Laboratory Report of Analysis

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

Report Number: **1194990**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1194990**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW1 (1194990001) PS

9223 – Quanti-Tray - Sample was also analyzed undiluted and showed 11 colonies of E.coli present.

SW3 (1194990003) PS

9223 – Quanti-Tray - Sample was also analyzed undiluted and showed 2 colonies of E.coli present.

SW4 (1194990004) PS

9223 – Quanti-Tray - Sample was also analyzed undiluted and showed 2 colonies of E.coli present.

SW9 (1194990009) PS

9223 – Quanti-Tray - Sample was also analyzed undiluted and showed 10 colonies of E.coli present.

1194990001DUP (1529355) DUP

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

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

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Laboratory Qualifiers

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

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

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

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW1	1194990001	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW2	1194990002	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW3	1194990003	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW4	1194990004	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW5	1194990005	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW6	1194990006	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW7	1194990007	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW8	1194990008	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW9	1194990009	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
SW10	1194990010	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)
DUP	1194990011	08/28/2019	08/28/2019	Water (Surface, Eff., Ground)

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

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Detectable Results Summary

Client Sample ID: **SW1**
Lab Sample ID: 1194990001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	6.03	mg/L
	Fecal Coliform	17	col/100mL
	Total Coliform	1960	MPN/100mL
Waters Department	Ammonia-N	0.279	mg/L
	Total Kjeldahl Nitrogen	0.955J	mg/L
	Total Phosphorus	0.637	mg/L
	Total Suspended Solids	1040	mg/L

Client Sample ID: **SW2**
Lab Sample ID: 1194990002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.20	mg/L
	E. Coli	10	MPN/100mL
	Fecal Coliform	50	col/100mL
	Total Coliform	3650	MPN/100mL
Waters Department	Ammonia-N	0.0690J	mg/L
	Total Kjeldahl Nitrogen	0.661J	mg/L
	Total Phosphorus	0.195	mg/L
	Total Suspended Solids	70.8	mg/L

Client Sample ID: **SW3**
Lab Sample ID: 1194990003

	Parameter	Result	Units
Microbiology Laboratory	Total Coliform	2910	MPN/100mL
Waters Department	Ammonia-N	0.101	mg/L
	Nitrate-N	9.59	mg/L
	Total Kjeldahl Nitrogen	0.871J	mg/L
	Total Nitrate/Nitrite-N	9.60	mg/L
	Total Phosphorus	0.819	mg/L
	Total Suspended Solids	39.2	mg/L

Client Sample ID: **SW4**
Lab Sample ID: 1194990004

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.90	mg/L
	Total Coliform	14140	MPN/100mL
Waters Department	Ammonia-N	0.0404J	mg/L
	Total Kjeldahl Nitrogen	0.605J	mg/L
	Total Phosphorus	0.384	mg/L
	Total Suspended Solids	56.7	mg/L

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Detectable Results Summary

Client Sample ID: **SW5**
Lab Sample ID: 1194990005

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.43	mg/L
	E. Coli	52	MPN/100mL
	Fecal Coliform	66	col/100mL
	Total Coliform	1733	MPN/100mL
Waters Department	Ammonia-N	0.0804J	mg/L
	Total Kjeldahl Nitrogen	0.499J	mg/L
	Total Phosphorus	0.0170J	mg/L
	Total Suspended Solids	7.27	mg/L

Client Sample ID: **SW6**
Lab Sample ID: 1194990006

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.42	mg/L
	E. Coli	25	MPN/100mL
	Fecal Coliform	20	col/100mL
	Total Coliform	1986	MPN/100mL
Waters Department	Ammonia-N	0.0561J	mg/L
	Total Kjeldahl Nitrogen	0.403J	mg/L
	Total Phosphorus	0.0148J	mg/L
	Total Suspended Solids	19.5	mg/L

Client Sample ID: **SW7**
Lab Sample ID: 1194990007

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.65	mg/L
	Fecal Coliform	10	col/100mL
	Total Coliform	2600	MPN/100mL
Waters Department	Ammonia-N	0.0560J	mg/L
	Total Kjeldahl Nitrogen	0.490J	mg/L
	Total Phosphorus	0.0740	mg/L
	Total Suspended Solids	49.4	mg/L

Client Sample ID: **SW8**
Lab Sample ID: 1194990008

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.95	mg/L
	E. Coli	105	MPN/100mL
	Fecal Coliform	120	col/100mL
	Total Coliform	2420	MPN/100mL
Waters Department	Ammonia-N	0.0727J	mg/L
	Total Kjeldahl Nitrogen	0.678J	mg/L
	Total Phosphorus	0.267	mg/L
	Total Suspended Solids	92.2	mg/L

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Detectable Results Summary

Client Sample ID: **SW9**
Lab Sample ID: 1194990009

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.27	mg/L
	Fecal Coliform	12	col/100mL
	Total Coliform	5170	MPN/100mL
Waters Department	Ammonia-N	0.0580J	mg/L
	Total Kjeldahl Nitrogen	0.630J	mg/L
	Total Phosphorus	0.124	mg/L
	Total Suspended Solids	105	mg/L

Client Sample ID: **SW10**
Lab Sample ID: 1194990010

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.83	mg/L
	E. Coli	40	MPN/100mL
	Fecal Coliform	40	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.0728J	mg/L
	Total Kjeldahl Nitrogen	0.557J	mg/L
	Total Phosphorus	0.120	mg/L
	Total Suspended Solids	98.6	mg/L

Client Sample ID: **DUP**
Lab Sample ID: 1194990011

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	4.21	mg/L
	E. Coli	60	MPN/100mL
	Fecal Coliform	830	col/100mL
	Total Coliform	1610	MPN/100mL
Waters Department	Ammonia-N	0.0841J	mg/L
	Total Kjeldahl Nitrogen	0.718J	mg/L
	Total Phosphorus	0.0287	mg/L
	Total Suspended Solids	157	mg/L

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Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990001
Lab Project ID: 1194990

Collection Date: 08/28/19 10:31
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	6.03		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	17		16.7	16.7	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	1960		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990001-B

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990001
Lab Project ID: 1194990

Collection Date: 08/28/19 10:31
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:36
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:36
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:36

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 19:36
Container ID: 1194990001-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1040		6.67	2.07	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990001-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.955	J	1.00	0.310	mg/L	1		09/17/19 19:54

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 19:54
Container ID: 1194990001-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.279		0.100	0.0310	mg/L	1		09/05/19 13:48

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW1**

Client Sample ID: **SW1**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990001
Lab Project ID: 1194990

Collection Date: 08/28/19 10:31
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:48
Container ID: 1194990001-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.637		0.100	0.0250	mg/L	1		09/16/19 23:32

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:32
Container ID: 1194990001-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990002
Lab Project ID: 1194990

Collection Date: 08/28/19 10:58
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.20		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	50		16.7	16.7	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10		10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	3650		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990002-B

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990002
Lab Project ID: 1194990

Collection Date: 08/28/19 10:58
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:55
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:55
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 19:55

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 19:55
Container ID: 1194990002-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	70.8		2.00	0.620	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990002-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.661	J	1.00	0.310	mg/L	1		09/17/19 19:56

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 19:56
Container ID: 1194990002-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0690	J	0.100	0.0310	mg/L	1		09/05/19 13:49

Results of **SW2**

Client Sample ID: **SW2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990002
Lab Project ID: 1194990

Collection Date: 08/28/19 10:58
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:49
Container ID: 1194990002-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.195		0.0200	0.00500	mg/L	1		09/16/19 11:10

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:10
Container ID: 1194990002-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990003
Lab Project ID: 1194990

Collection Date: 08/28/19 11:11
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00	U	2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	2.00	U	2.00	2.00	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	2910		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990003-B

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990003
Lab Project ID: 1194990

Collection Date: 08/28/19 11:11
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	9.59		0.200	0.0500	mg/L	1		08/28/19 20:14
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:14
Total Nitrate/Nitrite-N	9.60		0.200	0.0500	mg/L	1		08/28/19 20:14

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 20:14
Container ID: 1194990003-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	39.2		1.05	0.326	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990003-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.871	J	1.00	0.310	mg/L	1		09/17/19 19:57

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 19:57
Container ID: 1194990003-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.101		0.100	0.0310	mg/L	1		09/05/19 13:51

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW3**

Client Sample ID: **SW3**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990003
Lab Project ID: 1194990

Collection Date: 08/28/19 11:11
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:51
Container ID: 1194990003-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.819		0.100	0.0250	mg/L	1		09/16/19 23:35

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:35
Container ID: 1194990003-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990004
Lab Project ID: 1194990

Collection Date: 08/28/19 12:26
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.90		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	1.67	U	1.67	1.67	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	14140		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990004-B

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990004
Lab Project ID: 1194990

Collection Date: 08/28/19 12:26
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:33
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:33
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:33

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 20:33
Container ID: 1194990004-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	56.7		1.05	0.326	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990004-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.605	J	1.00	0.310	mg/L	1		09/17/19 19:58

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 19:58
Container ID: 1194990004-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0404	J	0.100	0.0310	mg/L	1		09/05/19 13:53

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW4**

Client Sample ID: **SW4**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990004
Lab Project ID: 1194990

