Solids	370	mg/L

Client Sample ID: **SW-15**
Lab Sample ID: 1176190002

	Parameter	Result	Units
Metals by ICP/MS	Arsenic	2.49J	ug/L
	Barium	23.9	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	3.51	mg/L
	E. Coli	326	MPN/100mL
	Fecal Coliform	160	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Total Kjeldahl Nitrogen	1.72	mg/L
	Total Phosphorus	0.154	mg/L
	Total Suspended Solids	58.0	mg/L

Client Sample ID: **SW-16**
Lab Sample ID: 1176190003

	Parameter	Result	Units
Metals by ICP/MS	Barium	31.9	ug/L
	Copper	3.16J	ug/L
	Lead	0.424J	ug/L
	Zinc	8.35J	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	6.12	mg/L
	E. Coli	1	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0538J	mg/L
	Total Kjeldahl Nitrogen	8.56	mg/L
	Total Phosphorus	0.529	mg/L
	Total Suspended Solids	805	mg/L

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Detectable Results Summary

Client Sample ID: **Duplicate 2**
Lab Sample ID: 1176190004

	Parameter	Result	Units
Metals by ICP/MS	Barium	36.9	ug/L
	Copper	4.88J	ug/L
	Lead	0.692J	ug/L
	Zinc	9.41J	ug/L
Microbiology Laboratory	Biochemical Oxygen Demand	6.75	mg/L
	E. Coli	3	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0703J	mg/L
	Total Kjeldahl Nitrogen	14.5	mg/L
	Total Phosphorus	0.671	mg/L
	Total Suspended Solids	859	mg/L

Client Sample ID: **SW-17**
Lab Sample ID: 1176190005

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	236	MPN/100mL
	Fecal Coliform	120	col/100mL
	Total Coliform	1203	MPN/100mL
Waters Department	Ammonia-N	0.122	mg/L
	Nitrate-N	2.15	mg/L
	Total Kjeldahl Nitrogen	0.620J	mg/L
	Total Nitrate/Nitrite-N	2.18	mg/L
	Total Phosphorus	0.264	mg/L
	Total Suspended Solids	5.77	mg/L

Client Sample ID: **SW-18**
Lab Sample ID: 1176190006

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.64	mg/L
	E. Coli	140	MPN/100mL
	Fecal Coliform	55	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.131	mg/L
	Nitrate-N	4.83	mg/L
	Total Kjeldahl Nitrogen	0.856J	mg/L
	Total Nitrate/Nitrite-N	4.88	mg/L
	Total Phosphorus	0.910	mg/L
	Total Suspended Solids	6.84	mg/L

Client Sample ID: **B1**
Lab Sample ID: 1176190007

	Parameter	Result	Units
Waters Department	Ammonia-N	0.0614J	mg/L

Client Sample ID: **B3**
Lab Sample ID: 1176190008

	Parameter	Result	Units
Waters Department	Ammonia-N	0.298	mg/L
	Total Kjeldahl Nitrogen	2.01	mg/L

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Detectable Results Summary

Client Sample ID: **B4**
Lab Sample ID: 1176190009
Waters Department

Parameter	Result	Units
Ammonia-N	0.0926J	mg/L
Nitrate-N	1.47	mg/L
Total Kjeldahl Nitrogen	0.375J	mg/L
Total Nitrate/Nitrite-N	1.49	mg/L

Client Sample ID: **B11**
Lab Sample ID: 1176190010
Microbiology Laboratory
Waters Department

Parameter	Result	Units
Fecal Coliform	10	col/100mL
Ammonia-N	0.166	mg/L
Total Kjeldahl Nitrogen	0.367J	mg/L

Client Sample ID: **Duplicate 3**
Lab Sample ID: 1176190011
Waters Department

Parameter	Result	Units
Ammonia-N	0.0625J	mg/L

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Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190001
Lab Project ID: 1176190

Collection Date: 08/30/17 09:45
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	11.0		5.00	1.50	ug/L	5		09/16/17 00:47
Barium	46.2		3.00	0.940	ug/L	5		09/16/17 00:47
Cadmium	1.00 U		2.00	0.620	ug/L	5		09/16/17 00:47
Chromium	2.00 U		4.00	1.30	ug/L	5		09/16/17 00:47
Copper	1.90 J		6.00	1.80	ug/L	5		09/16/17 00:47
Lead	0.500 U		1.00	0.310	ug/L	5		09/16/17 00:47
Mercury	0.100 U		0.200	0.0620	ug/L	5		09/16/17 00:47
Selenium	10.0 U		20.0	6.20	ug/L	5		09/16/17 00:47
Silver	1.00 U		2.00	0.620	ug/L	5		09/16/17 00:47
Zinc	12.8 J		25.0	7.80	ug/L	5		09/16/17 00:47

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 09/16/17 00:47
Container ID: 1176190001-E

Prep Batch: MXX31001
Prep Method: SW3010A
Prep Date/Time: 09/01/17 13:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190001
Lab Project ID: 1176190

Collection Date: 08/30/17 09:45
Received Date: 08/30/17 16:54
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	3.14		2.00	2.00	mg/L	1		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	280		10.0	10.0	col/100mL	1		08/30/17 17:33

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 17:33
Container ID: 1176190001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	613		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	2420		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190001-F

Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190001
Lab Project ID: 1176190

Collection Date: 08/30/17 09:45
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 17:18
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:18
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:18

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 17:18
Container ID: 1176190001-G

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	370		10.0	3.10	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190001-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.15		1.00	0.310	mg/L	1		09/07/17 12:43

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:43
Container ID: 1176190001-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0336	J	0.100	0.0310	mg/L	1		09/06/17 16:47

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190001
Lab Project ID: 1176190

Collection Date: 08/30/17 09:45
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:47
Container ID: 1176190001-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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	0.580		0.200	0.0620	mg/L	10		09/08/17 17:35

