Laboratory Report of Analysis

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

Report Number: **1176871**

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: **1176871**
Project Name/Site: **Wasilla WWTP Surface**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

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

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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) for which SGS North America Inc. is Provisionally Certified as of 9/21/2017 & 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	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	1176871001	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-2	1176871002	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-3	1176871003	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-4	1176871004	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
Duplicate 1	1176871005	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-5	1176871006	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-6	1176871007	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-7	1176871008	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-8	1176871009	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-9	1176871010	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-10	1176871011	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)
SW-11	1176871012	09/26/2017	09/26/2017	Water (Surface, Eff., Ground)

Method	Method Description
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Flow Injection 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: 1176871001
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	7.83	mg/L
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.849J	mg/L
Total Phosphorus	0.223	mg/L
Total Suspended Solids	51.0	mg/L

Client Sample ID: **SW-2**
Lab Sample ID: 1176871002
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	9.87	mg/L
E. Coli	1	MPN/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	1.06	mg/L
Total Phosphorus	0.254	mg/L
Total Suspended Solids	281	mg/L

Client Sample ID: **SW-3**
Lab Sample ID: 1176871003
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	3.74	mg/L
E. Coli	3	MPN/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.551J	mg/L
Total Phosphorus	0.249	mg/L
Total Suspended Solids	188	mg/L

Client Sample ID: **SW-4**
Lab Sample ID: 1176871004
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	3.21	mg/L
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.413J	mg/L
Total Phosphorus	0.116J	mg/L
Total Suspended Solids	22.0	mg/L

Client Sample ID: **Duplicate 1**
Lab Sample ID: 1176871005
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	3.04	mg/L
Total Coliform	548	MPN/100mL
Total Phosphorus	0.113J	mg/L
Total Suspended Solids	17.0	mg/L

Client Sample ID: **SW-5**
Lab Sample ID: 1176871006
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	5.79	mg/L
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.666J	mg/L
Total Phosphorus	0.0940J	mg/L
Total Suspended Solids	35.0	mg/L

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Detectable Results Summary

Client Sample ID: **SW-6**
Lab Sample ID: 1176871007
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	3.36	mg/L
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.610J	mg/L
Total Phosphorus	0.204	mg/L
Total Suspended Solids	82.0	mg/L

Client Sample ID: **SW-7**
Lab Sample ID: 1176871008
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.15	mg/L
E. Coli	3	MPN/100mL
Fecal Coliform	3.0	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.660J	mg/L
Total Phosphorus	0.199J	mg/L
Total Suspended Solids	99.0	mg/L

Client Sample ID: **SW-8**
Lab Sample ID: 1176871009
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	8.19	mg/L
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.482J	mg/L
Total Phosphorus	0.151J	mg/L
Total Suspended Solids	183	mg/L

Client Sample ID: **SW-9**
Lab Sample ID: 1176871010
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	4.89	mg/L
Fecal Coliform	1.0	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.416J	mg/L
Total Phosphorus	0.198J	mg/L
Total Suspended Solids	48.0	mg/L

Client Sample ID: **SW-10**
Lab Sample ID: 1176871011
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	3.10	mg/L
E. Coli	8	MPN/100mL
Fecal Coliform	14	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.390J	mg/L
Total Phosphorus	0.296	mg/L
Total Suspended Solids	54.0	mg/L

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Detectable Results Summary

Client Sample ID: **SW-11**
Lab Sample ID: 1176871012

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Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	4.09	mg/L
Total Coliform	GT2420	MPN/100mL
Total Phosphorus	0.147J	mg/L
Total Suspended Solids	209	mg/L

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871001
Lab Project ID: 1176871

Collection Date: 09/26/17 09:33
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	7.83		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871001-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		09/26/17 17:32

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 17:32
Container ID: 1176871001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871001-D

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Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871001
Lab Project ID: 1176871

Collection Date: 09/26/17 09:33
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	51.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.849 J		1.00	0.310	mg/L	1		09/28/17 17:06

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:06
Container ID: 1176871001-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:25
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:25

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:25
Container ID: 1176871001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.223		0.200	0.0620	mg/L	1		09/27/17 21:06

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-1**

Client Sample ID: **SW-1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871001
Lab Project ID: 1176871

Collection Date: 09/26/17 09:33
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:06
Container ID: 1176871001-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871002
Lab Project ID: 1176871

Collection Date: 09/26/17 10:00
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	9.87		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871002-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		09/26/17 17:57

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 17:57
Container ID: 1176871002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1		1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871002-D

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871002
Lab Project ID: 1176871

Collection Date: 09/26/17 10:00
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	281		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.06		1.00	0.310	mg/L	1		09/28/17 17:08

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:08
Container ID: 1176871002-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:27
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:27

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:27
Container ID: 1176871002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.254		0.200	0.0620	mg/L	1		09/27/17 21:07

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-2**

Client Sample ID: **SW-2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871002
Lab Project ID: 1176871

Collection Date: 09/26/17 10:00
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:07
Container ID: 1176871002-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 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: 1176871003
Lab Project ID: 1176871

Collection Date: 09/26/17 10:47
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.74		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871003-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		09/26/17 17:57

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 17:57
Container ID: 1176871003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871003-D

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871003
Lab Project ID: 1176871

Collection Date: 09/26/17 10:47
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	188		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.551 J		1.00	0.310	mg/L	1		09/28/17 17:09

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:09
Container ID: 1176871003-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:29
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:29

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:29
Container ID: 1176871003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.249		0.200	0.0620	mg/L	1		09/27/17 21:08

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-3**

Client Sample ID: **SW-3**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871003
Lab Project ID: 1176871

Collection Date: 09/26/17 10:47
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:08
Container ID: 1176871003-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

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Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871004
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.21		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871004-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871004-D

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871004
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	22.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.413 J		1.00	0.310	mg/L	1		09/28/17 17:13

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:13
Container ID: 1176871004-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:30
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:30

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:30
Container ID: 1176871004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.116 J		0.200	0.0620	mg/L	1		09/27/17 21:10

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-4**

Client Sample ID: **SW-4**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871004
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:10
Container ID: 1176871004-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

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

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871005
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.04		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871005-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	548		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871005-D

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871005
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	17.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871005-E

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		09/28/17 17:14

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:14
Container ID: 1176871005-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:43
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:43