Collection Date: 08/28/19 12:26
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:53
Container ID: 1194990004-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.384		0.0200	0.00500	mg/L	1		09/16/19 11:12

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:12
Container ID: 1194990004-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990005
Lab Project ID: 1194990

Collection Date: 08/28/19 12:35
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.43		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	66		2.00	2.00	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	52		1	1	MPN/100m	1		08/28/19 18:09
Total Coliform	1733		1	1	MPN/100m	1		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990005-B

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990005
Lab Project ID: 1194990

Collection Date: 08/28/19 12:35
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:52
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:52
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 20:52

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 20:52
Container ID: 1194990005-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	7.27		1.01	0.313	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990005-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.499	J	1.00	0.310	mg/L	1		09/17/19 20:02

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:02
Container ID: 1194990005-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0804	J	0.100	0.0310	mg/L	1		09/05/19 13:54

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW5**

Client Sample ID: **SW5**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990005
Lab Project ID: 1194990

Collection Date: 08/28/19 12:35
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:54
Container ID: 1194990005-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0170	J	0.0200	0.00500	mg/L	1		09/16/19 11:13

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:13
Container ID: 1194990005-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990006
Lab Project ID: 1194990

Collection Date: 08/28/19 12:18
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.42		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	20		1.67	1.67	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	25		1	1	MPN/100m	1		08/28/19 18:09
Total Coliform	1986		1	1	MPN/100m	1		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990006-B

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990006
Lab Project ID: 1194990

Collection Date: 08/28/19 12:18
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 21:49
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 21:49
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 21:49

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 21:49
Container ID: 1194990006-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	19.5		0.990	0.307	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.403	J	1.00	0.310	mg/L	1		09/17/19 20:04

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:04
Container ID: 1194990006-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0561	J	0.100	0.0310	mg/L	1		09/05/19 13:56

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW6**

Client Sample ID: **SW6**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990006
Lab Project ID: 1194990

Collection Date: 08/28/19 12:18
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 13:56
Container ID: 1194990006-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0148	J	0.0200	0.00500	mg/L	1		09/16/19 11:14

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:14
Container ID: 1194990006-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990007
Lab Project ID: 1194990

Collection Date: 08/28/19 12:08
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.65		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	10		2.00	2.00	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	2600		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990007-B

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990007
Lab Project ID: 1194990

Collection Date: 08/28/19 12:08
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:08
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:08
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:08

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 22:08
Container ID: 1194990007-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	49.4		2.86	0.886	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990007-F

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		09/17/19 20:05

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:05
Container ID: 1194990007-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0560	J	0.100	0.0310	mg/L	1		09/05/19 14:01

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW7**

Client Sample ID: **SW7**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990007
Lab Project ID: 1194990

Collection Date: 08/28/19 12:08
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 14:01
Container ID: 1194990007-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0740		0.0200	0.00500	mg/L	1		09/16/19 11:15

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:15
Container ID: 1194990007-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990008
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.95		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	120		10.0	10.0	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	105		1	1	MPN/100m	1		08/28/19 18:09
Total Coliform	2420		1	1	MPN/100m	1		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990008-B

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990008
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:27
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:27
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:27

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 22:27
Container ID: 1194990008-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	92.2		2.00	0.620	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.678	J	1.00	0.310	mg/L	1		09/17/19 20:06

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:06
Container ID: 1194990008-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0727	J	0.100	0.0310	mg/L	1		09/05/19 14:03

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW8**

Client Sample ID: **SW8**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990008
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 14:03
Container ID: 1194990008-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.267		0.0200	0.00500	mg/L	1		09/16/19 11:18

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:18
Container ID: 1194990008-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990009
Lab Project ID: 1194990

Collection Date: 08/28/19 13:52
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.27		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	12		1.67	1.67	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	5170		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990009-B

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990009
Lab Project ID: 1194990

Collection Date: 08/28/19 13:52
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:46
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:46
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 22:46

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 22:46
Container ID: 1194990009-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	105		2.00	0.620	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990009-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.630	J	1.00	0.310	mg/L	1		09/17/19 20:07

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:07
Container ID: 1194990009-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0580	J	0.100	0.0310	mg/L	1		09/05/19 14:04

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW9**

Client Sample ID: **SW9**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990009
Lab Project ID: 1194990

Collection Date: 08/28/19 13:52
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 14:04
Container ID: 1194990009-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.124		0.0200	0.00500	mg/L	1		09/16/19 11:19

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:19
Container ID: 1194990009-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990010
Lab Project ID: 1194990

Collection Date: 08/28/19 13:40
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.83		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	40		10.0	10.0	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	40		1	1	MPN/100m	1		08/28/19 18:09
Total Coliform	>2420		1	1	MPN/100m	1		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990010-B

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990010
Lab Project ID: 1194990

Collection Date: 08/28/19 13:40
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:05
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:05
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:05

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 23:05
Container ID: 1194990010-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	98.6		2.00	0.620	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990010-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.557	J	1.00	0.310	mg/L	1		09/17/19 20:09

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:09
Container ID: 1194990010-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0728	J	0.100	0.0310	mg/L	1		09/05/19 14:06

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **SW10**

Client Sample ID: **SW10**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990010
Lab Project ID: 1194990

Collection Date: 08/28/19 13:40
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 14:06
Container ID: 1194990010-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.120		0.0200	0.00500	mg/L	1		09/16/19 11:19

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:19
Container ID: 1194990010-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **DUP**

Client Sample ID: **DUP**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990011
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	4.21		2.00	2.00	mg/L	1		08/29/19 12:32

Batch Information

Analytical Batch: BOD6415
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/29/19 12:32
Container ID: 1194990011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	830		10.0	10.0	col/100mL	1		08/28/19 17:30

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/28/19 17:30
Container ID: 1194990011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	60		10	10	MPN/100m	10		08/28/19 18:09
Total Coliform	1610		10	10	MPN/100m	10		08/28/19 18:09

Batch Information

Analytical Batch: BTF17602
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/28/19 18:09
Container ID: 1194990011-B

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **DUP**

Client Sample ID: **DUP**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990011
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:24
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:24
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/28/19 23:24

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/28/19 23:24
Container ID: 1194990011-C

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 08/28/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	157		2.00	0.620	mg/L	1		09/03/19 16:56

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/03/19 16:56
Container ID: 1194990011-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.718	J	1.00	0.310	mg/L	1		09/17/19 20:10

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:10
Container ID: 1194990011-D

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0841	J	0.100	0.0310	mg/L	1		09/05/19 14:08

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Results of **DUP**

Client Sample ID: **DUP**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1194990011
Lab Project ID: 1194990

Collection Date: 08/28/19 14:06
Received Date: 08/28/19 16:04
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 14:08
Container ID: 1194990011-D

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 09/05/19 12:00
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.0287		0.0200	0.00500	mg/L	1		09/16/19 11:20

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 11:20
Container ID: 1194990011-D

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:17:43AM

J flagging is activated

Method Blank

Blank ID: MB for HBN 1798702 [BOD/6415]
Blank Lab ID: 1528696

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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: BOD6415
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/29/2019 12:32:31PM

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

Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [BOD6415]
Blank Spike Lab ID: 1528697
Date Analyzed: 08/29/2019 12:32

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	210	106	(84.6-115.4

Batch Information

Analytical Batch: **BOD6415**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 09/20/2019 10:17:55AM

Method Blank

Blank ID: MB for HBN 1798666 [BTF/17600]
Blank Lab ID: 1528505

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17600
Analytical Method: SM21 9222D
Instrument:
Analyst: NRO
Analytical Date/Time: 8/28/2019 5:30:11PM

Print Date: 09/20/2019 10:17:59AM

Method Blank

Blank ID: MB for HBN 1798668 [BTF/17602]
Blank Lab ID: 1528508

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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: BTF17602
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/28/2019 6:09:14PM

Method Blank

Blank ID: MB for HBN 1798860 [STS/6457]
Blank Lab ID: 1529352

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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: STS6457
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/3/2019 4:56:09PM

Duplicate Sample Summary

Original Sample ID: 1194990001
Duplicate Sample ID: 1529355

Analysis Date: 09/03/2019 16:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	1040	1127	mg/L	7.70*	(< 5)

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/20/2019 10:18:12AM

Duplicate Sample Summary

Original Sample ID: 1195077001
Duplicate Sample ID: 1529356

Analysis Date: 09/03/2019 16:56
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	11600	11940	mg/L	2.50	(< 5)

Batch Information

Analytical Batch: STS6457
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/20/2019 10:18:12AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [STS6457]
Blank Spike Lab ID: 1529353
Date Analyzed: 09/03/2019 16:56

Spike Duplicate ID: LCSD for HBN 1194990 [STS6457]
Spike Duplicate Lab ID: 1529354
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	21.8	87	25	21.1	84	(75-125)	3.30	(< 5)

Batch Information

Analytical Batch: **STS6457**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1798706 [WXX/12989]
Blank Lab ID: 1528704

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

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

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/27/2019 8:46:39PM

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 8/27/2019 4:45:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Method Blank

Blank ID: MB for HBN 1798706 [WXX/12989]
Blank Lab ID: 1528710

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

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

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/28/2019 6:20:25PM

Prep Batch: WXX12989
Prep Method: METHOD
Prep Date/Time: 8/28/2019 5:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX12989]
Blank Spike Lab ID: 1528705
Date Analyzed: 08/27/2019 21:05