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 17:35
Container ID: 1176190001-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190002
Lab Project ID: 1176190

Collection Date: 08/30/17 09:30
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	2.49	J	5.00	1.50	ug/L	5		09/16/17 00:52
Barium	23.9		3.00	0.940	ug/L	5		09/16/17 00:52
Cadmium	1.00	U	2.00	0.620	ug/L	5		09/16/17 00:52
Chromium	2.00	U	4.00	1.30	ug/L	5		09/16/17 00:52
Copper	3.00	U	6.00	1.80	ug/L	5		09/16/17 00:52
Lead	0.500	U	1.00	0.310	ug/L	5		09/16/17 00:52
Mercury	0.100	U	0.200	0.0620	ug/L	5		09/16/17 00:52
Selenium	10.0	U	20.0	6.20	ug/L	5		09/16/17 00:52
Silver	1.00	U	2.00	0.620	ug/L	5		09/16/17 00:52
Zinc	12.5	U	25.0	7.80	ug/L	5		09/16/17 00:52

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 09/16/17 00:52
Container ID: 1176190002-E

Prep Batch: MXX31001
Prep Method: SW3010A
Prep Date/Time: 09/01/17 13:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190002
Lab Project ID: 1176190

Collection Date: 08/30/17 09:30
Received Date: 08/30/17 16:54
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	3.51		2.00	2.00	mg/L	1		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	160		10.0	10.0	col/100mL	1		08/30/17 17:19

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 17:19
Container ID: 1176190002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	326		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	>2420		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190002-F

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190002
Lab Project ID: 1176190

Collection Date: 08/30/17 09:30
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 17:36
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:36
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:36

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 17:36
Container ID: 1176190002-G

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	58.0		5.00	1.55	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190002-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.72		1.00	0.310	mg/L	1		09/07/17 12:47

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:47
Container ID: 1176190002-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0500	U	0.100	0.0310	mg/L	1		09/06/17 16:48

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190002
Lab Project ID: 1176190

Collection Date: 08/30/17 09:30
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:48
Container ID: 1176190002-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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		0.0200	0.00620	mg/L	1		09/08/17 16:48

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 16:48
Container ID: 1176190002-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190003
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	2.50	U	5.00	1.50	ug/L	5		09/16/17 00:56
Barium	31.9		3.00	0.940	ug/L	5		09/16/17 00:56
Cadmium	1.00	U	2.00	0.620	ug/L	5		09/16/17 00:56
Chromium	2.00	U	4.00	1.30	ug/L	5		09/16/17 00:56
Copper	3.16	J	6.00	1.80	ug/L	5		09/16/17 00:56
Lead	0.424	J	1.00	0.310	ug/L	5		09/16/17 00:56
Mercury	0.100	U	0.200	0.0620	ug/L	5		09/16/17 00:56
Selenium	10.0	U	20.0	6.20	ug/L	5		09/16/17 00:56
Silver	1.00	U	2.00	0.620	ug/L	5		09/16/17 00:56
Zinc	8.35	J	25.0	7.80	ug/L	5		09/16/17 00:56

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 09/16/17 00:56
Container ID: 1176190003-E

Prep Batch: MXX31001
Prep Method: SW3010A
Prep Date/Time: 09/01/17 13:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190003
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
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	6.12		2.00	2.00	mg/L	1		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		08/30/17 17:19

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 17:19
Container ID: 1176190003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	>2420		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190003-F

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190003
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 17:54
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:54
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 17:54

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 17:54
Container ID: 1176190003-G

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	805		10.0	3.10	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190003-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	8.56		1.00	0.310	mg/L	1		09/07/17 12:48

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:48
Container ID: 1176190003-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0538	J	0.100	0.0310	mg/L	1		09/06/17 16:50

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190003
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:50
Container ID: 1176190003-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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	0.529		0.200	0.0620	mg/L	1		09/08/17 16:51

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 16:51
Container ID: 1176190003-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190004
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Metals by ICP/MS**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Arsenic	2.50	U	5.00	1.50	ug/L	5		09/16/17 01:01
Barium	36.9		3.00	0.940	ug/L	5		09/16/17 01:01
Cadmium	1.00	U	2.00	0.620	ug/L	5		09/16/17 01:01
Chromium	2.00	U	4.00	1.30	ug/L	5		09/16/17 01:01
Copper	4.88	J	6.00	1.80	ug/L	5		09/16/17 01:01
Lead	0.692	J	1.00	0.310	ug/L	5		09/16/17 01:01
Mercury	0.100	U	0.200	0.0620	ug/L	5		09/16/17 01:01
Selenium	10.0	U	20.0	6.20	ug/L	5		09/16/17 01:01
Silver	1.00	U	2.00	0.620	ug/L	5		09/16/17 01:01
Zinc	9.41	J	25.0	7.80	ug/L	5		09/16/17 01:01

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Analyst: ACF
Analytical Date/Time: 09/16/17 01:01
Container ID: 1176190004-E

Prep Batch: MXX31001
Prep Method: SW3010A
Prep Date/Time: 09/01/17 13:30
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190004
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
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	6.75		2.00	2.00	mg/L	1		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00 U		1.00	1.00	col/100mL	1		08/30/17 17:19

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 17:19
Container ID: 1176190004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	>2420		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190004-F

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190004
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 18:12
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 18:12
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 18:12

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 18:12
Container ID: 1176190004-G

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	859		10.0	3.10	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	14.5		10.0	3.10	mg/L	10		09/07/17 13:29

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:29
Container ID: 1176190004-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0703	J	0.100	0.0310	mg/L	1		09/06/17 16:52

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190004
Lab Project ID: 1176190

Collection Date: 08/30/17 09:20
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:52
Container ID: 1176190004-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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	0.671		0.200	0.0620	mg/L	1		09/08/17 16:53

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 16:53
Container ID: 1176190004-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190005
Lab Project ID: 1176190