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:43
Container ID: 1176871005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.113 J		0.200	0.0620	mg/L	1		09/27/17 21:11

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **Duplicate 1**

Client Sample ID: **Duplicate 1**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871005
Lab Project ID: 1176871

Collection Date: 09/26/17 12:05
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:11
Container ID: 1176871005-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871006
Lab Project ID: 1176871

Collection Date: 09/26/17 11:41
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	5.79		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871006-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871006-D

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871006
Lab Project ID: 1176871

Collection Date: 09/26/17 11:41
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	35.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.666 J		1.00	0.310	mg/L	1		09/28/17 17:16

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:16
Container ID: 1176871006-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:44
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:44

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:44
Container ID: 1176871006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0940 J		0.200	0.0620	mg/L	1		09/27/17 21:12

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-5**

Client Sample ID: **SW-5**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871006
Lab Project ID: 1176871

Collection Date: 09/26/17 11:41
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:12
Container ID: 1176871006-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871007
Lab Project ID: 1176871

Collection Date: 09/26/17 12:24
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.36		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871007-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871007-D

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871007
Lab Project ID: 1176871

Collection Date: 09/26/17 12:24
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	82.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.610 J		1.00	0.310	mg/L	1		09/28/17 17:17

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:17
Container ID: 1176871007-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:46
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:46

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:46
Container ID: 1176871007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.204		0.200	0.0620	mg/L	1		09/27/17 21:13

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-6**

Client Sample ID: **SW-6**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871007
Lab Project ID: 1176871

Collection Date: 09/26/17 12:24
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:13
Container ID: 1176871007-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871008
Lab Project ID: 1176871

Collection Date: 09/26/17 12:40
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.15		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	3.0		1.00	1.00	col/100mL	1		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	3		1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871008-D

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871008
Lab Project ID: 1176871

Collection Date: 09/26/17 12:40
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	99.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.660 J		1.00	0.310	mg/L	1		09/28/17 17:18

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:18
Container ID: 1176871008-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:48
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:48

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:48
Container ID: 1176871008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.199 J		0.200	0.0620	mg/L	1		09/27/17 21:14

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-7**

Client Sample ID: **SW-7**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871008
Lab Project ID: 1176871

Collection Date: 09/26/17 12:40
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:14
Container ID: 1176871008-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871009
Lab Project ID: 1176871

Collection Date: 09/26/17 13:49
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	8.19		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871009-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871009-D

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871009
Lab Project ID: 1176871

Collection Date: 09/26/17 13:49
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	183		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.482 J		1.00	0.310	mg/L	1		09/28/17 17:19

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:19
Container ID: 1176871009-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:50
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:50

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.151 J		0.200	0.0620	mg/L	1		09/27/17 21:14

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-8**

Client Sample ID: **SW-8**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871009
Lab Project ID: 1176871

Collection Date: 09/26/17 13:49
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:14
Container ID: 1176871009-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

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Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871010
Lab Project ID: 1176871

Collection Date: 09/26/17 14:02
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.89		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871010-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.0		1.00	1.00	col/100mL	1		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871010-D

Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871010
Lab Project ID: 1176871

Collection Date: 09/26/17 14:02
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	48.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.416 J		1.00	0.310	mg/L	1		09/28/17 17:21

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:21
Container ID: 1176871010-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:51
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:51

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:51
Container ID: 1176871010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.198 J		0.200	0.0620	mg/L	1		09/27/17 21:15

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-9**

Client Sample ID: **SW-9**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871010
Lab Project ID: 1176871

Collection Date: 09/26/17 14:02
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:15
Container ID: 1176871010-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871011
Lab Project ID: 1176871

Collection Date: 09/26/17 14:17
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.10		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871011-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	14		1.00	1.00	col/100mL	1		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	8		1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871011-D

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871011
Lab Project ID: 1176871

Collection Date: 09/26/17 14:17
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	54.0		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.390 J		1.00	0.310	mg/L	1		09/28/17 17:22

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:22
Container ID: 1176871011-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:53
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:53

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:53
Container ID: 1176871011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.296		0.200	0.0620	mg/L	1		09/27/17 21:16

Print Date: 10/02/2017 3:35:02PM

J flagging is activated

Results of **SW-10**

Client Sample ID: **SW-10**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871011
Lab Project ID: 1176871

Collection Date: 09/26/17 14:17
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:16
Container ID: 1176871011-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871012
Lab Project ID: 1176871

Collection Date: 09/26/17 13:08
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.09		2.00	2.00	mg/L	1		09/27/17 17:41

Batch Information

Analytical Batch: BOD5865
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/27/17 17:41
Container ID: 1176871012-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		09/26/17 18:54

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/26/17 18:54
Container ID: 1176871012-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/26/17 21:50
Total Coliform	>2420		1	1	MPN/100m	1		09/26/17 21:50

Batch Information

Analytical Batch: BTF16010
Analytical Method: SM21 9223B
Analyst: K.W
Analytical Date/Time: 09/26/17 21:50
Container ID: 1176871012-D

Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871012
Lab Project ID: 1176871

Collection Date: 09/26/17 13:08
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	209		10.0	3.10	mg/L	1		09/26/17 18:47

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/26/17 18:47
Container ID: 1176871012-E

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		09/28/17 17:23

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 09/28/17 17:23
Container ID: 1176871012-C

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 09/27/17 21:00
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:55
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/26/17 21:55

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/26/17 21:55
Container ID: 1176871012-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.147 J		0.200	0.0620	mg/L	1		09/27/17 21:17

Print Date: 10/02/2017 3:35:02PM

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Results of **SW-11**

Client Sample ID: **SW-11**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176871012
Lab Project ID: 1176871

Collection Date: 09/26/17 13:08
Received Date: 09/26/17 17:11
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/27/17 21:17
Container ID: 1176871012-C

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/27/17 18:10
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1769239 [BOD/5865]
Blank Lab ID: 1416395

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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: BOD5865
Analytical Method: SM21 5210B
Instrument:
Analyst: AKD
Analytical Date/Time: 9/27/2017 5:41:00PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176871 [BOD5865]
Blank Spike Lab ID: 1416396
Date Analyzed: 09/27/2017 17:41

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	186	94	(84.6-115.4

Batch Information

Analytical Batch: **BOD5865**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **AKD**