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.79	96	(90-110)
Nitrite-N	5	4.96	99	(90-110)
Total Nitrate/Nitrite-N	10	9.75	98	(90-110)

Batch Information

Analytical Batch: **WIC5957**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX12989**
Prep Method: **METHOD**
Prep Date/Time: **08/27/2019 16:45**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX12989]
Blank Spike Lab ID: 1528711
Date Analyzed: 08/28/2019 18:39

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	5.25	105	(90-110)
Nitrite-N	5	5.17	103	(90-110)
Total Nitrate/Nitrite-N	10	10.4	104	(90-110)

Batch Information

Analytical Batch: **WIC5957**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX12989**
Prep Method: **METHOD**
Prep Date/Time: **08/28/2019 17:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1528703
MS Sample ID: 1528707 MS
MSD Sample ID:

Analysis Date: 08/28/2019 0:53
Analysis Date: 08/28/2019 1:12
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.9	98				90-110		
Nitrite-N	0.100U	5.00	4.85	97				90-110		

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/28/2019 1:12:15AM

Prep Batch: WXX12989
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/27/2019 4:45:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 09/20/2019 10:18:19AM

Matrix Spike Summary

Original Sample ID: 1194984001
MS Sample ID: 1528708 MS
MSD Sample ID:

Analysis Date: 08/28/2019 18:58
Analysis Date: 08/28/2019 19:17
Analysis Date:
Matrix: Drinking Water

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrite-N	0.0530J	5.00	4.91	97				90-110		

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/28/2019 7:17:20PM

Prep Batch: WXX12989
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/28/2019 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

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Matrix Spike Summary

Original Sample ID: 1194990011
MS Sample ID: 1528709 MS
MSD Sample ID:

Analysis Date: 08/28/2019 23:24
Analysis Date: 08/28/2019 23:42
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.93	99				90-110		
Nitrite-N	0.100U	5.00	4.98	100				90-110		
Total Nitrate/Nitrite-N	0.100U	10.0	9.91	99				90-110		

Batch Information

Analytical Batch: WIC5957
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/28/2019 11:42:57PM

Prep Batch: WXX12989
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/28/2019 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 09/20/2019 10:18:19AM

Method Blank

Blank ID: MB for HBN 1799048 [WXX/12997]
Blank Lab ID: 1530172

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 4500-NH3 G**

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

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2019 1:29:54PM

Prep Batch: WXX12997
Prep Method: METHOD
Prep Date/Time: 9/5/2019 12:00:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX12997]
Blank Spike Lab ID: 1530173
Date Analyzed: 09/05/2019 13:31

Spike Duplicate ID: LCSD for HBN 1194990 [WXX12997]
Spike Duplicate Lab ID: 1530174
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.05	105	1	1.05	105	(75-125)	0.58	(< 25)

Batch Information

Analytical Batch: **WDA4636**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12997**
Prep Method: **METHOD**
Prep Date/Time: **09/05/2019 12:00**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1199686001
MS Sample ID: 1530175 MS
MSD Sample ID: 1530176 MSD

Analysis Date: 09/05/2019 13:34
Analysis Date: 09/05/2019 13:36
Analysis Date: 09/05/2019 13:41
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.0531J	1.00	1.04	99	1.00	1.06	101	75-125	1.80	(< 25)

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2019 1:36:32PM

Prep Batch: WXX12997
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/5/2019 12:00:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/20/2019 10:18:22AM

Method Blank

Blank ID: MB for HBN 1799656 [WXX/13009]
Blank Lab ID: 1532869

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990002, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0100U	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:06:20AM

Prep Batch: WXX13009
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/13/2019 4:18:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX13009]
Blank Spike Lab ID: 1532870
Date Analyzed: 09/16/2019 11:07

Spike Duplicate ID: LCSD for HBN 1194990 [WXX13009]
Spike Duplicate Lab ID: 1532871
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990002, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.186	93	0.2	0.190	95	(75-125)	2.20	(< 25)

Batch Information

Analytical Batch: **WDA4640**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13009**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/13/2019 16:18**
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: 1199696001
MS Sample ID: 1532872 MS
MSD Sample ID: 1532873 MSD

Analysis Date: 09/16/2019 11:21
Analysis Date: 09/16/2019 11:22
Analysis Date: 09/16/2019 11:23
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990002, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0100U	0.200	.201	101	0.200	0.202	101	75-125	0.20	(< 25)

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:22:53AM

Prep Batch: WXX13009
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/13/2019 4:18:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:18:26AM

Method Blank

Blank ID: MB for HBN 1799659 [WXX/13011]
Blank Lab ID: 1532880

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990003

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0109J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:29:20PM

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/16/2019 10:45:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX13011]
Blank Spike Lab ID: 1532881
Date Analyzed: 09/16/2019 23:30

Spike Duplicate ID: LCSD for HBN 1194990 [WXX13011]
Spike Duplicate Lab ID: 1532882
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990003

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

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.199	99	0.2	0.191	96	(75-125)	3.70	(< 25)

Batch Information

Analytical Batch: **WDA4640**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13011**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/16/2019 22:45**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1194990001
MS Sample ID: 1532883 MS
MSD Sample ID: 1532884 MSD

Analysis Date: 09/16/2019 23:32
Analysis Date: 09/16/2019 23:33
Analysis Date: 09/16/2019 23:34
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990003

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	0.637	1.00	1.49	85	1.00	1.49	86	75-125	0.57	(< 25)

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:33:13PM

Prep Batch: WXX13011
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/16/2019 10:45:00PM
Prep Initial Wt./Vol.: 5.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:18:29AM

Method Blank

Blank ID: MB for HBN 1799665 [WXX/13013]
Blank Lab ID: 1532940

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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: WDA4641
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/17/2019 7:47:00PM

Prep Batch: WXX13013
Prep Method: METHOD
Prep Date/Time: 9/17/2019 2:14:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1194990 [WXX13013]
Blank Spike Lab ID: 1532941
Date Analyzed: 09/17/2019 19:48

Spike Duplicate ID: LCSD for HBN 1194990 [WXX13013]
Spike Duplicate Lab ID: 1532942
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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	3.75	94	4	4.12	103	(75-125)	9.40	(< 25)

Batch Information

Analytical Batch: **WDA4641**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13013**
Prep Method: **METHOD**
Prep Date/Time: **09/17/2019 14:14**
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: 1198801008
MS Sample ID: 1532943 MS
MSD Sample ID: 1532944 MSD

Analysis Date: 09/18/2019 14:00
Analysis Date: 09/17/2019 19:52
Analysis Date: 09/17/2019 19:53
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1194990001, 1194990002, 1194990003, 1194990004, 1194990005, 1194990006, 1194990007, 1194990008, 1194990009, 1194990010, 1194990011

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	1.00U	4.00	3.87	97	4.00	3.55	89	75-125	8.40	(< 25)

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/17/2019 7:52:15PM

Prep Batch: WXX13013
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/17/2019 2:14:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:18:32AM

SGS 1194990

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Locations Nationwide
Alaska Maryland
New Jersey New York
North Carolina Indiana
West Virgina Kentucky
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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT: Stantec
CONTACT: Jake Alward PHONE NO: 343-5202
PROJECT NAME: Wasilla WWTP PROJECT/ PWSID/ PERMIT#:
REPORTS TO: E-MAIL: jake.alward@stantec.com
INVOICE TO: QUOTE #: 204700415 P.O. #:

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	Preservative: 1	1	Na_2SO_4	Na_2SO_4	H_2SO_4	1				REMARKS/ LOC ID
							BOD	TSS	FC	TC (Quant) 1x10x	TKN/Ammonia/ TP	Nitrate/Nitrite				
1 AF	SW1	8/28/19	10:31	Water	6	G	1	1	1	1	1	1				
2 AF	SW2		10:58				1	1	1	1	1	1				
3 AF	SW3		11:11				1	1	1	1	1	1				
4 AF	SW4		12:06				1	1	1	1	1	1				
5 AF	SW5		12:35				1	1	1	1	1	1				
6 AF	SW6		12:18				1	1	1	1	1	1				
7 AF	SW7		12:08				1	1	1	1	1	1				
8 AF	SW8		14:06				1	1	1	1	1	1				
9 AF	SW9		13:52				1	1	1	1	1	1				
10 AF	SW10	↓	13:40	↓	↓	↓	1	1	1	1	1	1				

Section 5

	Date	Time	
Relinquished By: (1)	8/28	1604	Received By:
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 8.28.19	Time 16:04	Received For Laboratory By:

Section 4

DOD Project? Yes No

Cooler ID:

Data Deliverable Requirements:

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

Temp Blank °C: 4, 4c D52
or Ambient [ ]
(See attached Sample Receipt Form)

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

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[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

HD

3, c D52

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Alaska, Maryland, New Jersey, New York, North Carolina, Indiana, West Virgina, Kentucky
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Instructions: Sections 1 - 5 must be filled out. Omissions may delay the onset of analysis.