Collection Date: 08/30/17 11:23
Received Date: 08/30/17 16:54
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		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	120		2.00	2.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	236		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	1203		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190005-E

Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190005
Lab Project ID: 1176190

Collection Date: 08/30/17 11:23
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.15		0.200	0.0620	mg/L	1		08/31/17 18:30
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 18:30
Total Nitrate/Nitrite-N	2.18		0.200	0.0620	mg/L	1		08/31/17 18:30

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 18:30
Container ID: 1176190005-F

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	5.77		0.995	0.308	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190005-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.620	J	1.00	0.310	mg/L	1		09/07/17 12:50

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:50
Container ID: 1176190005-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.122		0.100	0.0310	mg/L	1		09/06/17 16:56

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190005
Lab Project ID: 1176190

Collection Date: 08/30/17 11:23
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:56
Container ID: 1176190005-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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	0.264		0.0200	0.00620	mg/L	1		09/08/17 16:54

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 16:54
Container ID: 1176190005-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190006
Lab Project ID: 1176190

Collection Date: 08/30/17 11:00
Received Date: 08/30/17 16:54
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	2.64		2.00	2.00	mg/L	1		08/31/17 16:34

Batch Information

Analytical Batch: BOD5844
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 08/31/17 16:34
Container ID: 1176190006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	55		1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	140		1	1	MPN/100m	1		08/30/17 18:28
Total Coliform	>2420		1	1	MPN/100m	1		08/30/17 18:28

Batch Information

Analytical Batch: BTF15948
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 08/30/17 18:28
Container ID: 1176190006-E

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190006
Lab Project ID: 1176190

Collection Date: 08/30/17 11:00
Received Date: 08/30/17 16:54
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	4.83		0.200	0.0620	mg/L	1		08/31/17 18:48
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 18:48
Total Nitrate/Nitrite-N	4.88		0.200	0.0620	mg/L	1		08/31/17 18:48

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 18:48
Container ID: 1176190006-F

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	6.84		1.02	0.316	mg/L	1		08/31/17 18:57

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Analyst: AYC
Analytical Date/Time: 08/31/17 18:57
Container ID: 1176190006-C

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.856	J	1.00	0.310	mg/L	1		09/07/17 12:54

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:54
Container ID: 1176190006-D

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.131		0.100	0.0310	mg/L	1		09/06/17 16:58

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190006
Lab Project ID: 1176190

Collection Date: 08/30/17 11:00
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 16:58
Container ID: 1176190006-D

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
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	0.910		0.200	0.0620	mg/L	10		09/08/17 17:36

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Analyst: NEG
Analytical Date/Time: 09/08/17 17:36
Container ID: 1176190006-D

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/08/17 14:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190007
Lab Project ID: 1176190

Collection Date: 08/30/17 13:45
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190007-A

Results of **B1**

Client Sample ID: **B1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190007
Lab Project ID: 1176190

Collection Date: 08/30/17 13:45
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 19:05
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 19:05
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 19:05

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 19:05
Container ID: 1176190007-B

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 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		09/07/17 12:56

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:56
Container ID: 1176190007-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0614	J	0.100	0.0310	mg/L	1		09/06/17 17:00

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:00
Container ID: 1176190007-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190008
Lab Project ID: 1176190

Collection Date: 08/30/17 14:15
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190008-A

Results of **B3**

Client Sample ID: **B3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190008
Lab Project ID: 1176190

Collection Date: 08/30/17 14:15
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 19:23
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 19:23
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 19:23

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 19:23
Container ID: 1176190008-B

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.01		1.00	0.310	mg/L	1		09/07/17 12:57

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:57
Container ID: 1176190008-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.298		0.100	0.0310	mg/L	1		09/06/17 17:02

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:02
Container ID: 1176190008-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190009
Lab Project ID: 1176190

Collection Date: 08/30/17 12:38
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190009-A

Results of **B4**

Client Sample ID: **B4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190009
Lab Project ID: 1176190

Collection Date: 08/30/17 12:38
Received Date: 08/30/17 16:54
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	1.47		0.200	0.0620	mg/L	1		08/31/17 20:24
Nitrite-N	0.100 U		0.200	0.0620	mg/L	1		08/31/17 20:24
Total Nitrate/Nitrite-N	1.49		0.200	0.0620	mg/L	1		08/31/17 20:24

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 20:24
Container ID: 1176190009-B

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.375 J		1.00	0.310	mg/L	1		09/07/17 12:58

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 12:58
Container ID: 1176190009-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0926 J		0.100	0.0310	mg/L	1		09/06/17 17:03

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:03
Container ID: 1176190009-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190010
Lab Project ID: 1176190

Collection Date: 08/30/17 14:53
Received Date: 08/30/17 16:54
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	10		1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190010-A

Results of **B11**

Client Sample ID: **B11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190010
Lab Project ID: 1176190

Collection Date: 08/30/17 14:53
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 20:42
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 20:42
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 20:42

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 20:42
Container ID: 1176190010-B

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.367	J	1.00	0.310	mg/L	1		09/07/17 13:00

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:00
Container ID: 1176190010-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.166		0.100	0.0310	mg/L	1		09/06/17 17:05

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:05
Container ID: 1176190010-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **Duplicate 3**

Client Sample ID: **Duplicate 3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190011
Lab Project ID: 1176190

Collection Date: 08/30/17 13:45
Received Date: 08/30/17 16:54
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/30/17 18:15

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/30/17 18:15
Container ID: 1176190011-A

Print Date: 09/19/2017 4:06:42PM

J flagging is activated

Results of **Duplicate 3**

Client Sample ID: **Duplicate 3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176190011
Lab Project ID: 1176190

Collection Date: 08/30/17 13:45
Received Date: 08/30/17 16:54
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	0.0620	mg/L	1		08/31/17 21:00
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 21:00
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		08/31/17 21:00

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 08/31/17 21:00
Container ID: 1176190011-B