Print Date: 10/02/2017 3:35:09PM

Method Blank

Blank ID: MB for HBN 1769160 [BTF/16008]
Blank Lab ID: 1416078

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2017 5:32:00PM

Print Date: 10/02/2017 3:35:11PM

Method Blank

Blank ID: MB for HBN 1769160 [BTF/16008]
Blank Lab ID: 1416079

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16008
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2017 6:54:00PM

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Method Blank

Blank ID: MB for HBN 1769172 [BTF/16010]
Blank Lab ID: 1416082

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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: BTF16010
Analytical Method: SM21 9223B
Instrument:
Analyst: K.W
Analytical Date/Time: 9/26/2017 9:50:00PM

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Method Blank

Blank ID: MB for HBN 1769169 [STS/5666]
Blank Lab ID: 1416071

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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: STS5666
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/26/2017 6:47:27PM

Print Date: 10/02/2017 3:35:17PM

Duplicate Sample Summary

Original Sample ID: 1176868001
Duplicate Sample ID: 1416074
QC for Samples:

Analysis Date: 09/26/2017 18:47
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	60.0	58.0	mg/L	3.40	(< 5)

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/02/2017 3:35:19PM

Duplicate Sample Summary

Original Sample ID: 1176868002
Duplicate Sample ID: 1416075

Analysis Date: 09/26/2017 18:47
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	ND	5.00U	mg/L	0.00	(< 5)

Batch Information

Analytical Batch: STS5666
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/02/2017 3:35:19PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176871 [STS5666]
Blank Spike Lab ID: 1416072
Date Analyzed: 09/26/2017 18:47

Spike Duplicate ID: LCSD for HBN 1176871 [STS5666]
Spike Duplicate Lab ID: 1416073
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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	47.6	95	50	49.5	99	(75-125)	3.90	(< 5)

Batch Information

Analytical Batch: **STS5666**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1769213 (WFI/2600) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1416307

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2017 9:20:21PM

Print Date: 10/02/2017 3:35:22PM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176871 [WFI2600]
Blank Spike Lab ID: 1416289
Date Analyzed: 09/26/2017 21:18

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.45	98	(70-130)
Nitrite-N	2.5	2.54	102	(90-110)
Total Nitrate/Nitrite-N	5	4.99	100	(90-110)

Batch Information

Analytical Batch: **WFI2600**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

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Matrix Spike Summary

Original Sample ID: 1176850001
MS Sample ID: 1416287 MS
MSD Sample ID: 1416288 MSD

Analysis Date: 09/26/2017 21:32
Analysis Date: 09/26/2017 21:34
Analysis Date: 09/26/2017 21:36
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.552	2.50	3.18	105	2.50	3.12	103	70-130	1.80	(< 25)
Nitrite-N	0.100U	2.50	2.61	105	2.50	2.61	104	90-110	0.27	(< 25)

Batch Information

Analytical Batch: WFI2600
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/26/2017 9:34:22PM

Print Date: 10/02/2017 3:35:25PM

Method Blank

Blank ID: MB for HBN 1769278 [WXX/12027]
Blank Lab ID: 1416589

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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

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

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 9/27/2017 8:59:10PM

Prep Batch: WXX12027
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/27/2017 6:10:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176871 [WXX12027]
Blank Spike Lab ID: 1416590
Date Analyzed: 09/27/2017 21:00

Spike Duplicate ID: LCSD for HBN 1176871 [WXX12027]
Spike Duplicate Lab ID: 1416591
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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	0.209	105	0.2	0.192	96	(85-115)	8.80	(< 25)

Batch Information

Analytical Batch: **WDA4074**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **AYC**

Prep Batch: **WXX12027**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/27/2017 18:10**
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: 1176647001
MS Sample ID: 1416593 MS
MSD Sample ID: 1416594 MSD

Analysis Date: 09/27/2017 21:02
Analysis Date: 09/27/2017 21:03
Analysis Date: 09/27/2017 21:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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	0.0266	0.200	.223	98	0.200	0.221	97	75-125	0.90	(< 25)

Batch Information

Analytical Batch: WDA4074
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 9/27/2017 9:03:05PM

Prep Batch: WXX12027
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/27/2017 6:10:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2017 3:35:28PM

Method Blank

Blank ID: MB for HBN 1769306 [WXX/12028]
Blank Lab ID: 1416683

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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: WDA4075
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 9/28/2017 4:57:48PM

Prep Batch: WXX12028
Prep Method: METHOD
Prep Date/Time: 9/27/2017 9:00:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176871 [WXX12028]
Blank Spike Lab ID: 1416684
Date Analyzed: 09/28/2017 16:59

Spike Duplicate ID: LCSD for HBN 1176871 [WXX12028]
Spike Duplicate Lab ID: 1416685
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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	4.06	102	4	4.10	103	(75-125)	0.91	(< 25)

Batch Information

Analytical Batch: **WDA4075**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **AYC**

Prep Batch: **WXX12028**
Prep Method: **METHOD**
Prep Date/Time: **09/27/2017 21:00**
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: 1176647001
MS Sample ID: 1416686 MS
MSD Sample ID: 1416687 MSD

Analysis Date: 09/28/2017 17:01
Analysis Date: 09/28/2017 17:03
Analysis Date: 09/28/2017 17:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176871001, 1176871002, 1176871003, 1176871004, 1176871005, 1176871006, 1176871007, 1176871008, 1176871009, 1176871010, 1176871011, 1176871012

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	4.5	112	4.00	4.49	112	75-125	0.13	(< 25)

Batch Information

Analytical Batch: WDA4075
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 9/28/2017 5:03:03PM

Prep Batch: WXX12028
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/27/2017 9:00:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/02/2017 3:35:33PM

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1176871

Locations Nationwide
Alaska Maryland
New Jersey New York
North Carolina

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

Page 1 of 1

Section 1

CLIENT: Stantec Consulting

CONTACT: John Marshall — PHONE #: 907-266-1108

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

REPORTS TO: John Marshall — E-MAIL: John.Marshall@stantec.com

INVOICE TO: Stantec Consulting — QUOTE #: — P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Pres: Type: Comp / Grab / MI (Multi-incremental)	None: BOD	None: T-Phos, TKN	None: Total Coli P/A - Quantitray	None: TSS	None: Nitrate/Nitrite	Na_2SO_3: FC	REMARKS/ LOC ID
1 A-E	SW-1	09/26/17	0933	W	6		1	1	1	1	1	1	
2 A-E	SW-2	09/26/17	1000	W	6		1	1	1	1	1	1	
3 A-E	SW-3	09/26/17	1047	W	6		1	1	1	1	1	1	
4 A-E	SW-4	09/26/17	1205	W	6		1	1	1	1	1	1	
5 A-E	Duplicate 1	09/26/17	1205	W	6		1	1	1	1	1	1	

