

Laboratory Report of Analysis

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

Report Number: 1200481

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 Project Manager Justin.Nelson@sgs.com Date

Print Date: 02/19/2020 1:17:39PM

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1200481 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

1200481001MS (1551151) MS

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

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

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Laboratory Qualifiers

Enclosed are the analytical results associated with the above work order. The results apply to the samples as received. All results are intended to be used in their entirety and SGS is not responsible for use of less than the complete report. This document is issued by the Company under its General Conditions of Service accessible at <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. 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 (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	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.
Sample summaries which i	nclude a result for "Total Solids" have already been adjusted for moisture content.
All DRO/RRO analyses are	e integrated per SOP.

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Note:

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	S	Sample Summary		
Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>
MW20	1200481001	02/05/2020	02/05/2020	Water (Surface, Eff., Ground)
Shaw	1200481002	02/05/2020	02/05/2020	Water (Surface, Eff., Ground)
MW14A	1200481003	02/05/2020	02/05/2020	Water (Surface, Eff., Ground)
MW14B	1200481004	02/05/2020	02/05/2020	Water (Surface, Eff., Ground)
<u>Method</u>	Method Des	<u>cription</u>		
SM21 4500-NH3 G	Ammonia-N	(W) SM21 4500-N	NH3 G	
SM21 5210B	Biochemical	Oxygen Demand	SM21 5210B	
SM21 9222D	Fecal Colifor	rm (MF)		
EPA 300.0	Ion Chromat	tographic Analysis		
SM23 4500-N D	TKN by Phe	nate (W)		
SM21 9223B	Total Colifor	m P/A Quant Tray	1	
SM21 4500P-B,E	Total Phosp	horus (W)		



Detectable Results Summary Client Sample ID: MW20 Lab Sample ID: 1200481001 Parameter Result Units Ammonia-N 0.0659J mg/L Waters Department Total Nitrate/Nitrite-N 0.0920J mg/L Client Sample ID: Shaw Lab Sample ID: 1200481002 Parameter Result Units **Biochemical Oxygen Demand** 11.0 mg/L **Microbiology Laboratory** E. Coli 40 MPN/100mL Fecal Coliform 91 col/100mL **Total Coliform** 640 MPN/100mL Nitrate-N 0.125J mg/L Waters Department Total Kjeldahl Nitrogen 11.0 mg/L Total Nitrate/Nitrite-N 0.125J mg/L **Total Phosphorus** 6.22 mg/L Client Sample ID: MW14A Lab Sample ID: 1200481003 Result Units Parameter Waters Department Nitrate-N 0.164J mg/L Total Nitrate/Nitrite-N 0.164J mg/L Client Sample ID: MW14B Lab Sample ID: 1200481004 Parameter Result <u>Units</u> Ammonia-N 0.180 mg/L Waters Department Total Kjeldahl Nitrogen 0.668J mg/L

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Results of MW20							
Client Sample ID: MW20 Client Project ID: Wasilla WWTP Lab Sample ID: 1200481001 Lab Project ID: 1200481	C R M S La						
Parameter Fecal Coliform	<u>Result Qual</u> 1.67 U	<u>LOQ/CL</u> 1.67	<u>DL</u> 1.67	<u>Units</u> col/100ml	<u>DF</u> _ 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/05/20 17:46
Analytical Batch: BTF17907 Analytical Method: SM21 9222D Analyst: M.A Analytical Date/Time: 02/05/20 17:46 Container ID: 1200481001-B							