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 08/31/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 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		09/07/17 13:01

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:01
Container ID: 1176190011-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0625	J	0.100	0.0310	mg/L	1		09/06/17 17:07

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:07
Container ID: 1176190011-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Method Blank

Blank ID: MB for HBN 1767281 [BOD/5844]
Blank Lab ID: 1409555

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

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: BOD5844
Analytical Method: SM21 5210B
Instrument:
Analyst: AKD
Analytical Date/Time: 8/31/2017 4:34:00PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [BOD5844]
Blank Spike Lab ID: 1409556
Date Analyzed: 08/31/2017 16:34

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	190	96	(84.6-115.4

Batch Information

Analytical Batch: **BOD5844**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **AKD**

Print Date: 09/19/2017 4:06:50PM

Method Blank

Blank ID: MB for HBN 1767184 [BTF/15944]
Blank Lab ID: 1409295

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/30/2017 5:19:00PM

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Method Blank

Blank ID: MB for HBN 1767184 [BTF/15944]
Blank Lab ID: 1409296

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF15944
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/30/2017 6:15:00PM

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Method Blank

Blank ID: MB for HBN 1767222 [BTF/15948]
Blank Lab ID: 1409291

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

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: BTF15948
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 8/30/2017 3:50:00PM

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Method Blank

Blank ID: MB for HBN 1767332 [MXX/31001]
Blank Lab ID: 1409743

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004

Results by **SW6020A**

Parameter	Results	LOQ/CL	DL	Units
Arsenic	2.50U	5.00	1.50	ug/L
Barium	1.50U	3.00	0.940	ug/L
Cadmium	1.00U	2.00	0.620	ug/L
Chromium	2.00U	4.00	1.30	ug/L
Copper	3.00U	6.00	1.80	ug/L
Lead	0.500U	1.00	0.310	ug/L
Mercury	0.100U	0.200	0.0620	ug/L
Selenium	10.0U	20.0	6.20	ug/L
Silver	1.00U	2.00	0.620	ug/L
Zinc	12.5U	25.0	7.80	ug/L

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 9/15/2017 11:35:25PM

Prep Batch: MXX31001
Prep Method: SW3010A
Prep Date/Time: 9/1/2017 1:30:45PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [MXX31001]
Blank Spike Lab ID: 1409744
Date Analyzed: 09/15/2017 23:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004

Results by **SW6020A**

Blank Spike (ug/L)

Parameter	Spike	Result	Rec (%)	CL
Arsenic	1000	987	99	(84-116)
Barium	1000	994	99	(86-114)
Cadmium	100	98.8	99	(87-115)
Chromium	400	394	99	(85-116)
Copper	1000	1020	102	(85-118)
Lead	1000	1050	105	(88-115)
Mercury	10	10.3	103	(70-124)
Selenium	1000	971	97	(80-120)
Silver	100	105	105	(85-116)
Zinc	1000	988	99	(83-119)

Batch Information

Analytical Batch: **MMS9937**
Analytical Method: **SW6020A**
Instrument: **Perkin Elmer Nexlon P5**
Analyst: **ACF**

Prep Batch: **MXX31001**
Prep Method: **SW3010A**
Prep Date/Time: **09/01/2017 13:30**
Spike Init Wt./Vol.: 1000 ug/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1409745
MS Sample ID: 1409746 MS
MSD Sample ID: 1409747 MSD

Analysis Date: 09/15/2017 23:44
Analysis Date: 09/15/2017 23:48
Analysis Date: 09/15/2017 23:53
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004

Results by **SW6020A**

		Matrix Spike (ug/L)				Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)		CL	RPD (%)	RPD CL
Arsenic	2.50U	1000	1040	104		1000	1010	101		84-116	2.92	(< 20)
Barium	22.7	1000	1040	102		1000	998	98		86-114	4.08	(< 20)
Cadmium	1.00U	100	100	100		100	96.6	97		87-115	3.63	(< 20)
Chromium	2.00U	400	411	103		400	377	94		85-116	8.67	(< 20)
Copper	3.00U	1000	1030	103		1000	967	97		85-118	6.00	(< 20)
Lead	0.500U	1000	1100	110		1000	1050	105		88-115	4.51	(< 20)
Mercury	0.100U	10.0	10.7	107		10.0	10.0	100		70-124	6.54	(< 20)
Selenium	10.0U	1000	1010	101		1000	999	100		80-120	1.37	(< 20)
Silver	1.00U	100	121	121	*	100	117	117	*	85-116	3.76	(< 20)
Zinc	12.5U	1000	987	99		1000	966	97		83-119	2.12	(< 20)

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 9/15/2017 11:48:59PM

Prep Batch: MXX31001
Prep Method: 3010 H20 Digest for Metals ICP-MS
Prep Date/Time: 9/1/2017 1:30:45PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/19/2017 4:07:01PM

Bench Spike Summary

Original Sample ID: 1409745
MS Sample ID: 1409748 BND
MSD Sample ID:

Analysis Date: 09/15/2017 23:44
Analysis Date: 09/15/2017 23:58
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004

Results by **SW6020A**

		Matrix Spike (ug/L)			Spike Duplicate (ug/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Silver	1.00U	25.0	28.4	114				80-120		

Batch Information

Analytical Batch: MMS9937
Analytical Method: SW6020A
Instrument: Perkin Elmer Nexlon P5
Analyst: ACF
Analytical Date/Time: 9/15/2017 11:58:03PM

Prep Batch: MXX31001
Prep Method: 3010 H20 Digest for Metals ICP-MS
Prep Date/Time: 9/1/2017 1:30:45PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/19/2017 4:07:01PM

Method Blank

Blank ID: MB for HBN 1767286 [STS/5620]
Blank Lab ID: 1409586

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

Results by **SM21 2540D**

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

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC
Analytical Date/Time: 8/31/2017 6:57:47PM