Section 5

	Date	Time	
Relinquished By: (1)	9/26/17	1711	Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	9/26/17	17:11	Received For Laboratory By:

Section 4

DOD Project? Yes No

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 3.1 D40 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: (Check) Hand Delivered [ ] Commerical Delivered [X]

[ ] 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

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F083-Blank_COC_Template_2015-03-19

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Page 1 of 1

Section 1

CLIENT: Stantec Consulting

CONTACT: John Marshall PHONE #: 907-266-1108

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

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

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

Section 3 — Preservative

Section 2 RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Pres: Type: Comp / Grab / MI (Multi-incremental)	BOD (None)	T-Phos, TKN (H2SO4)	Total Coli P/A - Quantitray (Na2SO3)	TSS (HDPE)	Nitrate/Nitrite (HDPE)	FC (HDPE, Na2S2O3)	REMARKS/ LOC ID
6 A-E	SW-5	09/26/17	1141	W	6		1	1	1	1	1	1	
7 A-E	SW-6	09/26/17	1224	W	6		1	1	1	1	1	1	
8 A-E	SW-7	09/26/17	1240	W	6		1	1	1	1	1	1	
9 A-E	SW-8	09/26/17	1349	W	6		1	1	1	1	1	1	
10 A-E	SW-9	09/26/17	1402	W	6		1	1	1	1	1	1	

Section 5

	Date	Time	
Relinquished By: (1)	9/26/17	1712	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	9/26/17	17:11	Received For Laboratory By:

Section 4

DOD Project? Yes (No)

Data Deliverable Requirements:

Cooler ID:

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.8/D24 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: (Check) Hand Delivered [ ] Commerical Delivered [ ]

[ ] 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

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

Page 1 of 1

Section 1

CLIENT: Stantec Consulting	
CONTACT: John Marshall	**PHONE #:** 907-266-1108
PROJECT NAME: Wasilla WWTP Surface	**Project/ PWSID/ PERMIT#:**
REPORTS TO: John Marshall	**E-MAIL:** John.Marshall@Stantec.com
INVOICE TO: Stantec Consulting	**QUOTE #:** **P.O. #:**

Section 3 — **Preservative**

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Pres: Type: Comp (Grab) MI (Multi-incremental)	None: BOD	None: T-Phos, TKN	None: Total Coli P/A - Quantitray	H2SO4: TSS	Na2SO3: Nitrate/Nitrite	HDPE: FC	HDPE	HDPE	NaSO3		REMARKS/ LOC ID
(11) A-E	SW-10	09/26/17	1417	W	6		1	1	1	1	1	1					
(12) A-E	SW-11	09/26/17	1308	W	6		1	1	1	1	1	1					

Section 5

	Date	Time	Received By:
Relinquished By: (1)	9/26/17	1714	
Relinquished By: (2)			
Relinquished By: (3)			
Relinquished By: (4)	9/26/17	1711	Received For Laboratory By:

Section 4

DOD Project? Yes (No)

Data Deliverable Requirements:

Cooler ID: _____

Requested Turnaround Time and/or Special Instructions:

Temp Blank °C: 2.9 D40 or Ambient [ ]

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

Delivery Method: (Check) Hand Delivered [ ] Commerical Delivered [X]

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e-Sample Receipt Form

SGS Workorder #: **1176871**

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	
N/A **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 3.1 °C Therm. ID: D40
	Yes	Cooler ID: 2 @ 2.8 °C Therm. ID: D24
	Yes	Cooler ID: 3 @ 2.9 °C Therm. ID: D40
		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)? **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):

Preserved nitrate disposed of in laboratory per client request. Unpreserved to be analyzed instead.

Sample Containers and Preservatives

Container Id	Preservative	Container Condition
1176871001-A	Na2S2O3 for Chlorine Redu	OK
1176871001-B	No Preservative Required	OK
1176871001-C	H2SO4 to pH < 2	OK
1176871001-D	Na2S2O3 for Chlorine Redu	OK
1176871001-E	No Preservative Required	OK
1176871002-A	Na2S2O3 for Chlorine Redu	OK
1176871002-B	No Preservative Required	OK
1176871002-C	H2SO4 to pH < 2	OK
1176871002-D	Na2S2O3 for Chlorine Redu	OK
1176871002-E	No Preservative Required	OK
1176871003-A	Na2S2O3 for Chlorine Redu	OK
1176871003-B	No Preservative Required	OK
1176871003-C	H2SO4 to pH < 2	OK
1176871003-D	Na2S2O3 for Chlorine Redu	OK
1176871003-E	No Preservative Required	OK
1176871004-A	Na2S2O3 for Chlorine Redu	OK
1176871004-B	No Preservative Required	OK
1176871004-C	H2SO4 to pH < 2	OK
1176871004-D	Na2S2O3 for Chlorine Redu	OK
1176871004-E	No Preservative Required	OK
1176871005-A	Na2S2O3 for Chlorine Redu	OK
1176871005-B	No Preservative Required	OK
1176871005-C	H2SO4 to pH < 2	OK
1176871005-D	Na2S2O3 for Chlorine Redu	OK
1176871005-E	No Preservative Required	OK
1176871006-A	Na2S2O3 for Chlorine Redu	OK
1176871006-B	No Preservative Required	OK
1176871006-C	H2SO4 to pH < 2	OK
1176871006-D	Na2S2O3 for Chlorine Redu	OK
1176871006-E	No Preservative Required	OK
1176871007-A	Na2S2O3 for Chlorine Redu	OK
1176871007-B	No Preservative Required	OK
1176871007-C	H2SO4 to pH < 2	OK
1176871007-D	Na2S2O3 for Chlorine Redu	OK
1176871007-E	No Preservative Required	OK
1176871008-A	Na2S2O3 for Chlorine Redu	OK
1176871008-B	No Preservative Required	OK
1176871008-C	H2SO4 to pH < 2	OK
1176871008-D	Na2S2O3 for Chlorine Redu	OK
1176871008-E	No Preservative Required	OK
1176871009-A	Na2S2O3 for Chlorine Redu	OK
1176871009-B	No Preservative Required	OK
1176871009-C	H2SO4 to pH < 2	OK
1176871009-D	Na2S2O3 for Chlorine Redu	OK
1176871009-E	No Preservative Required	OK
1176871010-A	Na2S2O3 for Chlorine Redu	OK
1176871010-B	No Preservative Required	OK
1176871010-C	H2SO4 to pH < 2	OK
1176871010-D	Na2S2O3 for Chlorine Redu	OK
1176871010-E	No Preservative Required	OK
1176871011-A	Na2S2O3 for Chlorine Redu	OK
1176871011-B	No Preservative Required	OK
1176871011-C	H2SO4 to pH < 2	OK
1176871011-D	Na2S2O3 for Chlorine Redu	OK
1176871011-E	No Preservative Required	OK
1176871012-A	Na2S2O3 for Chlorine Redu	OK
1176871012-B	No Preservative Required	OK
1176871012-C	H2SO4 to pH < 2	OK
1176871012-D	Na2S2O3 for Chlorine Redu	OK
1176871012-E	No Preservative Required	OK