Section 1

CLIENT:	
CONTACT:	PHONE NO:
PROJECT NAME:	PROJECT/ PWSID/ PERMIT#:
REPORTS TO:	E-MAIL:
INVOICE TO:	QUOTE #: P.O. #:

Section 2 / Section 3

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incremental Soils	FC (Na_2SO_4)	TC 1x/1cx Quant (Na_2SO_4)	BOD (/)	TSS (/)	Nitrate/Nitrite (/)	TKN/Ammonia/TP (H_2SO_4)					REMARKS/ LOC ID
① AF	DUP	8/28	14:06	water	6	G	1	1	1	1	1	1					

Section 5

Relinquished By:	Date	Time	Received By:
(1)	8/28	1604	
(2)			
(3)			
(4)	8.28.19	16:04	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: 4.4C D52
or Ambient [ ]
(See attached Sample Receipt Form)

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

LTD
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e-Sample Receipt Form

SGS Workorder #: **1194990**

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	HD
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?		
**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 @ 4.4 °C Therm. ID: D52
	Yes	Cooler ID: 2 @ 3.6 °C Therm. ID: D52
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC informatic		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
		***Exemption permitted for metals (e.g,200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1194990001-A	Na2S2O3 for Chlorine Redu	OK			
1194990001-B	Na2S2O3 for Chlorine Redu	OK			
1194990001-C	No Preservative Required	OK			
1194990001-D	H2SO4 to pH < 2	OK			
1194990001-E	No Preservative Required	OK			
1194990001-F	No Preservative Required	OK			
1194990002-A	Na2S2O3 for Chlorine Redu	OK			
1194990002-B	Na2S2O3 for Chlorine Redu	OK			
1194990002-C	No Preservative Required	OK			
1194990002-D	H2SO4 to pH < 2	OK			
1194990002-E	No Preservative Required	OK			
1194990002-F	No Preservative Required	OK			
1194990003-A	Na2S2O3 for Chlorine Redu	OK			
1194990003-B	Na2S2O3 for Chlorine Redu	OK			
1194990003-C	No Preservative Required	OK			
1194990003-D	H2SO4 to pH < 2	OK			
1194990003-E	No Preservative Required	OK			
1194990003-F	No Preservative Required	OK			
1194990004-A	Na2S2O3 for Chlorine Redu	OK			
1194990004-B	Na2S2O3 for Chlorine Redu	OK			
1194990004-C	No Preservative Required	OK			
1194990004-D	H2SO4 to pH < 2	OK			
1194990004-E	No Preservative Required	OK			
1194990004-F	No Preservative Required	OK			
1194990005-A	Na2S2O3 for Chlorine Redu	OK			
1194990005-B	Na2S2O3 for Chlorine Redu	OK			
1194990005-C	No Preservative Required	OK			
1194990005-D	H2SO4 to pH < 2	OK			
1194990005-E	No Preservative Required	OK			
1194990005-F	No Preservative Required	OK			
1194990006-A	Na2S2O3 for Chlorine Redu	OK			
1194990006-B	Na2S2O3 for Chlorine Redu	OK			
1194990006-C	No Preservative Required	OK			
1194990006-D	H2SO4 to pH < 2	OK			
1194990006-E	No Preservative Required	OK			
1194990006-F	No Preservative Required	OK			
1194990007-A	Na2S2O3 for Chlorine Redu	OK			
1194990007-B	Na2S2O3 for Chlorine Redu	OK			
1194990007-C	No Preservative Required	OK			
1194990007-D	H2SO4 to pH < 2	OK			
1194990007-E	No Preservative Required	OK			
1194990007-F	No Preservative Required	OK			
1194990008-A	Na2S2O3 for Chlorine Redu	OK			
1194990008-B	Na2S2O3 for Chlorine Redu	OK			
1194990008-C	No Preservative Required	OK			
1194990008-D	H2SO4 to pH < 2	OK			
1194990008-E	No Preservative Required	OK			
1194990008-F	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1194990009-A	Na2S2O3 for Chlorine Redu	OK			
1194990009-B	Na2S2O3 for Chlorine Redu	OK			
1194990009-C	No Preservative Required	OK			
1194990009-D	H2SO4 to pH < 2	OK			
1194990009-E	No Preservative Required	OK			
1194990009-F	No Preservative Required	OK			
1194990010-A	Na2S2O3 for Chlorine Redu	OK			
1194990010-B	Na2S2O3 for Chlorine Redu	OK			
1194990010-C	No Preservative Required	OK			
1194990010-D	H2SO4 to pH < 2	OK			
1194990010-E	No Preservative Required	OK			
1194990010-F	No Preservative Required	OK			
1194990011-A	Na2S2O3 for Chlorine Redu	OK			
1194990011-B	Na2S2O3 for Chlorine Redu	OK			
1194990011-C	No Preservative Required	OK			
1194990011-D	H2SO4 to pH < 2	OK			
1194990011-E	No Preservative Required	OK			
1194990011-F	No Preservative Required	OK			

Container Condition Glossary

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

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

Laboratory Report of Analysis

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

Report Number: **1195032**

Client Project: **Wasilla WWTP**

Dear John Marshall,

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

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

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

Sincerely,
SGS North America Inc.

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

Case Narrative

SGS Client: **Stantec Consulting Services Inc.**
SGS Project: **1195032**
Project Name/Site: **Wasilla WWTP**
Project Contact: **John Marshall**

Refer to sample receipt form for information on sample condition.

SW14 (1195032004) PS

9223 – Quanti-Tray - Sample was also analyzed undiluted and showed 3 colonies of E.coli present.

Effluent (1195032011) PS

300.0 - Anions - The LOQ for Nitrite was raised due to matrix interference.

1195032002DUP (1529515) DUP

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

1195032006DUP (1529516) DUP

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

1195032011(1529999MS) (1530003) MS

300.0 - Anions - MS recoveries for Fluoride, Chloride, Nitrate, Sulfate, and Total Nitrate/Nitrite are outside of QC criteria. Refer to LCS for accuracy requirements.

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

Laboratory Qualifiers

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

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

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

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

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

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

Sample Summary

Client Sample ID	Lab Sample ID	Collected	Received	Matrix
SW11	1195032001	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW12	1195032002	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW13	1195032003	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW14	1195032004	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW15	1195032005	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW16	1195032006	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW17	1195032007	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SW18	1195032008	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
SHAW	1195032009	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
Dup2	1195032010	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)
Effluent	1195032011	08/29/2019	08/29/2019	Water (Surface, Eff., Ground)

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

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Detectable Results Summary

Client Sample ID: **SW11**
Lab Sample ID: 1195032001

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	7.81	mg/L
	E. Coli	410	MPN/100mL
	Fecal Coliform	155	col/100mL
	Total Coliform	1620	MPN/100mL
Waters Department	Ammonia-N	0.0658J	mg/L
	Total Phosphorus	0.864	mg/L
	Total Suspended Solids	153	mg/L

Client Sample ID: **SW12**
Lab Sample ID: 1195032002

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	7.76	mg/L
	E. Coli	54	MPN/100mL
	Fecal Coliform	100	col/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.120	mg/L
	Total Kjeldahl Nitrogen	0.553J	mg/L
	Total Phosphorus	0.779	mg/L
	Total Suspended Solids	1950	mg/L

Client Sample ID: **SW13**
Lab Sample ID: 1195032003

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	5.52	mg/L
	E. Coli	20	MPN/100mL
	Fecal Coliform	55	col/100mL
	Total Coliform	12030	MPN/100mL
Waters Department	Ammonia-N	0.128	mg/L
	Total Kjeldahl Nitrogen	0.913J	mg/L
	Total Phosphorus	0.225	mg/L
	Total Suspended Solids	124	mg/L

Client Sample ID: **SW14**
Lab Sample ID: 1195032004

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	7.73	mg/L
	Fecal Coliform	9.1	col/100mL
	Total Coliform	2910	MPN/100mL
Waters Department	Ammonia-N	0.0949J	mg/L
	Total Kjeldahl Nitrogen	0.400J	mg/L
	Total Phosphorus	0.940	mg/L
	Total Suspended Solids	211	mg/L

Detectable Results Summary

Client Sample ID: **SW15**
Lab Sample ID: 1195032005

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	5.73	mg/L
	E. Coli	11	MPN/100mL
	Total Coliform	387	MPN/100mL
Waters Department	Ammonia-N	0.121	mg/L
	Total Phosphorus	0.115	mg/L
	Total Suspended Solids	124	mg/L

Client Sample ID: **SW16**
Lab Sample ID: 1195032006

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	9.17	mg/L
	E. Coli	89	MPN/100mL
	Total Coliform	GT2420	MPN/100mL
Waters Department	Ammonia-N	0.168	mg/L
	Total Kjeldahl Nitrogen	1.33	mg/L
	Total Phosphorus	0.697	mg/L
	Total Suspended Solids	928	mg/L

Client Sample ID: **SW17**
Lab Sample ID: 1195032007

	Parameter	Result	Units
Microbiology Laboratory	E. Coli	185	MPN/100mL
	Fecal Coliform	153	col/100mL
	Total Coliform	1986	MPN/100mL
Waters Department	Ammonia-N	0.0949J	mg/L
	Nitrate-N	3.31	mg/L
	Total Kjeldahl Nitrogen	0.370J	mg/L
	Total Nitrate/Nitrite-N	3.32	mg/L
	Total Phosphorus	0.161	mg/L
	Total Suspended Solids	2.16	mg/L