Duplicate Sample Summary

Original Sample ID: 1176150001
Duplicate Sample ID: 1409589
QC for Samples:

Analysis Date: 08/31/2017 18:57
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	410	340	mg/L	18.70*	(< 5)

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC

Print Date: 09/19/2017 4:07:03PM

Duplicate Sample Summary

Original Sample ID: 1176152001
Duplicate Sample ID: 1409590

Analysis Date: 08/31/2017 18:57
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	21.2	22.0	mg/L	3.70	(< 5)

Batch Information

Analytical Batch: STS5620
Analytical Method: SM21 2540D
Instrument:
Analyst: AYC

Print Date: 09/19/2017 4:07:03PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [STS5620]
Blank Spike Lab ID: 1409587
Date Analyzed: 08/31/2017 18:57

Spike Duplicate ID: LCSD for HBN 1176190 [STS5620]
Spike Duplicate Lab ID: 1409588
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	50	50.2	100	50	50.5	101	(75-125)	0.60	(< 5)

Batch Information

Analytical Batch: **STS5620**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **AYC**

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Method Blank

Blank ID: MB for HBN 1767771 [WXX/11983]
Blank Lab ID: 1410916

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

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: WDA4053
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 4:36:57PM

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 9/6/2017 4:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [WXX11983]
Blank Spike Lab ID: 1410917
Date Analyzed: 09/06/2017 16:38

Spike Duplicate ID: LCSD for HBN 1176190 [WXX11983]
Spike Duplicate Lab ID: 1410918
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

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	0.986	99	1	0.980	98	(75-125)	0.60	(< 25)

Batch Information

Analytical Batch: **WDA4053**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11983**
Prep Method: **METHOD**
Prep Date/Time: **09/06/2017 16:00**
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: 1178298001
MS Sample ID: 1410919 MS
MSD Sample ID: 1410920 MSD

Analysis Date: 09/06/2017 18:15
Analysis Date: 09/06/2017 18:17
Analysis Date: 09/06/2017 18:19
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

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	58.0	1.00	62.5	447 *	1.00	59.0	97	75-125	5.80	(< 25)

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 6:17:27PM

Prep Batch: WXX11983
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/6/2017 4:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/19/2017 4:07:10PM

Method Blank

Blank ID: MB for HBN 1767823 [WXX/11985]
Blank Lab ID: 1411144

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **SM21 4500-N D**

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

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/7/2017 12:39:15PM

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 9/6/2017 7:00:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [WXX11985]
Blank Spike Lab ID: 1411145
Date Analyzed: 09/07/2017 12:40

Spike Duplicate ID: LCSD for HBN 1176190 [WXX11985]
Spike Duplicate Lab ID: 1411146
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **SM21 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	3.88	97	4	3.95	99	(75-125)	1.60	(< 25)

Batch Information

Analytical Batch: **WDA4055**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11985**
Prep Method: **METHOD**
Prep Date/Time: **09/06/2017 19:00**
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: 1176190001
MS Sample ID: 1411147 MS
MSD Sample ID: 1411148 MSD

Analysis Date: 09/07/2017 12:43
Analysis Date: 09/07/2017 12:44
Analysis Date: 09/07/2017 12:45
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **SM21 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	2.15	4.00	5.27	78	4.00	5.36	80	75-125	1.80	(< 25)

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/7/2017 12:44:30PM

Prep Batch: WXX11985
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/6/2017 7:00:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/19/2017 4:07:13PM

Method Blank

Blank ID: MB for HBN 1768050 [WXX/11988]
Blank Lab ID: 1411795

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0137J	0.0200	0.00620	mg/L

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/8/2017 4:40:21PM

Prep Batch: WXX11988
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/8/2017 2:00:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [WXX11988]
Blank Spike Lab ID: 1411796
Date Analyzed: 09/08/2017 16:41

Spike Duplicate ID: LCSD for HBN 1176190 [WXX11988]
Spike Duplicate Lab ID: 1411797
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

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	0.196	98	0.2	0.204	102	(85-115)	3.90	(< 25)

Batch Information

Analytical Batch: **WDA4057**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11988**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/08/2017 14:00**
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: 1178295043
MS Sample ID: 1411798 MS
MSD Sample ID: 1411799 MSD

Analysis Date: 09/08/2017 16:43
Analysis Date: 09/08/2017 16:44
Analysis Date: 09/08/2017 16:45
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006

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	0.00970J	0.200	.201	96	0.200	0.203	97	75-125	0.89	(< 25)

Batch Information

Analytical Batch: WDA4057
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/8/2017 4:44:17PM

Prep Batch: WXX11988
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/8/2017 2:00:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/19/2017 4:07:17PM

Method Blank

Blank ID: MB for HBN 1768058 [WXX/11989]
Blank Lab ID: 1411832

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0620	mg/L
Nitrite-N	0.100U	0.200	0.0620	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0620	mg/L

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: NEG
Analytical Date/Time: 8/31/2017 4:42:23PM

Prep Batch: WXX11989
Prep Method: METHOD
Prep Date/Time: 8/31/2017 3:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176190 [WXX11989]
Blank Spike Lab ID: 1411833
Date Analyzed: 08/31/2017 17:00

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.06	101	(90-110)
Nitrite-N	5	5.06	101	(90-110)
Total Nitrate/Nitrite-N	10	10.1	101	(90-110)

Batch Information

Analytical Batch: **WIC5683**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **NEG**

Prep Batch: **WXX11989**
Prep Method: **METHOD**
Prep Date/Time: **08/31/2017 15:00**
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: 1176199001
MS Sample ID: 1411834 MS
MSD Sample ID: 1411835 MSD

Analysis Date: 08/31/2017 21:18
Analysis Date: 08/31/2017 21:36
Analysis Date: 08/31/2017 21:54
Matrix: Drinking Water

QC for Samples: 1176190001, 1176190002, 1176190003, 1176190004, 1176190005, 1176190006, 1176190007, 1176190008, 1176190009, 1176190010, 1176190011