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Results of MW20 Client Sample ID: MW20 Client Project ID: Wasilla WWTP Lab Sample ID: 1200481001 Lab Project ID: 1200481							
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.100 U 0.100 U 0.0920 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 02/05/20 21:2 ⁻ 02/05/20 21:2 ⁻ 02/05/20 21:2 ⁻
Batch Information Analytical Batch: WIC6018 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 02/05/20 21:21 Container ID: 1200481001-A			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13197 METHOD ne: 02/05/2 (t./Vol.: 10 Vol: 10 mL	20 15:30 mL		
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0659 J	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzec</u> 02/13/20 15:25
Batch Information Analytical Batch: WDA4737 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 02/13/20 15:25 Container ID: 1200481001-C			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13199 : METHOD ne: 02/13/2 't./Vol.: 6 m Vol: 6 mL	20 11:15 IL		
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 0.500 U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed
Batch Information							
Analytical Batch: WDA4734 Analytical Method: SM23 4500-N D Analyst: DMM Analytical Date/Time: 02/06/20 10:17 Container ID: 1200481001-C			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13194 METHOD ne: 02/05/2 't./Vol.: 25 nL Vol: 25 mL	20 17:13 mL		

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Results of Shaw							
Client Sample ID: Shaw Client Project ID: Wasilla WWTP Lab Sample ID: 1200481002 Lab Project ID: 1200481	C R M S L	ollection Da eceived Dat latrix: Water olids (%): ocation:	te: 02/05/ e: 02/05/2 (Surface,	20 11:18 20 16:11 Eff., Gro	und)		
Results by							
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.562	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> Limits	<u>Date Analyzed</u> 02/06/20 13:58
Batch Information Analytical Batch: WDA4735 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 02/06/20 13:58 Container ID: 1200481002-E			Prep Batch: \ Prep Method: Prep Date/Tir Prep Initial W Prep Extract \	WXX13195 METHOD ne: 02/06/2 t./Vol.: 6 m Vol: 6 mL	20 10:16 L		

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Client Complet ID: Chow		0	alloction D	ata: 02/05/20	11.10		
Client Sample ID: Shaw Client Project ID: Wasilla WWTP Lab Sample ID: 1200481002 Lab Project ID: 1200481		Received Date: 02/05/20 11:18 Received Date: 02/05/20 16:11 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Microbiology Laboratory							
<u>Parameter</u> Biochemical Oxygen Demand	<u>Result Qual</u> 11.0	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 02/06/20 16:53
Batch Information							
Analytical Batch: BOD6528 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 02/06/20 16:53 Container ID: 1200481002-C							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 91	<u>LOQ/CL</u> 90.9	<u>DL</u> 90.9	<u>Units</u> col/100mL	<u>DF</u> . 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/05/20 17:46
Batch Information Analytical Batch: BTF17907 Analytical Method: SM21 9222D Analyst: M.A Analytical Date/Time: 02/05/20 17:46 Contriant ID: 1200484002 B							
Container ID. 1200401002-b							
Parameter E. Coli	<u>Result Qual</u> 40	<u>LOQ/CL</u> 20	<u>DL</u> 20	<u>Units</u> MPN/100r	<u>DF</u> 120	<u>Allowable</u> <u>Limits</u>	Date Analyzed 02/05/20 17:01
I otal Coliform	640	20	20	MPN/100	120		02/05/20 17:01
Batch Information Analytical Batch: BTF17909 Analytical Method: SM21 9223B Analyst: M.A Analytical Date/Time: 02/05/20 17:01 Container ID: 1200481002-D							