Client Sample ID: **SW18**
Lab Sample ID: 1195032008

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.74	mg/L
	E. Coli	60	MPN/100mL
	Fecal Coliform	96	col/100mL
	Total Coliform	1260	MPN/100mL
Waters Department	Ammonia-N	0.205	mg/L
	Nitrate-N	4.10	mg/L
	Total Kjeldahl Nitrogen	0.481J	mg/L
	Total Nitrate/Nitrite-N	4.13	mg/L
	Total Phosphorus	0.324	mg/L
	Total Suspended Solids	2.78	mg/L

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Detectable Results Summary

Client Sample ID: **SHAW**
Lab Sample ID: 1195032009

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	3.20	mg/L
	E. Coli	80	MPN/100mL
	Fecal Coliform	36	col/100mL
	Total Coliform	4350	MPN/100mL
Waters Department	Ammonia-N	0.200	mg/L
	Total Kjeldahl Nitrogen	0.719J	mg/L
	Total Phosphorus	1.16	mg/L
	Total Suspended Solids	108	mg/L

Client Sample ID: **Dup2**
Lab Sample ID: 1195032010

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	2.49	mg/L
	E. Coli	79	MPN/100mL
	Fecal Coliform	70	col/100mL
	Total Coliform	1300	MPN/100mL
Waters Department	Ammonia-N	0.209	mg/L
	Nitrate-N	4.11	mg/L
	Total Kjeldahl Nitrogen	0.676J	mg/L
	Total Nitrate/Nitrite-N	4.14	mg/L
	Total Phosphorus	0.416	mg/L
	Total Suspended Solids	3.09	mg/L

Client Sample ID: **Effluent**
Lab Sample ID: 1195032011

	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	12.7	mg/L
	E. Coli	860	MPN/100mL
	Fecal Coliform	950	col/100mL
	Total Coliform	24200	MPN/100mL
Waters Department	Ammonia-N	0.203	mg/L
	Nitrate-N	33.6	mg/L
	Nitrite-N	0.644J	mg/L
	Total Kjeldahl Nitrogen	2.36	mg/L
	Total Nitrate/Nitrite-N	34.3	mg/L
	Total Phosphorus	5.58	mg/L
	Total Suspended Solids	14.7	mg/L

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Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032001
Lab Project ID: 1195032

Collection Date: 08/29/19 10:07
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	7.81		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032001-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	155		9.09	9.09	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032001-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	410		10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	1620		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032001-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032001
Lab Project ID: 1195032

Collection Date: 08/29/19 10:07
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:14
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:14
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:14

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 20:14
Container ID: 1195032001-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	153		2.00	0.620	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032001-F

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		09/17/19 20:22

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:22
Container ID: 1195032001-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0658	J	0.100	0.0310	mg/L	1		09/05/19 15:32

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW11**

Client Sample ID: **SW11**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032001
Lab Project ID: 1195032

Collection Date: 08/29/19 10:07
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:32
Container ID: 1195032001-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.864		0.100	0.0250	mg/L	1		09/16/19 23:35

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:35
Container ID: 1195032001-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032002
Lab Project ID: 1195032

Collection Date: 08/29/19 10:20
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	7.76		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032002-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	100		100	100	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032002-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	54		1	1	MPN/100m	1		08/29/19 17:41
Total Coliform	>2420		1	1	MPN/100m	1		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032002-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032002
Lab Project ID: 1195032

Collection Date: 08/29/19 10:20
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:52
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:52
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 20:52

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 20:52
Container ID: 1195032002-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	1950		10.0	3.10	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032002-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.553	J	1.00	0.310	mg/L	1		09/17/19 20:23

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:23
Container ID: 1195032002-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.120		0.100	0.0310	mg/L	1		09/05/19 15:34

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW12**

Client Sample ID: **SW12**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032002
Lab Project ID: 1195032

Collection Date: 08/29/19 10:20
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:34
Container ID: 1195032002-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.779		0.100	0.0250	mg/L	1		09/16/19 23:36

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:36
Container ID: 1195032002-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032003
Lab Project ID: 1195032

Collection Date: 08/29/19 10:32
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	5.52		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032003-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	55		9.09	9.09	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032003-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	20		10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	12030		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032003-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032003
Lab Project ID: 1195032

Collection Date: 08/29/19 10:32
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:11
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:11
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:11

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 21:11
Container ID: 1195032003-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	124		4.00	1.24	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032003-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.913	J	1.00	0.310	mg/L	1		09/17/19 20:24

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:24
Container ID: 1195032003-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.128		0.100	0.0310	mg/L	1		09/05/19 15:53

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW13**

Client Sample ID: **SW13**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032003
Lab Project ID: 1195032

Collection Date: 08/29/19 10:32
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:53
Container ID: 1195032003-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.225		0.0200	0.00500	mg/L	1		09/16/19 18:26

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 18:26
Container ID: 1195032003-D

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032004
Lab Project ID: 1195032

Collection Date: 08/29/19 11:15
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	7.73		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032004-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.1		9.09	9.09	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032004-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	10	U	10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	2910		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032004-B

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032004
Lab Project ID: 1195032

Collection Date: 08/29/19 11:15
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:30
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:30
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:30

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 21:30
Container ID: 1195032004-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	211		4.00	1.24	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032004-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.400	J	1.00	0.310	mg/L	1		09/17/19 20:26

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:26
Container ID: 1195032004-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0949	J	0.100	0.0310	mg/L	1		09/05/19 15:55

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW14**

Client Sample ID: **SW14**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032004
Lab Project ID: 1195032

Collection Date: 08/29/19 11:15
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:55
Container ID: 1195032004-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.940		0.100	0.0250	mg/L	1		09/16/19 23:37

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:37
Container ID: 1195032004-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032005
Lab Project ID: 1195032

Collection Date: 08/29/19 11:00
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	5.73		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032005-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	9.09	U	9.09	9.09	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032005-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	11		1	1	MPN/100m	1		08/29/19 17:41
Total Coliform	387		1	1	MPN/100m	1		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032005-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032005
Lab Project ID: 1195032

Collection Date: 08/29/19 11:00
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:49
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:49
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 21:49

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 21:49
Container ID: 1195032005-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	124		4.00	1.24	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032005-F

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		09/17/19 20:27

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:27
Container ID: 1195032005-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.121		0.100	0.0310	mg/L	1		09/05/19 15:57

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW15**

Client Sample ID: **SW15**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032005
Lab Project ID: 1195032

Collection Date: 08/29/19 11:00
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:57
Container ID: 1195032005-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.115		0.0200	0.00500	mg/L	1		09/16/19 18:27

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 18:27
Container ID: 1195032005-D

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032006
Lab Project ID: 1195032

Collection Date: 08/29/19 10:48
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	9.17		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032006-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	100 U		100	100	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032006-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	89		1	1	MPN/100m	1		08/29/19 17:41
Total Coliform	>2420		1	1	MPN/100m	1		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032006-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032006
Lab Project ID: 1195032

Collection Date: 08/29/19 10:48
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 22:46
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 22:46
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 22:46

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 22:46
Container ID: 1195032006-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	928		10.0	3.10	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032006-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	1.33		1.00	0.310	mg/L	1		09/17/19 20:28

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:28
Container ID: 1195032006-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.168		0.100	0.0310	mg/L	1		09/05/19 15:58

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW16**

Client Sample ID: **SW16**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032006
Lab Project ID: 1195032

Collection Date: 08/29/19 10:48
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 15:58
Container ID: 1195032006-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.697		0.100	0.0250	mg/L	1		09/16/19 23:40

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:40
Container ID: 1195032006-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032007
Lab Project ID: 1195032

Collection Date: 08/29/19 11:42
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.00 U		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032007-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	153		1.67	1.67	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032007-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	185		1	1	MPN/100m	1		08/29/19 17:41
Total Coliform	1986		1	1	MPN/100m	1		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032007-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032007
Lab Project ID: 1195032

Collection Date: 08/29/19 11:42
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	3.31		0.200	0.0500	mg/L	1		08/30/19 23:05
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 23:05
Total Nitrate/Nitrite-N	3.32		0.200	0.0500	mg/L	1		08/30/19 23:05

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 23:05
Container ID: 1195032007-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.16		1.14	0.352	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032007-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.370	J	1.00	0.310	mg/L	1		09/17/19 20:30

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:30
Container ID: 1195032007-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.0949	J	0.100	0.0310	mg/L	1		09/05/19 16:00

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW17**

Client Sample ID: **SW17**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032007
Lab Project ID: 1195032

Collection Date: 08/29/19 11:42
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 16:00
Container ID: 1195032007-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.161		0.0200	0.00500	mg/L	1		09/16/19 18:29

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 18:29
Container ID: 1195032007-D

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032008
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.74		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032008-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	96		2.00	2.00	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032008-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	60		10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	1260		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032008-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032008
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	4.10		0.200	0.0500	mg/L	1		08/30/19 23:24
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 23:24
Total Nitrate/Nitrite-N	4.13		0.200	0.0500	mg/L	1		08/30/19 23:24