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
Nitrite-N	0.100U	5.00	5.19	104	5.00	5.26	105	90-110	1.30	

Batch Information

Analytical Batch: WIC5683
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: NEG
Analytical Date/Time: 8/31/2017 9:36:41PM

Prep Batch: WXX11989
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/31/2017 3:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

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CHAIN OF CUSTODY RECORD

1176190

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

Page 1 of 1

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: (907) 266-1108

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

REPORTS TO: Surface E-MAIL: John.Marshall@stantec.com

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

Section 3

Section 2 RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative: 1	1	H_2SO_4	HNO_3	$Na_2S_2O_3$	Na_2SO_4	1				REMARKS/ LOC ID
							BOD_5	TSS	TKN/Ammonia/ TP	QCQA metals w/ Cu, Zn	Total Coli. Count	FC	Nitrate/Nitrite				
(1) A-G	SW-14	8/30/17	0945	W	7	G	1	1	1	1	1	1	1				
(2) A-G	SW-15	8/30/17	0930	W	7	G	1	1	1	1	1	1	1				
(3) A-G	SW-16	8/30/17	0920	W	7	G	1	1	1	1	1	1	1				
(4) A-G	Duplicate 2	8/30/17	0920	W	7	G	1	1	1	1	1	1	1				

Section 5

	Date	Time	
Relinquished By: (1)	8/30/17	4:45	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	8/30/17	1654	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 12.0 or Ambient [ ] (See attached Sample Receipt Form)

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

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

SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1176190

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

Page ____ of ____

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: (907) 266 1108

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

REPORTS TO: Surface/Subsurface E-MAIL: John.Marshall@stantec.com

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative										REMARKS/ LOC ID
							1	1	H_2SO_4	Na_2SO_3	$Na_2S_2O_3$	1	H_2SO_4				
							BOD5	TSS	TKN/Ammonia/ TP	Total Coli. Quant	FC	Nitrate/Nitrite	TKN/ Ammonia				
(5) A-F	SW-17	8/30/17	1123	W	6	G	1	1	1	1	1	1					
(6) A-F	SW-18	8/30/17	1100	W	6	G	1	1	1	1	1	1					
(7) A-C	B1	8/30/17	1345	W	3	G					1	1	1				
(8) A-C	B3	8/30/17	1415	W	3	G					1	1	1				
(9) A-C	B4	8/30/17	1238	W	3	G					1	1	1				
(10) A-C	B11	8/30/17	1453	W	3	G					1	1	1				
(11) A-C	Duplicate 3	8/30/17	1345	W	3	G					1	1	1				

Section 5

Relinquished By: (1)	Date 8/30/17	Time 4:51	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 8/30/17	Time 1654	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID: _____

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.0 041

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

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[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

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e-Sample Receipt Form

SGS Workorder #: **1176190**

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	
Yes **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 1.2 °C Therm. ID: D40
	Yes	Cooler ID: 2 @ 3.6 °C Therm. ID: D41
	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?	N/A	
If <0°C, were sample containers ice free?	N/A	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
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)? **Note: If times differ <1hr, record details & login per COC.	Yes	
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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
1176190001-A	Na2S2O3 for Chlorine Redu	OK
1176190001-B	No Preservative Required	OK
1176190001-C	No Preservative Required	OK
1176190001-D	H2SO4 to pH < 2	OK
1176190001-E	HNO3 to pH < 2	OK
1176190001-F	Na2S2O3 for Chlorine Redu	OK
1176190001-G	No Preservative Required	OK
1176190002-A	Na2S2O3 for Chlorine Redu	OK
1176190002-B	No Preservative Required	OK
1176190002-C	No Preservative Required	OK
1176190002-D	H2SO4 to pH < 2	OK
1176190002-E	HNO3 to pH < 2	OK
1176190002-F	Na2S2O3 for Chlorine Redu	OK
1176190002-G	No Preservative Required	OK
1176190003-A	Na2S2O3 for Chlorine Redu	OK
1176190003-B	No Preservative Required	OK
1176190003-C	No Preservative Required	OK
1176190003-D	H2SO4 to pH < 2	OK
1176190003-E	HNO3 to pH < 2	OK
1176190003-F	Na2S2O3 for Chlorine Redu	OK
1176190003-G	No Preservative Required	OK
1176190004-A	Na2S2O3 for Chlorine Redu	OK
1176190004-B	No Preservative Required	OK
1176190004-C	No Preservative Required	OK
1176190004-D	H2SO4 to pH < 2	OK
1176190004-E	HNO3 to pH < 2	OK
1176190004-F	Na2S2O3 for Chlorine Redu	OK
1176190004-G	No Preservative Required	OK
1176190005-A	Na2S2O3 for Chlorine Redu	OK
1176190005-B	No Preservative Required	OK
1176190005-C	No Preservative Required	OK
1176190005-D	H2SO4 to pH < 2	OK
1176190005-E	Na2S2O3 for Chlorine Redu	OK
1176190005-F	No Preservative Required	OK
1176190006-A	Na2S2O3 for Chlorine Redu	OK
1176190006-B	No Preservative Required	OK
1176190006-C	No Preservative Required	OK
1176190006-D	H2SO4 to pH < 2	OK
1176190006-E	Na2S2O3 for Chlorine Redu	OK
1176190006-F	No Preservative Required	OK
1176190007-A	Na2S2O3 for Chlorine Redu	OK
1176190007-B	No Preservative Required	OK
1176190007-C	H2SO4 to pH < 2	OK
1176190008-A	Na2S2O3 for Chlorine Redu	OK
1176190008-B	No Preservative Required	OK
1176190008-C	H2SO4 to pH < 2	OK
1176190009-A	Na2S2O3 for Chlorine Redu	OK
1176190009-B	No Preservative Required	OK
1176190009-C	H2SO4 to pH < 2	OK
1176190010-A	Na2S2O3 for Chlorine Redu	OK
1176190010-B	No Preservative Required	OK
1176190010-C	H2SO4 to pH < 2	OK
1176190011-A	Na2S2O3 for Chlorine Redu	OK
1176190011-B	No Preservative Required	OK
1176190011-C	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.
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.