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Results of Shaw Client Sample ID: Shaw Client Project ID: Wasilla WWTP Lab Sample ID: 1200481002 Lab Project ID: 1200481	I		Collection Da Received Da Matrix: Water Solids (%): Location:	tte: 02/05/ te: 02/05/2 (Surface,	20 11:18 20 16:11 Eff., Gro	und)	
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.125 J 0.100 U 0.125 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 02/05/20 21:4 02/05/20 21:4 02/05/20 21:4
Batch Information							
Analytical Batch: WIC6018 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 02/05/20 21:42 Container ID: 1200481002-A			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13197 METHOD ne: 02/05/2 't./Vol.: 10 Vol: 10 mL	20 15:30 mL		
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 6.22	<u>LOQ/CL</u> 2.00	<u>DL</u> 0.600	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 02/18/20 17:
Batch Information							
Analytical Batch: WDA4739 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 02/18/20 17:56 Container ID: 1200481002-E			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13203 : SM21 450 me: 02/18/2 (t./Vol.: 0.5 Vol: 25 mL	00P-B,E 20 16:12 mL		
_						Allowable	
<u>Parameter</u> Total Kjeldahl Nitrogen	Result Qual 11.0	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Limits</u>	<u>Date Analyze</u> 02/06/20 10:
Batch Information							
Analytical Batch: WDA4734 Analytical Method: SM23 4500-N D Analyst: DMM Analytical Date/Time: 02/06/20 10:26 Container ID: 1200481002-E			Prep Batch: Prep Method: Prep Date/Tir Prep Initial W Prep Extract	WXX13194 METHOD me: 02/05/2 (t./Vol.: 25 n Vol: 25 mL	20 17:13 mL		

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Results of MW14A							
Client Sample ID: MW14A Client Project ID: Wasilla WWTP Lab Sample ID: 1200481003 Lab Project ID: 1200481			Coll Rec Mat Soli Loc	lection D ceived Da rix: Wate ds (%): ation:	ate: 02/05/ ate: 02/05/2 er (Surface,	20 12:29 20 16:11 Eff., Gro) ound)
Results by Microbiology Laboratory							
Parameter	Result Qual	LOQ/CL		<u>DL</u>	<u>Units</u>	DF	<u>Allowabl</u> <u>Limits</u>
Fecal Coliform	1.64 U	1.64		1.64	col/100r	nL 1	

Analytical Batch: BTF17907 Analytical Method: SM21 9222D Analyst: M.A Analytical Date/Time: 02/05/20 17:46 Container ID: 1200481003-B

Print Date: 02/19/2020 1:17:46PM

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Date Analyzed 02/05/20 17:46

Results of MW14A Client Sample ID: MW14A Client Project ID: Wasilla WWTP Lab Sample ID: 1200481003 Lab Project ID: 1200481		(Collection Da Received Dat Matrix: Water Solids (%): Location:	te: 02/05/ e: 02/05/2 (Surface,	20 12:29 20 16:11 Eff., Gro	und)	
Results by Waters Department							
<u>Parameter</u> Nitrate-N Nitrite-N Total Nitrate/Nitrite-N	<u>Result Qual</u> 0.164 J 0.100 U 0.164 J	LOQ/CL 0.200 0.200 0.200	<u>DL</u> 0.0500 0.0500 0.0500	<u>Units</u> mg/L mg/L mg/L	<u>DF</u> 1 1 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 02/05/20 22:0 02/05/20 22:0 02/05/20 22:0
Batch Information							
Analytical Batch: WIC6018 Analytical Method: EPA 300.0 Analyst: DMM Analytical Date/Time: 02/05/20 22:01 Container ID: 1200481003-A			Prep Batch: N Prep Method: Prep Date/Tin Prep Initial W Prep Extract N	WXX13197 METHOD ne: 02/05/2 t./Vol.: 10 r /ol: 10 mL	20 15:30 mL		
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 0.0500 U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyze 02/13/20 15:3
Batch Information							
Analytical Batch: WDA4737 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 02/13/20 15:34 Container ID: 1200481003-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial Wi Prep Extract \	WXX13199 METHOD ne: 02/13/2 t./Vol.: 6 m Vol: 6 mL	20 11:15 L		
Parameter	<u>Result Qual</u>	LOQ/CL	DL	<u>Units</u>	<u>DF</u>	Allowable Limits	Date Analyzed
Total Kjeldahl Nitrogen	0.500 U	1.00	0.310	mg/L	1		02/06/20 10:2
Batch Information Analytical Batch: WDA4734 Analytical Method: SM23 4500-N D Analyst: DMM Analytical Date/Time: 02/06/20 10:27 Container ID: 1200481003-C			Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W: Prep Extract \	WXX13194 METHOD ne: 02/05/2 t./Vol.: 25 n Vol: 25 mL	20 17:13 mL		