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 23:24
Container ID: 1195032008-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	2.78		1.03	0.320	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032008-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.481	J	1.00	0.310	mg/L	1		09/17/19 20:33

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:33
Container ID: 1195032008-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.205		0.100	0.0310	mg/L	1		09/05/19 16:05

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SW18**

Client Sample ID: **SW18**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032008
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 16:05
Container ID: 1195032008-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.324		0.0200	0.00500	mg/L	1		09/16/19 18:30

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 18:30
Container ID: 1195032008-D

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032009
Lab Project ID: 1195032

Collection Date: 08/29/19 12:33
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	3.20		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032009-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	36		9.09	9.09	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032009-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	80		10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	4350		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032009-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032009
Lab Project ID: 1195032

Collection Date: 08/29/19 12:33
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 23:43
Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 23:43
Total Nitrate/Nitrite-N	0.100	U	0.200	0.0500	mg/L	1		08/30/19 23:43

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/30/19 23:43
Container ID: 1195032009-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	108		4.00	1.24	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032009-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.719	J	1.00	0.310	mg/L	1		09/17/19 20:35

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:35
Container ID: 1195032009-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.200		0.100	0.0310	mg/L	1		09/05/19 16:07

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **SHAW**

Client Sample ID: **SHAW**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032009
Lab Project ID: 1195032

Collection Date: 08/29/19 12:33
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 16:07
Container ID: 1195032009-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	1.16		0.200	0.0500	mg/L	1		09/16/19 23:40

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:40
Container ID: 1195032009-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 2.5 mL
Prep Extract Vol: 25 mL

Results of **Dup2**

Client Sample ID: **Dup2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032010
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	2.49		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032010-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	70		2.00	2.00	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032010-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	79		1	1	MPN/100m	1		08/29/19 17:41
Total Coliform	1300		1	1	MPN/100m	1		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032010-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **Dup2**

Client Sample ID: **Dup2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032010
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	4.11		0.200	0.0500	mg/L	1		08/31/19 00:02
Nitrite-N	0.100 U		0.200	0.0500	mg/L	1		08/31/19 00:02
Total Nitrate/Nitrite-N	4.14		0.200	0.0500	mg/L	1		08/31/19 00:02

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/31/19 00:02
Container ID: 1195032010-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	3.09		1.06	0.330	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032010-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.676 J		1.00	0.310	mg/L	1		09/17/19 20:36

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:36
Container ID: 1195032010-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.209		0.100	0.0310	mg/L	1		09/05/19 16:08

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **Dup2**

Client Sample ID: **Dup2**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032010
Lab Project ID: 1195032

Collection Date: 08/29/19 11:56
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 16:08
Container ID: 1195032010-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	0.416		0.0200	0.00500	mg/L	1		09/16/19 18:34

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 18:34
Container ID: 1195032010-D

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/13/19 16:18
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032011
Lab Project ID: 1195032

Collection Date: 08/29/19 13:39
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Microbiology Laboratory**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Biochemical Oxygen Demand	12.7		2.00	2.00	mg/L	1		08/30/19 11:52

Batch Information

Analytical Batch: BOD6417
Analytical Method: SM21 5210B
Analyst: A.L
Analytical Date/Time: 08/30/19 11:52
Container ID: 1195032011-E

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Fecal Coliform	950		10.0	10.0	col/100mL	1		08/29/19 17:29

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Analyst: NRO
Analytical Date/Time: 08/29/19 17:29
Container ID: 1195032011-A

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
E. Coli	860		10	10	MPN/100m	10		08/29/19 17:41
Total Coliform	24200		10	10	MPN/100m	10		08/29/19 17:41

Batch Information

Analytical Batch: BTF17604
Analytical Method: SM21 9223B
Analyst: A.L
Analytical Date/Time: 08/29/19 17:41
Container ID: 1195032011-B

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032011
Lab Project ID: 1195032

Collection Date: 08/29/19 13:39
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Nitrate-N	33.6		0.800	0.200	mg/L	4		08/31/19 10:42
Nitrite-N	0.644	J	0.800	0.200	mg/L	4		08/31/19 10:42
Total Nitrate/Nitrite-N	34.3		0.800	0.200	mg/L	4		08/31/19 10:42

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Analyst: DMM
Analytical Date/Time: 08/31/19 10:42
Container ID: 1195032011-C

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 08/30/19 17:00
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Suspended Solids	14.7		1.43	0.443	mg/L	1		09/04/19 12:17

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Analyst: EWW
Analytical Date/Time: 09/04/19 12:17
Container ID: 1195032011-F

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	2.36		1.00	0.310	mg/L	1		09/17/19 20:37

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Analyst: DMM
Analytical Date/Time: 09/17/19 20:37
Container ID: 1195032011-D

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 09/17/19 14:14
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Ammonia-N	0.203		0.100	0.0310	mg/L	1		09/05/19 16:10

Print Date: 09/20/2019 10:19:55AM

J flagging is activated

Results of **Effluent**

Client Sample ID: **Effluent**
Client Project ID: **Wasilla WWTP**
Lab Sample ID: 1195032011
Lab Project ID: 1195032

Collection Date: 08/29/19 13:39
Received Date: 08/29/19 15:38
Matrix: Water (Surface, Eff., Ground)
Solids (%):
Location:

Results by **Waters Department**

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Analyst: DMM
Analytical Date/Time: 09/05/19 16:10
Container ID: 1195032011-D

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 09/05/19 14:20
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Parameter	Result	Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Total Phosphorus	5.58		2.00	0.500	mg/L	1		09/16/19 23:41

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Analyst: DMM
Analytical Date/Time: 09/16/19 23:41
Container ID: 1195032011-D

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/16/19 22:45
Prep Initial Wt./Vol.: 0.25 mL
Prep Extract Vol: 25 mL

Method Blank

Blank ID: MB for HBN 1798757 [BOD/6417]
Blank Lab ID: 1528966

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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: BOD6417
Analytical Method: SM21 5210B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/30/2019 11:52:33AM

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [BOD6417]
Blank Spike Lab ID: 1528967
Date Analyzed: 08/30/2019 11:52

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 5210B**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	220	111	(84.6-115.4

Batch Information

Analytical Batch: **BOD6417**
Analytical Method: **SM21 5210B**
Instrument:
Analyst: **A.L**

Print Date: 09/20/2019 10:20:01AM

Method Blank

Blank ID: MB for HBN 1798736 [BTF/17604]
Blank Lab ID: 1528886

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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: BTF17604
Analytical Method: SM21 9223B
Instrument:
Analyst: A.L
Analytical Date/Time: 8/29/2019 5:41:40PM

Method Blank

Blank ID: MB for HBN 1798739 [BTF/17607]
Blank Lab ID: 1528892

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 9222D**

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

Batch Information

Analytical Batch: BTF17607
Analytical Method: SM21 9222D
Instrument:
Analyst: NRO
Analytical Date/Time: 8/29/2019 5:29:21PM

Print Date: 09/20/2019 10:20:07AM

Method Blank

Blank ID: MB for HBN 1798895 [STS/6458]
Blank Lab ID: 1529512

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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: STS6458
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW
Analytical Date/Time: 9/4/2019 12:17:11PM

Print Date: 09/20/2019 10:20:09AM

Duplicate Sample Summary

Original Sample ID: 1195032002
Duplicate Sample ID: 1529515
Analysis Date: 09/04/2019 12:17
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	1950	2545	mg/L	26.60*	(< 5)

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/20/2019 10:20:10AM

Duplicate Sample Summary

Original Sample ID: 1195032006
Duplicate Sample ID: 1529516

Analysis Date: 09/04/2019 12:17
Matrix: Water (Surface, Eff., Ground)

QC for Samples:

1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 2540D**

NAME	Original	Duplicate	Units	RPD (%)	RPD CL
Total Suspended Solids	928	986	mg/L	6.10*	(< 5)

Batch Information

Analytical Batch: STS6458
Analytical Method: SM21 2540D
Instrument:
Analyst: EWW

Print Date: 09/20/2019 10:20:10AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [STS6458]
Blank Spike Lab ID: 1529513
Date Analyzed: 09/04/2019 12:17

Spike Duplicate ID: LCSD for HBN 1195032 [STS6458]
Spike Duplicate Lab ID: 1529514
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 2540D**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Suspended Solids	25	24.0	96	25	24.6	98	(75-125)	2.50	(< 5)

Batch Information

Analytical Batch: **STS6458**
Analytical Method: **SM21 2540D**
Instrument:
Analyst: **EWW**

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Method Blank

Blank ID: MB for HBN 1799023 [WXX/12992]
Blank Lab ID: 1530000

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **EPA 300.0**

Parameter	Results	LOQ/CL	DL	Units
Nitrate-N	0.100U	0.200	0.0500	mg/L
Nitrite-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N	0.0580J	0.200	0.0500	mg/L

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/30/2019 7:17:27PM

Prep Batch: WXX12992
Prep Method: METHOD
Prep Date/Time: 8/30/2019 5:00:00PM
Prep Initial Wt./Vol.: 10 mL
Prep Extract Vol: 10 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [WXX12992]
Blank Spike Lab ID: 1530001
Date Analyzed: 08/30/2019 19:36

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **EPA 300.0**

Blank Spike (mg/L)