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition

Container Condition Glossary

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

OK - The container was received at an acceptable pH for the analysis requested.
BU - The container was received with headspace greater than 6mm.
DM- The container was received damaged.
FR- The container was received frozen and not usable for Bacteria or BOD analyses.
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: **1176902**

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: **1176902**
Project Name/Site: **Wasilla WWTP Surface**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

1176882001DUP (1416427) DUP

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

1176882002DUP (1416428) 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.

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

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

Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. 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) for which SGS North America Inc. is Provisionally Certified as of 9/21/2017 & 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	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.

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW-12	1176902001	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-13	1176902002	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-14	1176902003	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-15	1176902004	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-16	1176902005	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-17	1176902006	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
SW-18	1176902007	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)
Duplicate 2	1176902008	09/27/2017	09/27/2017	Water (Surface, Eff., Ground)

Method	Method Description
SM21 5210B	Biochemical Oxygen Demand SM21 5210B
SM21 9222D	Fecal Coliform (MF)
SM21 4500NO3-F	Flow Injection 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-12**
Lab Sample ID: 1176902001
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	5.77	mg/L
E. Coli	33	MPN/100mL
Fecal Coliform	3.0	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Phosphorus	0.393	mg/L
Total Suspended Solids	45.2	mg/L

Client Sample ID: **SW-13**
Lab Sample ID: 1176902002
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.78	mg/L
E. Coli	12	MPN/100mL
Fecal Coliform	7.0	col/100mL
Total Coliform	613	MPN/100mL
Total Kjeldahl Nitrogen	0.673J	mg/L
Total Phosphorus	0.0640J	mg/L
Total Suspended Solids	31.4	mg/L

Client Sample ID: **SW-14**
Lab Sample ID: 1176902003
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	6.73	mg/L
E. Coli	16	MPN/100mL
Fecal Coliform	11	col/100mL
Total Coliform	GT2420	MPN/100mL
Total Kjeldahl Nitrogen	0.314J	mg/L
Total Phosphorus	0.674	mg/L
Total Suspended Solids	188	mg/L

Client Sample ID: **SW-15**
Lab Sample ID: 1176902004
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	2.90	mg/L
E. Coli	6	MPN/100mL
Fecal Coliform	4.0	col/100mL
Total Coliform	579	MPN/100mL
Total Phosphorus	0.0531	mg/L
Total Suspended Solids	83.4	mg/L

Client Sample ID: **SW-16**
Lab Sample ID: 1176902005
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
Biochemical Oxygen Demand	11.5	mg/L
Total Coliform	GT2420	MPN/100mL
Total Phosphorus	1.22	mg/L
Total Suspended Solids	806	mg/L

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Detectable Results Summary

Client Sample ID: **SW-17**
Lab Sample ID: 1176902006
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
E. Coli	47	MPN/100mL
Fecal Coliform	18	col/100mL
Total Coliform	980	MPN/100mL
Nitrate-N	2.22	mg/L
Total Kjeldahl Nitrogen	0.462J	mg/L
Total Phosphorus	0.214	mg/L
Total Suspended Solids	0.909J	mg/L

Client Sample ID: **SW-18**
Lab Sample ID: 1176902007
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
E. Coli	9	MPN/100mL
Fecal Coliform	2.0	col/100mL
Total Coliform	2420	MPN/100mL
Nitrate-N	4.68	mg/L
Total Kjeldahl Nitrogen	0.490J	mg/L
Total Phosphorus	0.811	mg/L
Total Suspended Solids	1.94	mg/L

Client Sample ID: **Duplicate 2**
Lab Sample ID: 1176902008
Micro Lab-Provisionally Certified as of 092117
Waters Department

Parameter	Result	Units
E. Coli	12	MPN/100mL
Fecal Coliform	7.0	col/100mL
Total Coliform	1553	MPN/100mL
Nitrate-N	4.69	mg/L
Total Kjeldahl Nitrogen	0.450J	mg/L
Total Phosphorus	0.803	mg/L
Total Suspended Solids	1.25	mg/L

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Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902001
Lab Project ID: 1176902

Collection Date: 09/27/17 09:19
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	5.77		2.00	2.00	mg/L	1		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	3.0		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	33		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	>2420		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902001-D

Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902001
Lab Project ID: 1176902

Collection Date: 09/27/17 09:19
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	45.2		2.00	0.620	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	5.00 U		10.0	3.10	mg/L	1		10/04/17 18:00

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:00
Container ID: 1176902001-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:28
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:28

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:28
Container ID: 1176902001-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.393		0.200	0.0620	mg/L	1		10/03/17 15:24

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-12**

Client Sample ID: **SW-12**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902001
Lab Project ID: 1176902

Collection Date: 09/27/17 09:19
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:24
Container ID: 1176902001-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902002
Lab Project ID: 1176902

Collection Date: 09/27/17 09:36
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.78		2.00	2.00	mg/L	1		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	7.0		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	12		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	613		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902002-D

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902002
Lab Project ID: 1176902