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		Collection Da Received Da Matrix: Water	ite: 02/05/ te: 02/05/2	20 12:35		
		Solids (%): Location:	r (Surface,	Eff., Gro	und)	
<u>⊧ult Qual</u> 80	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 02/13/20 15::
		Prep Batch: Prep Method Prep Date/Tir Prep Initial W Prep Extract	WXX13199 : METHOD me: 02/13/2 /t./Vol.: 6 m Vol: 6 mL	20 11:15 L		
ult Qual	LOQ/CL	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	Date Analyz
68 J	1.00	0.310	mg/L	1		02/18/20 12:
; (ult Qual 30 ult Qual 68 J	ult Qual LOQ/CL 30 0.100 ult Qual LOQ/CL 58 J 1.00	ult Qual LOQ/CL DL 30 0.100 0.0310 Prep Batch: Prep Method Prep Date/Tin Prep Initial W Prep Extract ult Qual LOQ/CL DL 38 J 1.00 0.310 Prep Batch: Prep Batch: Prep Method Prep Batch: Prep Date/Tin Prep Method Prep Date/Tin Prep Date/Tin Prep Date/Tin Prep Date/Tin Prep Initial W Prep Date/Tin	ult Qual LOQ/CL DL Units 30 0.100 0.0310 mg/L Prep Batch: WXX13199 Prep Method: METHOD Prep Date/Time: 02/13/2 Prep Initial Wt./Vol.: 6 mL ult Qual LOQ/CL DL Units 38 J 1.00 0.310 mg/L Prep Batch: WXX13202 Prep Method: METHOD Prep Date/Time: 02/14/2 Prep Initial Wt./vol.: 25 rep Initial Wt./vol.: 25 rep	ult Qual 30LOQ/CL 0.100DL 0.0310Units mg/LDF 1Prep Batch:WXX13199 Prep Method:METHOD Prep Date/Time:02/13/20 11:15 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mLult Qual 58 JLOQ/CL 1.00DL 0.310Units mg/LDF 1Prep Batch:WXX13202 Prep Method:METHOD Prep Date/Time:02/14/20 08:03 Prep Date/Time:02/14/20 08:03 Prep Date/Time:	Allowable ult Qual LOQ/CL DL Units DE Limits 30 0.100 0.0310 mg/L 1 Limits Base 0.100 0.0310 mg/L 1 Limits Prep Batch: WXX13199 Prep Method: METHOD Prep Date/Time: 02/13/20 11:15 Prep Date/Time: 02/13/20 11:15 Prep Initial Wt./Vol.: 6 mL Prep Extract Vol: 6 mL ult Qual LOQ/CL DL Units DE Limits 38 J 1.00 0.310 mg/L 1 Imits Prep Batch: WXX13202 Prep Date/Time: 02/14/20 08:03 Prep Date/Time: 02/14/20 08:03 Prep Initial Wt (Vol.): 25 ml ml

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Method Blank					
Blank ID: MB for HBN 18042 Blank Lab ID: 1550680	247 [BOD/6528]	Matrix	: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1200481002					
Results by SM21 5210B					
Parameter	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	
Biochemical Oxygen Demand	2.00U	2.00	2.00	mg/L	
Batch Information					
Analytical Batch: BOD6528 Analytical Method: SM21 52 Instrument: Analyst: A.L Analytical Date/Time: 2/6/20	210B 020 4:53:34PM				