Parameter	Spike	Result	Rec (%)	CL
Nitrate-N	5	4.85	97	(90-110)
Nitrite-N	5	5.02	100	(90-110)
Total Nitrate/Nitrite-N	10	9.87	99	(90-110)

Batch Information

Analytical Batch: **WIC5959**
Analytical Method: **EPA 300.0**
Instrument: **930 Metrohm compact IC flex**
Analyst: **DMM**

Prep Batch: **WXX12992**
Prep Method: **METHOD**
Prep Date/Time: **08/30/2019 17:00**
Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL
Dupe Init Wt./Vol.: Extract Vol:

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Matrix Spike Summary

Original Sample ID: 1195032001
MS Sample ID: 1530002 MS
MSD Sample ID:

Analysis Date: 08/30/2019 20:14
Analysis Date: 08/30/2019 20:33
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **EPA 300.0**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	0.100U	5.00	4.81	96				90-110		
Nitrite-N	0.100U	5.00	4.93	99				90-110		
Total Nitrate/Nitrite-N	0.100U	10.0	9.74	97				90-110		

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/30/2019 8:33:22PM

Prep Batch: WXX12992
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/30/2019 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 09/20/2019 10:20:14AM

Matrix Spike Summary

Original Sample ID: 1529999
MS Sample ID: 1530003 MS
MSD Sample ID:

Analysis Date: 08/31/2019 10:42
Analysis Date: 08/31/2019 11:03
Analysis Date:
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **EPA 300.0**

		Matrix Spike (mg/L)				Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)		Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Nitrate-N	33.6	20.0	49.1	78	*				90-110		
Nitrite-N	0.644J	20.0	20.2	98					90-110		

Batch Information

Analytical Batch: WIC5959
Analytical Method: EPA 300.0
Instrument: 930 Metrohm compact IC flex
Analyst: DMM
Analytical Date/Time: 8/31/2019 11:03:13AM

Prep Batch: WXX12992
Prep Method: EPA 300.0 Extraction Waters/Liquids
Prep Date/Time: 8/30/2019 5:00:00PM
Prep Initial Wt./Vol.: 10.00mL
Prep Extract Vol: 10.00mL

Print Date: 09/20/2019 10:20:14AM

Method Blank

Blank ID: MB for HBN 1799049 [WXX/12998]
Blank Lab ID: 1530177

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 4500-NH3 G**

Parameter	Results	LOQ/CL	DL	Units
Ammonia-N	0.0483J	0.100	0.0310	mg/L

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2019 3:07:51PM

Prep Batch: WXX12998
Prep Method: METHOD
Prep Date/Time: 9/5/2019 2:20:00PM
Prep Initial Wt./Vol.: 6 mL
Prep Extract Vol: 6 mL

Print Date: 09/20/2019 10:20:15AM

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [WXX12998]
Blank Spike Lab ID: 1530178
Date Analyzed: 09/05/2019 15:09

Spike Duplicate ID: LCSD for HBN 1195032 [WXX12998]
Spike Duplicate Lab ID: 1530179
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 4500-NH3 G**

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	1	1.06	106	1	1.07	107	(75-125)	0.78	(< 25)

Batch Information

Analytical Batch: **WDA4636**
Analytical Method: **SM21 4500-NH3 G**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX12998**
Prep Method: **METHOD**
Prep Date/Time: **09/05/2019 14:20**
Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL
Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL

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Matrix Spike Summary

Original Sample ID: 1199696001
MS Sample ID: 1530180 MS
MSD Sample ID: 1530181 MSD

Analysis Date: 09/05/2019 15:12
Analysis Date: 09/05/2019 15:14
Analysis Date: 09/05/2019 15:16
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

Results by **SM21 4500-NH3 G**

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Ammonia-N	0.0854J	1.00	1.25	117	1.00	1.27	118	75-125	1.30	(< 25)

Batch Information

Analytical Batch: WDA4636
Analytical Method: SM21 4500-NH3 G
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/5/2019 3:14:34PM

Prep Batch: WXX12998
Prep Method: Ammonia by SM21 4500F prep (W)
Prep Date/Time: 9/5/2019 2:20:00PM
Prep Initial Wt./Vol.: 6.00mL
Prep Extract Vol: 6.00mL

Print Date: 09/20/2019 10:20:17AM

Method Blank

Blank ID: MB for HBN 1799657 [WXX/13010]
Blank Lab ID: 1532874

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032003, 1195032005, 1195032007, 1195032008, 1195032010

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.00600J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 6:10:42PM

Prep Batch: WXX13010
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/13/2019 4:18:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [WXX13010]
Blank Spike Lab ID: 1532875
Date Analyzed: 09/16/2019 18:11

Spike Duplicate ID: LCSD for HBN 1195032 [WXX13010]
Spike Duplicate Lab ID: 1532876
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032003, 1195032005, 1195032007, 1195032008, 1195032010

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	0.193	96	0.2	0.190	95	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4640**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13010**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/13/2019 16:18**
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: 1199686001
MS Sample ID: 1532877 MS
MSD Sample ID: 1532878 MSD

Analysis Date: 09/16/2019 18:13
Analysis Date: 09/16/2019 18:14
Analysis Date: 09/16/2019 18:15
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032003, 1195032005, 1195032007, 1195032008, 1195032010

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

		Matrix Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Sample	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.0100U	0.200	.202	101	0.200	0.203	102	75-125	0.49	(< 25)

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 6:14:38PM

Prep Batch: WXX13010
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/13/2019 4:18:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:20:19AM

Method Blank

Blank ID: MB for HBN 1799659 [WXX/13011]
Blank Lab ID: 1532880

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032004, 1195032006, 1195032009, 1195032011

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

Parameter	Results	LOQ/CL	DL	Units
Total Phosphorus	0.0109J	0.0200	0.00500	mg/L

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:29:20PM

Prep Batch: WXX13011
Prep Method: SM21 4500P-B,E
Prep Date/Time: 9/16/2019 10:45:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [WXX13011]
Blank Spike Lab ID: 1532881
Date Analyzed: 09/16/2019 23:30

Spike Duplicate ID: LCSD for HBN 1195032 [WXX13011]
Spike Duplicate Lab ID: 1532882
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032004, 1195032006, 1195032009, 1195032011

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

	Blank Spike (mg/L)			Spike Duplicate (mg/L)					
Parameter	Spike	Result	Rec (%)	Spike	Result	Rec (%)	CL	RPD (%)	RPD CL
Total Phosphorus	0.2	0.199	99	0.2	0.191	96	(75-125)	3.70	(< 25)

Batch Information

Analytical Batch: **WDA4640**
Analytical Method: **SM21 4500P-B,E**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13011**
Prep Method: **SM21 4500P-B,E**
Prep Date/Time: **09/16/2019 22:45**
Spike Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL
Dupe Init Wt./Vol.: 0.2 mg/L Extract Vol: 25 mL

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Matrix Spike Summary

Original Sample ID: 1194990001
MS Sample ID: 1532883 MS
MSD Sample ID: 1532884 MSD

Analysis Date: 09/16/2019 23:32
Analysis Date: 09/16/2019 23:33
Analysis Date: 09/16/2019 23:34
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032004, 1195032006, 1195032009, 1195032011

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	0.637	1.00	1.49	85	1.00	1.49	86	75-125	0.57	(< 25)

Batch Information

Analytical Batch: WDA4640
Analytical Method: SM21 4500P-B,E
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/16/2019 11:33:13PM

Prep Batch: WXX13011
Prep Method: Total Phosphorus (W) Ext.
Prep Date/Time: 9/16/2019 10:45:00PM
Prep Initial Wt./Vol.: 5.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:20:22AM

Method Blank

Blank ID: MB for HBN 1799667 [WXX/13014]
Blank Lab ID: 1532956

Matrix: Water (Surface, Eff., Ground)

QC for Samples:
1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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: WDA4641
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/17/2019 8:11:52PM

Prep Batch: WXX13014
Prep Method: METHOD
Prep Date/Time: 9/17/2019 2:14:00PM
Prep Initial Wt./Vol.: 25 mL
Prep Extract Vol: 25 mL

Blank Spike Summary

Blank Spike ID: LCS for HBN 1195032 [WXX13014]
Blank Spike Lab ID: 1532957
Date Analyzed: 09/17/2019 20:13

Spike Duplicate ID: LCSD for HBN 1195032 [WXX13014]
Spike Duplicate Lab ID: 1532958
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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	3.94	99	4	3.88	97	(75-125)	1.50	(< 25)

Batch Information

Analytical Batch: **WDA4641**
Analytical Method: **SM21 4500-N D**
Instrument: **Discrete Analyzer 2**
Analyst: **DMM**

Prep Batch: **WXX13014**
Prep Method: **METHOD**
Prep Date/Time: **09/17/2019 14:14**
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: 1198801009
MS Sample ID: 1532959 MS
MSD Sample ID: 1532960 MSD

Analysis Date: 09/17/2019 20:18
Analysis Date: 09/17/2019 20:19
Analysis Date: 09/17/2019 20:20
Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1195032001, 1195032002, 1195032003, 1195032004, 1195032005, 1195032006, 1195032007, 1195032008, 1195032009, 1195032010, 1195032011