Collection Date: 09/27/17 09:36
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	31.4		2.00	0.620	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.673 J		1.00	0.310	mg/L	1		10/04/17 18:01

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:01
Container ID: 1176902002-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:30
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:30

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:30
Container ID: 1176902002-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0640 J		0.100	0.0310	mg/L	1		10/03/17 15:25

Results of **SW-13**

Client Sample ID: **SW-13**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902002
Lab Project ID: 1176902

Collection Date: 09/27/17 09:36
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:25
Container ID: 1176902002-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902003
Lab Project ID: 1176902

Collection Date: 09/27/17 10:27
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	6.73		2.00	2.00	mg/L	1		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	11		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	16		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	>2420		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902003-D

Print Date: 10/05/2017 9:46:03AM

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Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902003
Lab Project ID: 1176902

Collection Date: 09/27/17 10:27
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	188		3.33	1.03	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.314	J	1.00	0.310	mg/L	1		10/04/17 18:05

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:05
Container ID: 1176902003-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500	U	0.100	0.0300	mg/L	2		09/27/17 19:31
Nitrite-N	0.0500	U	0.100	0.0300	mg/L	2		09/27/17 19:31

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:31
Container ID: 1176902003-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.674		0.100	0.0310	mg/L	1		10/03/17 15:26

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-14**

Client Sample ID: **SW-14**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902003
Lab Project ID: 1176902

Collection Date: 09/27/17 10:27
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:26
Container ID: 1176902003-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902004
Lab Project ID: 1176902

Collection Date: 09/27/17 10:11
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.90		2.00	2.00	mg/L	1		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	4.0		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	6		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	579		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902004-D

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902004
Lab Project ID: 1176902

Collection Date: 09/27/17 10:11
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	83.4		2.00	0.620	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U		1.00	0.310	mg/L	1		10/04/17 18:07

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:07
Container ID: 1176902004-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:33
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:33

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:33
Container ID: 1176902004-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0531		0.0200	0.00620	mg/L	1		10/03/17 15:27

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-15**

Client Sample ID: **SW-15**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902004
Lab Project ID: 1176902

Collection Date: 09/27/17 10:11
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:27
Container ID: 1176902004-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902005
Lab Project ID: 1176902

Collection Date: 09/27/17 09:50
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	11.5		2.00	2.00	mg/L	1		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902005-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		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	1	U	1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	>2420		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902005-D

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902005
Lab Project ID: 1176902

Collection Date: 09/27/17 09:50
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	806		4.00	1.24	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	5.00 U		10.0	3.10	mg/L	1		10/04/17 18:11

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:11
Container ID: 1176902005-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:35
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:35

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:35
Container ID: 1176902005-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	1.22		0.200	0.0620	mg/L	1		10/03/17 15:28

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-16**

Client Sample ID: **SW-16**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902005
Lab Project ID: 1176902

Collection Date: 09/27/17 09:50
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:28
Container ID: 1176902005-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

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Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902006
Lab Project ID: 1176902

Collection Date: 09/27/17 11:45
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

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		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	18		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	47		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	980		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902006-D

Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902006
Lab Project ID: 1176902

Collection Date: 09/27/17 11:45
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	0.909	J	1.01	0.313	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902006-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.462	J	1.00	0.310	mg/L	1		10/04/17 18:12

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:12
Container ID: 1176902006-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	2.22		0.100	0.0300	mg/L	2		09/27/17 19:37
Nitrite-N	0.0500	U	0.100	0.0300	mg/L	2		09/27/17 19:37

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:37
Container ID: 1176902006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.214		0.0200	0.00620	mg/L	1		10/03/17 15:29

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-17**

Client Sample ID: **SW-17**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902006
Lab Project ID: 1176902

Collection Date: 09/27/17 11:45
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:29
Container ID: 1176902006-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902007
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

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		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.0		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	9		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	2420		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902007-D

Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902007
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.94		1.08	0.333	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902007-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.490 J		1.00	0.310	mg/L	1		10/04/17 18:13

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:13
Container ID: 1176902007-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	4.68		0.100	0.0300	mg/L	2		09/27/17 19:47
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:47

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:47
Container ID: 1176902007-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.811		0.200	0.0620	mg/L	10		10/03/17 15:54

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **SW-18**

Client Sample ID: **SW-18**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902007
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:54
Container ID: 1176902007-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902008
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Micro Lab-Provisionally Certified as of 092117**

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		09/28/17 12:08

Batch Information

Analytical Batch: BOD5866
Analytical Method: SM21 5210B
Analyst: AKD
Analytical Date/Time: 09/28/17 12:08
Container ID: 1176902008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	7.0		1.00	1.00	col/100mL	1		09/27/17 16:37

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Analyst: K.W
Analytical Date/Time: 09/27/17 16:37
Container ID: 1176902008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	12		1	1	MPN/100m	1		09/27/17 16:41
Total Coliform	1553		1	1	MPN/100m	1		09/27/17 16:41

Batch Information

Analytical Batch: BTF16011
Analytical Method: SM21 9223B
Analyst: NRO
Analytical Date/Time: 09/27/17 16:41
Container ID: 1176902008-D

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902008
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1.25		1.04	0.323	mg/L	1		09/27/17 20:38

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/27/17 20:38
Container ID: 1176902008-B

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.450 J		1.00	0.310	mg/L	1		10/04/17 18:14

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Analyst: AYC
Analytical Date/Time: 10/04/17 18:14
Container ID: 1176902008-C

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/03/17 22:12
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	4.69		0.100	0.0300	mg/L	2		09/27/17 19:49
Nitrite-N	0.0500 U		0.100	0.0300	mg/L	2		09/27/17 19:49

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/27/17 19:49
Container ID: 1176902008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.803		0.200	0.0620	mg/L	10		10/03/17 15:55

Print Date: 10/05/2017 9:46:03AM

J flagging is activated

Results of **Duplicate 2**

Client Sample ID: **Duplicate 2**
Client Project ID: **Wasilla WWTP Surface**
Lab Sample ID: 1176902008
Lab Project ID: 1176902

Collection Date: 09/27/17 11:13
Received Date: 09/27/17 14:21
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 10/03/17 15:55
Container ID: 1176902008-C

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/02/17 19:33
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1769286 [BOD/5866]
Blank Lab ID: 1416615