SGS	

Blank Spike Summary				
Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1550681 Date Analyzed: 02/06/2020	1200481 [B 16:53	OD6528]		Matrix: Water (Surface, Eff., Ground)
QC for Samples: 12004810	02			
Results by SM21 5210B]	
	Bla	ank Spike (m	ng/L)	
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>
Biochemical Oxygen Demand	198	202	102	(84.6-115.4
Details in farma attain				
Batch Information				
Analytical Batch: BOD6528 Analytical Method: SM21 5210 Instrument: Analyst: A.L	В			
Print Date: 02/19/2020 1:17:50PM				

Method Blank					
Blank ID: MB for HBN 1 Blank Lab ID: 1550688	804214 [BTF/17907]	Matrix	k: Water (Surf	ace, Eff., Ground)	
QC for Samples: 1200481001, 1200481002	2, 1200481003				
Results by SM21 9222))			
Parameter	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	
Fecal Coliform	1.00U	1.00	1.00	col/100mL	
Batch Information					
Analytical Batch: BTF Analytical Method: SM Instrument: Analyst: M.A Analytical Date/Time:	17907 121 9222D 2/5/2020 5:46:00PM				

Print Date: 02/19/2020 1:17:52PM

Mathed Blank		1			
Blank ID: MB for HBN Blank Lab ID: 155053 QC for Samples: 1200481002	l 1804222 [BTF/17909] 3	Matri	x: Water (Sur	face, Eff., Ground)	
Results by SM21 922	3B)			
<u>Parameter</u> Total Coliform E. Coli	<u>Results</u> 1U 1U	<u>LOQ/CL</u> 1 1	<u>DL</u> 1 1	<u>Units</u> MPN/100m MPN/100m	
Analytical Method: S Instrument: Analyst: M.A Analytical Date/Time	SM21 9223B :: 2/5/2020 5:01:00PM				

Blank ID: MB for HBN 1804 Blank Lab ID: 1550581	4231 [WXX/13194]	Matrix	x: Water (Surfa	ice, Eff., Ground)	
0C for Samples: 200481001, 1200481002, 12	200481003				
Results by SM23 4500-N E)				
Parameter	Results	LOQ/CL	<u>DL</u>	Units	
Analytical Batch: WDA47: Analytical Method: SM23 Instrument: Discrete Anal Analyst: DMM	34 4500-N D yzer 2	Prep Ba Prep Me Prep Da Prep Ini	atch: WXX13194 ethod: METHOE ate/Time: 2/5/20 tial Wt./Vol.: 25 tract Vol.: 25 m	l) 20 5:13:00PM mL	

Print Date: 02/19/2020 1:18:00PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1200481 [WXX13194] Blank Spike Lab ID: 1550582 Date Analyzed: 02/06/2020 10:12 Spike Duplicate ID: LCSD for HBN 1200481 [WXX13194] Spike Duplicate Lab ID: 1550583 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481002, 1200481003

Results by SM23 4500-N D									
		Blank Spike	e (mg/L)	5	Spike Duplie	cate (mg/L)			
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Kjeldahl Nitrogen	4	3.99	100	4	4.01	100	(75-125)	0.45	(< 25)
Analytical Batch: WDA4734 Analytical Method: SM23 450 Instrument: Discrete Analyze Analyst: DMM	00-N D er 2			Pre Pre Pre Spil Dup	o Batch: W o Method: o Date/Tim ke Init Wt./\ oe Init Wt./\	/XX13194 METHOD e: 02/05/202 /ol.: 4 mg/L /ol.: 4 mg/L	20 17:13 Extract Vol: Extract Vol:	: 25 mL 25 mL	

Print Date: 02/19/2020 1:18:02PM



Matrix Spike Summary

Original Sample ID: 1200481001 MS Sample ID: 1550584 MS MSD Sample ID: 1550585 MSD Analysis Date: 02/06/2020 10:17 Analysis Date: 02/06/2020 10:19 Analysis Date: 02/06/2020 10:20 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481002, 1200481003