Laboratory Report of Analysis

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

Report Number: **1176221**

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

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1176221**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

MW6 (1176221001) PS

300.0 - Anions - Sample analyzed past hold time, due to a lab error.

MW8 (1176221002) PS

300.0 - Anions - Sample analyzed past hold time, due to a lab error.

MW14 (1176221003) PS

300.0 - Anions - Sample analyzed past hold time, due to a lab error.

1178298001MS (1410919) MS

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

1176218012MS (1412005) MS

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

1176218012MSD (1412006) MSD

300.0 - Anions - MSD recovery for Chloride 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. 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) & UST-005 (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). Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

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

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

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Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
MW6	1176221001	08/31/2017	08/31/2017	Water (Surface, Eff., Ground)
MW8	1176221002	08/31/2017	08/31/2017	Water (Surface, Eff., Ground)
MW14	1176221003	08/31/2017	08/31/2017	Water (Surface, Eff., Ground)

Method	Method Description
SM21 4500-NH3 G	Ammonia-N (W) SM21 4500-NH3 G
SM21 9222D	Fecal Coliform (MF)
EPA 300.0	Ion Chromatographic Analysis
SM21 4500-N D	TKN by Phenate (W)

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Detectable Results Summary

Client Sample ID: **MW6**
Lab Sample ID: 1176221001
Waters Department

Parameter	Result	Units
Ammonia-N	0.0685J	mg/L

Client Sample ID: **MW8**
Lab Sample ID: 1176221002
Waters Department

Parameter	Result	Units
Ammonia-N	0.131	mg/L
Total Kjeldahl Nitrogen	0.763J	mg/L

Client Sample ID: **MW14**
Lab Sample ID: 1176221003
Waters Department

Parameter	Result	Units
Ammonia-N	0.122	mg/L
Nitrite-N	0.104J	mg/L
Total Kjeldahl Nitrogen	1.45	mg/L
Total Nitrate/Nitrite-N	0.141J	mg/L

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Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221001
Lab Project ID: 1176221

Collection Date: 08/31/17 09:44
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/31/17 17:10

Batch Information

Analytical Batch: BTF15952
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/31/17 17:10
Container ID: 1176221001-A

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Results of **MW6**

Client Sample ID: **MW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221001
Lab Project ID: 1176221

Collection Date: 08/31/17 09:44
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:02
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:02
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:02

Batch Information

Analytical Batch: WIC5684
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 09/08/17 13:02
Container ID: 1176221001-B

Prep Batch: WXX11990
Prep Method: METHOD
Prep Date/Time: 09/07/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 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		09/07/17 13:02

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:02
Container ID: 1176221001-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0685	J	0.100	0.0310	mg/L	1		09/06/17 17:10

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:10
Container ID: 1176221001-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **MW8**

Client Sample ID: **MW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221002
Lab Project ID: 1176221

Collection Date: 08/31/17 10:49
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/31/17 17:10

Batch Information

Analytical Batch: BTF15952
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/31/17 17:10
Container ID: 1176221002-A

Print Date: 09/14/2017 4:13:54PM

J flagging is activated

Results of **MW8**

Client Sample ID: **MW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221002
Lab Project ID: 1176221

Collection Date: 08/31/17 10:49
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:20
Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:20
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:20

Batch Information

Analytical Batch: WIC5684
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 09/08/17 13:20
Container ID: 1176221002-B

Prep Batch: WXX11990
Prep Method: METHOD
Prep Date/Time: 09/07/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.763	J	1.00	0.310	mg/L	1		09/07/17 13:04

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:04
Container ID: 1176221002-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.131		0.100	0.0310	mg/L	1		09/06/17 17:12

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:12
Container ID: 1176221002-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Results of **MW14**

Client Sample ID: **MW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221003
Lab Project ID: 1176221

Collection Date: 08/31/17 11:37
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.00	U	1.00	1.00	col/100mL	1		08/31/17 17:10

Batch Information

Analytical Batch: BTF15952
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 08/31/17 17:10
Container ID: 1176221003-A

Results of **MW14**

Client Sample ID: **MW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1176221003
Lab Project ID: 1176221

Collection Date: 08/31/17 11:37
Received Date: 08/31/17 16:34
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0620	mg/L	1		09/08/17 13:38
Nitrite-N	0.104	J	0.200	0.0620	mg/L	1		09/08/17 13:38
Total Nitrate/Nitrite-N	0.141	J	0.200	0.0620	mg/L	1		09/08/17 13:38

Batch Information

Analytical Batch: WIC5684
Analytical Method: EPA 300.0
Analyst: NEG
Analytical Date/Time: 09/08/17 13:38
Container ID: 1176221003-B

Prep Batch: WXX11990
Prep Method: METHOD
Prep Date/Time: 09/07/17 15:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.45		1.00	0.310	mg/L	1		09/07/17 13:05

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Analyst: NEG
Analytical Date/Time: 09/07/17 13:05
Container ID: 1176221003-C

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 09/06/17 19:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.122		0.100	0.0310	mg/L	1		09/06/17 17:17

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Analyst: NEG
Analytical Date/Time: 09/06/17 17:17
Container ID: 1176221003-C

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 09/06/17 16:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 09/14/2017 4:13:54PM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1767295 [BTF/15952]
Blank Lab ID: 1409612

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176221001, 1176221002, 1176221003

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF15952
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 8/31/2017 5:10:00PM

Print Date: 09/14/2017 4:13:56PM

Method Blank

Blank ID: MB for HBN 1767771 [WXX/11983]
Blank Lab ID: 1410916

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176221001, 1176221002, 1176221003