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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: BOD5866
Analytical Method: SM21 5210B
Instrument:
Analyst: AKD
Analytical Date/Time: 9/28/2017 12:08:00PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [BOD5866]
Blank Spike Lab ID: 1416616
Date Analyzed: 09/28/2017 12:08

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	196	99	(84.6-115.4

Batch Information

Analytical Batch: **BOD5866**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **AKD**

Print Date: 10/05/2017 9:46:10AM

Method Blank

Blank ID: MB for HBN 1769230 [BTF/16011]
Blank Lab ID: 1416367

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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: BTF16011
Analytical Method: SM21 9223B
Instrument:
Analyst: NRO
Analytical Date/Time: 9/27/2017 4:41:00PM

Method Blank

Blank ID: MB for HBN 1769292 [BTF/16013]
Blank Lab ID: 1416641

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/27/2017 4:37:00PM

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Method Blank

Blank ID: MB for HBN 1769292 [BTF/16013]
Blank Lab ID: 1416642

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF16013
Analytical Method: SM21 9222D
Instrument:
Analyst: K.W
Analytical Date/Time: 9/27/2017 7:02:00PM

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Method Blank

Blank ID: MB for HBN 1769243 [STS/5669]
Blank Lab ID: 1416424

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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: STS5669
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/27/2017 8:38:40PM

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Duplicate Sample Summary

Original Sample ID: 1176882001
Duplicate Sample ID: 1416427
QC for Samples:

Analysis Date: 09/27/2017 20:38
Matrix: Water (Surface, Eff., Ground)

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	15.1	11.1	mg/L	30.90*	(< 5)

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/05/2017 9:46:20AM

Duplicate Sample Summary

Original Sample ID: 1176882002
Duplicate Sample ID: 1416428

Analysis Date: 09/27/2017 20:38
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	10.9	12.1	mg/L	11.10*	(< 5)

Batch Information

Analytical Batch: STS5669
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 10/05/2017 9:46:20AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [STS5669]
Blank Spike Lab ID: 1416425
Date Analyzed: 09/27/2017 20:38

Spike Duplicate ID: LCSD for HBN 1176902 [STS5669]
Spike Duplicate Lab ID: 1416426
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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	46.4	93	50	48.4	97	(75-125)	4.20	(< 5)

Batch Information

Analytical Batch: **STS5669**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1769245 (WFI/2601) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1416447

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2017 7:23:04PM

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Method Blank

Blank ID: MB for HBN 1769245 (WFI/2601) Matrix: Water (Surface, Eff., Ground)
Blank Lab ID: 1416449

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 4500NO3-F**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.0500U	0.100	0.0300	mg/L
Nitrite-N	0.0500U	0.100	0.0300	mg/L
Total Nitrate/Nitrite-N	0.0500U	0.100	0.0300	mg/L

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2017 8:19:05PM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [WFI2601]
Blank Spike Lab ID: 1416435
Date Analyzed: 09/27/2017 19:21

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.47	99	(70-130)
Nitrite-N	2.5	2.48	99	(90-110)
Total Nitrate/Nitrite-N	5	4.95	99	(90-110)

Batch Information

Analytical Batch: **WFI2601**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [WFI2601]
Blank Spike Lab ID: 1416448
Date Analyzed: 09/27/2017 20:17

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 4500NO3-F**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	2.5	2.54	102	(70-130)
Nitrite-N	2.5	2.35	94	(90-110)
Total Nitrate/Nitrite-N	5	4.89	98	(90-110)

Batch Information

Analytical Batch: **WFI2601**
Analytical Method: **SM21 4500NO3-F**
Instrument: **Astoria segmented flow**
Analyst: **AYC**

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Matrix Spike Summary

Original Sample ID: 1176902006
MS Sample ID: 1416431 MS
MSD Sample ID: 1416432 MSD

Analysis Date: 09/27/2017 19:37
Analysis Date: 09/27/2017 19:38
Analysis Date: 09/27/2017 19:40
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	2.22	2.50	4.65	97	2.50	4.68	99	70-130	0.78	(< 25)
Nitrite-N	0.0500U	2.50	2.55	102	2.50	2.53	101	90-110	0.65	(< 25)

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2017 7:38:49PM

Print Date: 10/05/2017 9:46:26AM

Matrix Spike Summary

Original Sample ID: 1176909001
MS Sample ID: 1416433 MS
MSD Sample ID: 1416434 MSD

Analysis Date: 09/27/2017 20:29
Analysis Date: 09/27/2017 20:31
Analysis Date: 09/27/2017 20:33
Matrix: Drinking Water

QC for Samples: 1176902007, 1176902008

Results by **SM21 4500NO3-F**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Nitrate/Nitrite-N	0.111	5.00	5.03	98	5.00	5.04	99	90-110	0.21	(< 25)

Batch Information

Analytical Batch: WFI2601
Analytical Method: SM21 4500NO3-F
Instrument: Astoria segmented flow
Analyst: AYC
Analytical Date/Time: 9/27/2017 8:31:20PM

Print Date: 10/05/2017 9:46:26AM

Method Blank

Blank ID: MB for HBN 1769506 [WXX/12035]
Blank Lab ID: 1417649

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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: WDA4080
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 10/3/2017 3:20:19PM

Prep Batch: WXX12035
Prep Method: SM21 4500P-B,E
Prep Date/Time: 10/2/2017 7:33:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [WXX12035]
Blank Spike Lab ID: 1417650
Date Analyzed: 10/03/2017 15:21

Spike Duplicate ID: LCSD for HBN 1176902 [WXX12035]
Spike Duplicate Lab ID: 1417651
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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	0.198	99	0.2	0.199	99	(85-115)	0.30	(< 25)

Batch Information

Analytical Batch: **WDA4080**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **AYC**

Prep Batch: **WXX12035**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **10/02/2017 19:33**
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: 1176902008
MS Sample ID: 1417652 MS
MSD Sample ID: 1417653 MSD

Analysis Date: 10/03/2017 15:55
Analysis Date: 10/03/2017 15:56
Analysis Date: 10/03/2017 15:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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	0.803	0.200	1.03	114	0.200	1.02	109	75-125	0.84	(< 25)

Batch Information

Analytical Batch: WDA4080
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 10/3/2017 3:56:08PM

Prep Batch: WXX12035
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 10/2/2017 7:33:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 10/05/2017 9:46:30AM