Results by SM23 4500-N D										
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
Parameter	Sample	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
lotal Kjeldani Nitrogen	0.5000	4.00	4.21	105	4.00	3.62	90	75-125	15.10	(< 25)
Batch Information										
Analytical Batch: WDA4734				Prep	Batch: V	NXX13194	ļ 			
Analytical Method: SM23 45	500-N D			Prep	Method:	Distillatio	n TKN by P	henate (W)	
Instrument: Discrete Analyz	er 2			Prep	Date/ I in	ne: 2/5/20	20 5:13:00	PM		
Analyst: DMM				Prep		(./VOI.: 25.	.00mL			
Analytical Date/Time: 2/6/20	JZU 10:19:03/	AIVI		Prep	Extract \	/01: 25.00	mL			

Print Date: 02/19/2020 1:18:04PM

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lethod Blank					
lank ID: MB for HBN 1 lank Lab ID: 1550636	804240 [WXX/13195]	Matrix	k: Water (Surfac	ce, Eff., Ground)	
C for Samples: 200481002					
esults by SM21 4500-	NH3 G	<u>.</u>			
<u>arameter</u> mmonia-N	<u>Results</u> 0.0500U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
tch Information					
Analytical Batch: WDA Analytical Method: SM Instrument: Discrete An Analyst: DMM Analytical Date/Time: 2	4735 21 4500-NH3 G nalyzer 2 2/6/2020 1:50:17PM	Prep Ba Prep Me Prep Da Prep Init Prep Ex	tch: WXX13195 tthod: METHOD te/Time: 2/6/202 tial Wt./Vol.: 6 m tract Vol: 6 mL	20 10:16:00AM L	



Blank Spike ID: LCS for H Blank Spike Lab ID: 1550 Date Analyzed: 02/06/20	HBN 1200481 0637 020 13:51	[WXX1319	95]	Spil [W> Spil Mat	ke Duplica (X13195] ke Duplica rix: Wate	ate ID: LCS ate Lab ID: r (Surface,	D for HBN 1 1550638 Eff., Ground	200481	
QC for Samples: 1200	481002								
Results by SM21 4500-N	H3 G								
<u>Parameter</u> Ammonia-N	<u>Spike</u> 1	Blank Spike <u>Result</u> 1.11	e (mg/L) <u>Rec (%)</u> 111	S <u>Spike</u> 1	pike Duplic <u>Result</u> 1.13	cate (mg/L) <u>Rec (%)</u> 113	<u>CL</u> (75-125)	<u>RPD (%)</u> 2.00	<u>RPD CL</u> (< 25)
Satch Information Analytical Batch: WDA47 Analytical Method: SM21 Instrument: Discrete Ana	35 4500-NH3 G Iyzer 2			Prej Prej Prej) Batch: W) Method:) Date/Time	/XX13195 METHOD e: 02/06/202	0 10:16		
Analyst: DMM				Spik Dup	e Init Wt./\ e Init Wt./\	/ol.: 1 mg/L /ol.: 1 mg/L	Extract Vol: Extract Vol:	6 mL 6 mL	



• Matrix Spike Summary Original Sample ID: 120	,)0481002				Analysis	Date: 0	2/06/2020	13:58		
MS Sample ID: 155063 MSD Sample ID: 15506	89 MS 640 MSD				Analysis Analysis Matrix:	Date: 02 Date: 02 Date: 02 Water (Si	2/06/2020 2/06/2020 urface, Eff.	14:00 14:01 , Ground))	
QC for Samples: 12004	481002					X	,	· ,		
Results by SM21 4500-	NH3 G									
Darameter	Sample	Ma Spiko	trix Spike (mg/L) Rec (%)	Spike	e Duplicate	e (mg/L)	CL		
Ammonia-N	0.562	1.00	1.69	113	1.00	1.68	112	<u>01</u> 75-125	0.47	(< 25)
Batch Information										
Analytical Batch: WDA	4735			Prep	Batch: \	WXX13195	5			
Analytical Method: SM2	21 4500-NH3 G			Prep	Method:	Ammonia	1 by 4500F [20 10:16:00	Distillation	prep (W)	
Analyst: DMM				Prep	Initial W	t./Vol.: 6.0	0mL			
Analytical Date/Time: 2	2/6/2020 2:00:13P	M		Prep	Extract \	/ol: 6.00m	۱L			