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	1.00U	4.00	3.58	89	4.00	4.15	104	75-125	14.80	(< 25)

Batch Information

Analytical Batch: WDA4641
Analytical Method: SM21 4500-N D
Instrument: Discrete Analyzer 2
Analyst: DMM
Analytical Date/Time: 9/17/2019 8:19:39PM

Prep Batch: WXX13014
Prep Method: Distillation TKN by Phenate (W)
Prep Date/Time: 9/17/2019 2:14:00PM
Prep Initial Wt./Vol.: 25.00mL
Prep Extract Vol: 25.00mL

Print Date: 09/20/2019 10:20:25AM

SGS **1195032**

SGS North America Inc.
CHAIN OF CUSTODY RECORD

Profile #348183

Locations Nationwide

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

www.us.sgs.com

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

Page 1 of 2

Section 1

CLIENT: Stantec

CONTACT: Jake Alward PHONE NO: 343-5202

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

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

INVOICE TO: QUOTE #: P.O. #: 2047004l5

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative: NaOH	NaOH	H_2SO_4	BOD	TSS	Nitrate/Nitrite	FC	TC (Quanti Tray)	TKN / Ammonia / TP	REMARKS/ LOC ID
(1) AF	SW11	8/29/19	10:07	water	6	G				1	1	1	1	1	1	
(2) AF	SW12		10:20							1	1	1	1	1	1	
(3) AF	SW13		10:32							1	1	1	1	1	1	
(4) AF	SW14		11:15							1	1	1	1	1	1	
(5) AF	SW15		11:00							1	1	1	1	1		
(6) AF	SW16		10:48							1	1	1	1	1	1	
(7) AF	SW17		11:42							1	1	1	1	1	1	
(8) AF	SW18		11:56							1	1	1	1	1	1	
(9) AF	Shaw		12:33							1	1	1	1	1	1	
(10) AF	Dup2		11:56							1	1	1	1	1	1	

Section 5

	Date	Time	
Relinquished By: (1)			Received By:
Relinquished By: (2)			Received By:
Relinquished By: (3)			Received By:
Relinquished By: (4)	8/29	1538	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: 5.0°C DSO

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

3.5°C DS2

F083-Kit_Request_and_COC_Templates-Blank
Revised 2013-03-24

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

Section 1

CLIENT:

CONTACT: PHONE NO:

PROJECT NAME: PROJECT/ PWSID/ PERMIT#:

REPORTS TO: E-MAIL:

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

Section 2

RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	# CONTAINERS	Type C = COMP G = GRAB MI = Multi Incre-mental Soils	Preservative										REMARKS/ LOC ID
										H_2SO_4	$NaOH$	H_2SO_4					
							BOD	TSS	Nitrate/Nitrite	FC	TC (Quanti-Tray)	TKN (Ammonia) TP					
(1) AF	Effluent	8/29/19	13:39	water	6	G	1	1	1	1	1	1					

Section 5

	Date	Time	Received By:
Relinquished By: (1)			
Relinquished By: (2)	Date	Time	Received By:
Relinquished By: (3)	Date	Time	Received By:
Relinquished By: (4)	Date 8/29	Time 1538	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:

or Ambient [ ]

(See attached Sample Receipt Form)

Chain of Custody Seal: (Circle)

INTACT BROKEN ABSENT

(See attached Sample Receipt Form)

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[ ] 5500 Business Drive Wilmington, NC 28405 Tel: (910) 350-1903 Fax: (910) 350-1557

e-Sample Receipt Form

SGS Workorder #: **1195032**

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	HD
COC accompanied samples?	Yes	
DOD: Were samples received in COC corresponding coolers?		
**Exemption permitted if chilled & collected <8 hours ago, or for samples where chilling is not required		
Temperature blank compliant* (i.e., 0-6 °C after CF)?	Yes	Cooler ID: 1 @ 5.0 °C Therm. ID: D50
	Yes	Cooler ID: 2 @ 3.5 °C Therm. ID: D52
If samples received without a temperature blank, the "cooler temperature" will be documented instead & "COOLER TEMP" will be noted to the right. "ambient" or "chilled" will be noted if neither is available.		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
		Cooler ID: @ °C Therm. ID:
*If >6°C, were samples collected <8 hours ago?	N/A	
If <0°C, were sample containers ice free?	N/A	
Note: Identify containers received at non-compliant temperature . Use form FS-0029 if more space is needed.		
Holding Time / Documentation / Sample Condition Requirements		Note: Refer to form F-083 "Sample Guide" for specific holding times.
Were samples received within holding time?	Yes	
Do samples **match COC**** (i.e.,sample IDs,dates/times collected)?	Yes	
**Note: If times differ <1hr, record details & login per COC.		
***Note: If sample information on containers differs from COC, SGS will default to COC informatic		
Were analytical requests clear? (i.e., method is specified for analyses with multiple option for analysis (Ex: BTEX, Metals)	Yes	
		***Exemption permitted for metals (e.g.200.8/6020A).
Were proper containers (type/mass/volume/preservative***)used?	Yes	
Volatile / LL-Hg Requirements		
Were Trip Blanks (i.e., VOAs, LL-Hg) in cooler with samples?	N/A	
Were all water VOA vials free of headspace (i.e., bubbles ≤ 6mm)?	N/A	
Were all soil VOAs field extracted with MeOH+BFB?	N/A	

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

Additional notes (if applicable):

Sample Containers and Preservatives

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1195032001-A	Na2S2O3 for Chlorine Redu	OK			
1195032001-B	Na2S2O3 for Chlorine Redu	OK			
1195032001-C	No Preservative Required	OK			
1195032001-D	H2SO4 to pH < 2	OK			
1195032001-E	No Preservative Required	OK			
1195032001-F	No Preservative Required	OK			
1195032002-A	Na2S2O3 for Chlorine Redu	OK			
1195032002-B	Na2S2O3 for Chlorine Redu	OK			
1195032002-C	No Preservative Required	OK			
1195032002-D	H2SO4 to pH < 2	OK			
1195032002-E	No Preservative Required	OK			
1195032002-F	No Preservative Required	OK			
1195032003-A	Na2S2O3 for Chlorine Redu	OK			
1195032003-B	Na2S2O3 for Chlorine Redu	OK			
1195032003-C	No Preservative Required	OK			
1195032003-D	H2SO4 to pH < 2	OK			
1195032003-E	No Preservative Required	OK			
1195032003-F	No Preservative Required	OK			
1195032004-A	Na2S2O3 for Chlorine Redu	OK			
1195032004-B	Na2S2O3 for Chlorine Redu	OK			
1195032004-C	No Preservative Required	OK			
1195032004-D	H2SO4 to pH < 2	OK			
1195032004-E	No Preservative Required	OK			
1195032004-F	No Preservative Required	OK			
1195032005-A	Na2S2O3 for Chlorine Redu	OK			
1195032005-B	Na2S2O3 for Chlorine Redu	OK			
1195032005-C	No Preservative Required	OK			
1195032005-D	H2SO4 to pH < 2	OK			
1195032005-E	No Preservative Required	OK			
1195032005-F	No Preservative Required	OK			
1195032006-A	Na2S2O3 for Chlorine Redu	OK			
1195032006-B	Na2S2O3 for Chlorine Redu	OK			
1195032006-C	No Preservative Required	OK			
1195032006-D	H2SO4 to pH < 2	OK			
1195032006-E	No Preservative Required	OK			
1195032006-F	No Preservative Required	OK			
1195032007-A	Na2S2O3 for Chlorine Redu	OK			
1195032007-B	Na2S2O3 for Chlorine Redu	OK			
1195032007-C	No Preservative Required	OK			
1195032007-D	H2SO4 to pH < 2	OK			
1195032007-E	No Preservative Required	OK			
1195032007-F	No Preservative Required	OK			
1195032008-A	Na2S2O3 for Chlorine Redu	OK			
1195032008-B	Na2S2O3 for Chlorine Redu	OK			
1195032008-C	No Preservative Required	OK			
1195032008-D	H2SO4 to pH < 2	OK			
1195032008-E	No Preservative Required	OK			
1195032008-F	No Preservative Required	OK			

Container Id	Preservative	Container Condition	Container Id	Preservative	Container Condition
1195032009-A	Na2S2O3 for Chlorine Redu	OK			
1195032009-B	Na2S2O3 for Chlorine Redu	OK			
1195032009-C	No Preservative Required	OK			
1195032009-D	H2SO4 to pH < 2	OK			
1195032009-E	No Preservative Required	OK			
1195032009-F	No Preservative Required	OK			
1195032010-A	Na2S2O3 for Chlorine Redu	OK			
1195032010-B	Na2S2O3 for Chlorine Redu	OK			
1195032010-C	No Preservative Required	OK			
1195032010-D	H2SO4 to pH < 2	OK			
1195032010-E	No Preservative Required	OK			
1195032010-F	No Preservative Required	OK			
1195032011-A	Na2S2O3 for Chlorine Redu	OK			
1195032011-B	Na2S2O3 for Chlorine Redu	OK			
1195032011-C	No Preservative Required	OK			
1195032011-D	H2SO4 to pH < 2	OK			
1195032011-E	No Preservative Required	OK			
1195032011-F	No Preservative Required	OK			

Container Condition Glossary

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

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