Method Blank

Blank ID: MB for HBN 1769617 [WXX/12038]
Blank Lab ID: 1417899

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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: WDA4083
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 10/4/2017 5:55:20PM

Prep Batch: WXX12038
Prep Method: METHOD
Prep Date/Time: 10/3/2017 10:12:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1176902 [WXX12038]
Blank Spike Lab ID: 1417900
Date Analyzed: 10/04/2017 17:56

Spike Duplicate ID: LCSD for HBN 1176902 [WXX12038]
Spike Duplicate Lab ID: 1417901
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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	3.81	95	4	3.81	95	(75-125)	0.13	(< 25)

Batch Information

Analytical Batch: **WDA4083**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **AYC**

Prep Batch: **WXX12038**
Prep Method: **METHOD**
Prep Date/Time: **10/03/2017 22:12**
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: 1176902002
MS Sample ID: 1417902 MS
MSD Sample ID: 1417903 MSD

Analysis Date: 10/04/2017 18:01
Analysis Date: 10/04/2017 18:03
Analysis Date: 10/04/2017 18:04
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1176902001, 1176902002, 1176902003, 1176902004, 1176902005, 1176902006, 1176902007, 1176902008

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	0.673J	4.00	4.71	101	4.00	4.55	97	75-125	3.30	(< 25)

Batch Information

Analytical Batch: WDA4083
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: AYC
Analytical Date/Time: 10/4/2017 6:03:13PM

Prep Batch: WXX12038
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 10/3/2017 10:12:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

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CHAIN OF CUSTODY RECORD

1176902

Locations Nationwide

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ew Jersey	New York
orth Carolina	Indiana
est Virgina	Kentucky

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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	# CONTAINERS	Type C = COMP, GRAB, Multi Incremental Soils	Preservative: X	X	H2SO4	Na2S2O3	Na2S2O3	X	H2SO4				REMARKS/ LOC ID
							BOD	TSS	T-Phos/TKN	Total Coli	EC	Nitrite/Nitrate	Total Nitrogen				
1 A-E	SW-12	09/27/17	0919	W	6		1	1	1	1	1	0	1				Take Nitrate/
2 A-E	SW-13	09/27/17	0936	W	6		1	1	1	1	1	0	1				Nitrite From
3 A-E	SW-14	09/27/17	1027	W	6		1	1	1	1	1	0	1				IL(TSS). Only
4 A-E	SW-15	09/27/17	1011	W	6		1	1	1	1	1	0	1				perform TN if
5 A-E	SW-16	09/27/17	0950	W	6		1	1	1	1	1	0	1				above cannot be
6 A-F	SW-17	09/27/17	1145	W	6		1	1	1	1	1	1	0				done for
7 A-F	SW-18	09/27/17	1113	W	6		1	1	1	1	1	1	0				SW-12 - SW-16
8 A-F	Duplicate 2	09/27/17	1113	W	6		1	1	1	1	1	1	0				

Section 5

	Date	Time	
Relinquished By: (1)			Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	9/27/17	1421	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: (1) 0.5 D20 2 4.7 D20 or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle) INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

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

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

e-Sample Receipt Form

SGS Workorder #: **1176902**

1 1 7 6 9 0 2

Review Criteria	Condition (Yes, No, N/A)	Exceptions Noted below
Chain of Custody / Temperature Requirements		Yes — Exemption permitted if sampler hand carries/delivers.
Were Custody Seals intact? Note # & location	N/A	Absent
COC accompanied samples?	Yes	
Yes **Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	No	Cooler ID: 1 @ 6.5 °C Therm. ID: D20
	Yes	Cooler ID: 2 @ 4.7 °C Therm. ID: D20
	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?	No	**Improper container received for unpreserved nitrate/nitrite (samples1-5), will use TSS container for the nitrate/nitrite analysis.**
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
1176902001-A	No Preservative Required	OK	1176902008-F	No Preservative Required	OK
1176902001-B	No Preservative Required	OK			
1176902001-C	H2SO4 to pH < 2	OK			
1176902001-D	Na2S2O3 for Chlorine Redu	OK			
1176902001-E	Na2S2O3 for Chlorine Redu	OK			
1176902002-A	No Preservative Required	OK			
1176902002-B	No Preservative Required	OK			
1176902002-C	H2SO4 to pH < 2	OK			
1176902002-D	Na2S2O3 for Chlorine Redu	OK			
1176902002-E	Na2S2O3 for Chlorine Redu	OK			
1176902003-A	No Preservative Required	OK			
1176902003-B	No Preservative Required	OK			
1176902003-C	H2SO4 to pH < 2	OK			
1176902003-D	Na2S2O3 for Chlorine Redu	OK			
1176902003-E	Na2S2O3 for Chlorine Redu	OK			
1176902004-A	No Preservative Required	OK			
1176902004-B	No Preservative Required	OK			
1176902004-C	H2SO4 to pH < 2	OK			
1176902004-D	Na2S2O3 for Chlorine Redu	OK			
1176902004-E	Na2S2O3 for Chlorine Redu	OK			
1176902005-A	No Preservative Required	OK			
1176902005-B	No Preservative Required	OK			
1176902005-C	H2SO4 to pH < 2	OK			
1176902005-D	Na2S2O3 for Chlorine Redu	OK			
1176902005-E	Na2S2O3 for Chlorine Redu	OK			
1176902006-A	No Preservative Required	OK			
1176902006-B	No Preservative Required	OK			
1176902006-C	H2SO4 to pH < 2	OK			
1176902006-D	Na2S2O3 for Chlorine Redu	OK			
1176902006-E	Na2S2O3 for Chlorine Redu	OK			
1176902006-F	No Preservative Required	OK			
1176902007-A	No Preservative Required	OK			
1176902007-B	No Preservative Required	OK			
1176902007-C	H2SO4 to pH < 2	OK			
1176902007-D	Na2S2O3 for Chlorine Redu	OK			
1176902007-E	Na2S2O3 for Chlorine Redu	OK			
1176902007-F	No Preservative Required	OK			
1176902008-A	No Preservative Required	OK			
1176902008-B	No Preservative Required	OK			
1176902008-C	H2SO4 to pH < 2	OK			
1176902008-D	Na2S2O3 for Chlorine Redu	OK			
1176902008-E	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.