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Blank ID: MB for HBN 1804274 [WXX/13197] Matrix: Water (Surface, Eff., Ground) Blank Lab ID: 1550764 QC for Samples: 1200481001, 1200481002, 1200481003 Image: Construction of the second s	Method Blank				
QC for Samples: 1200481001, 1200481002, 1200481003 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 Nitrate/Nitrite-N 0.0820J 0.200 0.0500 mg/L Satch Information Prep Batch: WXX13197 Prep Method: EPA 300.0 Prep Method: METHOD Analytical Batch: WIC6018 Prep Method: METHOD Prep Date/Time: 2/5/2020 3:30:00PM Prep Initial Wt./Vol.: 10 mL Analytical Date/Time: 2/5/2020 3:56:25PM Prep Extract Vol: 10 mL Prep Extract Vol: 10 mL	Blank ID: MB for HBN 180 Blank Lab ID: 1550764	04274 [WXX/13197]	Matri	x: Water (Surfa	ce, Eff., Ground)
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 0.0820J 0.200 0.0500 mg/L Analytical Batch: WIC6018 Analytical Batch: WIC6018 Prep Batch: WXX13197 Analytical Method: EPA 300.0 Prep Method: METHOD Prep Date/Time: 2/5/2020 3:30:00PM Instrument: 930 Metrohm compact IC flex Prep Initial Wt./Vol.: 10 mL Prep Initial Wt./Vol.: 10 mL Analytical Date/Time: 2/5/2020 3:56:25PM Prep Extract Vol: 10 mL	QC for Samples: 1200481001, 1200481002, 1	1200481003			
ParameterResultsLOQ/CLDLUnitsNitrate-N0.100U0.2000.0500mg/LNitrite-N0.100U0.2000.0500mg/LTotal Nitrate/Nitrite-N0.0820J0.2000.0500mg/Latch InformationAnalytical Batch: WIC6018 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 2/5/2020Prep Batch: WXX13197 Prep Method: METHOD Prep Date/Time: 2/5/2020Prep Date/Time: 2/5/20203:30:00PM 	Results by EPA 300.0				
Nitrate-N0.100U0.2000.0500mg/LNitrite-N0.100U0.2000.0500mg/LTotal Nitrate/Nitrite-N0.0820J0.2000.0500mg/LEatch InformationAnalytical Batch: WIC6018 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 2/5/2020Prep Method: METHOD Prep Initial Wt./Vol.: 10 mL Prep Extract Vol: 10 mL	Parameter	Results	LOQ/CL	DL	<u>Units</u>
Nitrite-N0.100U0.2000.0500mg/LTotal Nitrate/Nitrite-N0.0820J0.2000.0500mg/Latch InformationAnalytical Batch: WIC6018 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Analytical Date/Time: 2/5/2020Prep Batch: WXX13197 Prep Method: METHOD Prep Date/Time: 2/5/20203:30:00PM Prep Initial Wt./Vol.: 10 mLAnalytical Date/Time: 2/5/20203:56:25PMPrep Extract Vol: 10 mL	Nitrate-N	0.100U	0.200	0.0500	mg/L
Total Nitrate/Nitrite-N 0.0820J 0.200 0.0500 mg/L atch Information Prep Batch: WXX13197 Analytical Batch: WIC6018 Prep Batch: WXX13197 Prep Method: METHOD Instrument: 930 Metrohm compact IC flex Prep Date/Time: 2/5/2020 3:30:00PM Analytical Date/Time: 2/5/2020 3:56:25PM Prep Initial Wt./Vol.: 10 mL	Nitrite-N	0.100U	0.200	0.0500	mg/L
Analytical Batch: WIC6018Prep Batch: WXX13197Analytical Method: EPA 300.0Prep Method: METHODInstrument: 930 Metrohm compact IC flexPrep Date/Time: 2/5/2020 3:30:00PMAnalyst: DMMPrep Initial Wt./Vol.: 10 mLAnalytical Date/Time: 2/5/2020 3:56:25PMPrep Extract Vol: 10 mL	otal Nitrate/Nitrite-N	0.0820J	0.200	0.0500	mg/L
Analytical Batch: WIC6018Prep Batch: WXX13197Analytical Method: EPA 300.0Prep Method: METHODInstrument: 930 Metrohm compact IC flexPrep Date/Time: 2/5/2020 3:30:00PMAnalyst: DMMPrep Initial Wt./Vol.: 10 mLAnalytical Date/Time: 2/5/2020 3:56:25PMPrep Extract Vol: 10 mL	atch Information				
Analytical Method: EPA 300.0Prep Method: METHODInstrument: 930 Metrohm compact IC flexPrep Date/Time: 2/5/2020 3:30:00PMAnalyst: DMMPrep Initial Wt./Vol.: 10 mLAnalytical Date/Time: 2/5/2020 3:56:25PMPrep Extract Vol: 10 mL	Analytical Batch: WIC60	18	Prep Ba	tch: WXX13197	
Instrument:930 Metrohm compact IC flexPrep Date/Time:2/5/20203:30:00PMAnalyst:DMMPrep Initial Wt./Vol.:10 mLAnalytical Date/Time:2/5/20203:56:25PMPrep Extract Vol:10 mL	Analytical Method: EPA	300.0	Prep Me	ethod: METHOD	
Analyst: DMMPrep Initial Wt./Vol.: 10 mLAnalytical Date/Time: 2/5/2020 3:56:25PMPrep Extract Vol: 10 mL	Instrument: 930 Metrohm	n compact IC flex	Prep Da	te/Time: 2/5/202	20 3:30:00PM
Analytical Date/Time: 2/5/2020 3:56:25PM Prep Extract Vol: 10 mL	Analyst: DMM		Prep Ini	tial Wt./Vol.: 10 i	mL
	Analytical Date/Time: 2/5	5/2020 3:56:25PM	Prep Ex	tract vol: 10 mL	
		72020 0.00.201 W			