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: WDA4053
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 4:36:57PM

Prep Batch: WXX11983
Prep Method: METHOD
Prep Date/Time: 9/6/2017 4:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176221 [WXX11983]
Blank Spike Lab ID: 1410917
Date Analyzed: 09/06/2017 16:38

Spike Duplicate ID: LCSD for HBN 1176221 [WXX11983]
Spike Duplicate Lab ID: 1410918
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176221001, 1176221002, 1176221003

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	0.986	99	1	0.980	98	(75-125)	0.60	(< 25)

Batch Information

Analytical Batch: **WDA4053**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11983**
Prep Method: **METHOD**
Prep Date/Time: **09/06/2017 16:00**
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: 1178298001
MS Sample ID: 1410919 MS
MSD Sample ID: 1410920 MSD

Analysis Date: 09/06/2017 18:15
Analysis Date: 09/06/2017 18:17
Analysis Date: 09/06/2017 18:19
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176221001, 1176221002, 1176221003

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	58.0	1.00	62.5	447 *	1.00	59.0	97	75-125	5.80	(< 25)

Batch Information

Analytical Batch: WDA4053
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/6/2017 6:17:27PM

Prep Batch: WXX11983
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/6/2017 4:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/14/2017 4:14:00PM

Method Blank

Blank ID: MB for HBN 1767823 [WXX/11985]
Blank Lab ID: 1411144

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176221001, 1176221002, 1176221003

Results by **SM21 4500-N D**

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

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/7/2017 12:39:15PM

Prep Batch: WXX11985
Prep Method: METHOD
Prep Date/Time: 9/6/2017 7:00:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176221 [WXX11985]
Blank Spike Lab ID: 1411145
Date Analyzed: 09/07/2017 12:40

Spike Duplicate ID: LCSD for HBN 1176221 [WXX11985]
Spike Duplicate Lab ID: 1411146
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176221001, 1176221002, 1176221003

Results by **SM21 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	3.88	97	4	3.95	99	(75-125)	1.60	(< 25)

Batch Information

Analytical Batch: **WDA4055**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **NEG**

Prep Batch: **WXX11985**
Prep Method: **METHOD**
Prep Date/Time: **09/06/2017 19:00**
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: 1176190001
MS Sample ID: 1411147 MS
MSD Sample ID: 1411148 MSD

Analysis Date: 09/07/2017 12:43
Analysis Date: 09/07/2017 12:44
Analysis Date: 09/07/2017 12:45
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176221001, 1176221002, 1176221003

Results by **SM21 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	2.15	4.00	5.27	78	4.00	5.36	80	75-125	1.80	(< 25)

Batch Information

Analytical Batch: WDA4055
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: NEG
Analytical Date/Time: 9/7/2017 12:44:30PM

Prep Batch: WXX11985
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/6/2017 7:00:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/14/2017 4:14:04PM

Method Blank

Blank ID: MB for HBN 1768094 [WXX/11990]
Blank Lab ID: 1412003

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176221001, 1176221002, 1176221003

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0620	mg/L
Nitrite-N	0.100U	0.200	0.0620	mg/L
Total Nitrate/Nitrite-N	0.100U	0.200	0.0620	mg/L

Batch Information

Analytical Batch: WIC5684
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: NEG
Analytical Date/Time: 9/7/2017 4:49:43PM

Prep Batch: WXX11990
Prep Method: METHOD
Prep Date/Time: 9/7/2017 3:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176221 [WXX11990]
Blank Spike Lab ID: 1412004
Date Analyzed: 09/07/2017 17:07

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176221001, 1176221002, 1176221003

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.16	103	(90-110)
Nitrite-N	5	5.14	103	(90-110)
Total Nitrate/Nitrite-N	10	10.3	103	(90-110)

Batch Information

Analytical Batch: **WIC5684**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **NEG**

Prep Batch: **WXX11990**
Prep Method: **METHOD**
Prep Date/Time: **09/07/2017 15:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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SGS

SGS North America Inc.
CHAIN OF CUSTODY RECORD

1176221

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

Page ____ of ____

Section 1

CLIENT: Stantec

CONTACT: John Marshall PHONE NO: 902-231-0600

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

REPORTS TO: E-MAIL: john.marshall@stantec.com

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	Section 3 # CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative: Na2SO4	1	H2SO4						REMARKS/ LOC ID
							Fecal Coliform	Nitrate/Nitrite	TKN/Ammonia						
(1)A-C	MW6	08/31/17	0944		3	G	1	1	1						
(2)A-C	MW8	08/31/17	1049		3	G	1	1	1						
(3)A-C	MW14	08/31/17	1137		3	G	1	1	1						

Section 5

	Date	Time	
Relinquished By: (1)	8/31/17	1634	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	8/31/17	1634	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID: _____

Data Deliverable Requirements:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.0 -0.1 = 2.9

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

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

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

e-Sample Receipt Form

SGS Workorder #: **1176221**

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	
Yes — **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 3.0 °C Therm. ID: D41
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
If samples received without a temperature blank, the "cooler temperature" will be documented in lieu of the temperature blank & "**COOLER TEMP**" will be noted to the right. In cases where neither a temp blank nor cooler temp can be obtained, note "ambient" or "chilled".		
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.		
Were analyses requested unambiguous? (i.e., method is specified for analyses with >1 option for analysis)	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
1176221001-A	Na2S2O3 for Chlorine Redu	OK			
1176221001-B	No Preservative Required	OK			
1176221001-C	H2SO4 to pH < 2	OK			
1176221002-A	Na2S2O3 for Chlorine Redu	OK			
1176221002-B	No Preservative Required	OK			
1176221002-C	H2SO4 to pH < 2	OK			
1176221003-A	Na2S2O3 for Chlorine Redu	OK			
1176221003-B	No Preservative Required	OK			
1176221003-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.
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.