Print Date: 02/19/2020 1:18:10PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1200481 [WXX13197] Blank Spike Lab ID: 1550765 Date Analyzed: 02/05/2020 16:15

Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481002, 1200481003

Results b	y EPA	300.0
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,,,,				
	I	Blank Spike	e (mg/L)	
Parameter	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>
Nitrate-N	5	5.06	101	(90-110)
Nitrite-N	5	5.01	100	(90-110)
Total Nitrate/Nitrite-N	10	10.1	101	(90-110)

Batch Information

Analytical Batch: WIC6018 Analytical Method: EPA 300.0 Instrument: 930 Metrohm compact IC flex Analyst: DMM Prep Batch: WXX13197 Prep Method: METHOD Prep Date/Time: 02/05/2020 15:30 Spike Init Wt./Vol.: 5 mg/L Extract Vol: 10 mL Dupe Init Wt./Vol.: Extract Vol:

Print Date: 02/19/2020 1:18:13PM

Matrix Spike Summary

Original Sample ID: 1550763 MS Sample ID: 1550767 MS MSD Sample ID: Analysis Date: 02/05/2020 16:53 Analysis Date: 02/05/2020 17:12 Analysis Date: Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481002, 1200481003

Results by EPA 300.0										
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
Parameter	<u>Sample</u>	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	<u>Result</u>	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Nitrate-N	0.0970J	5.00	5.19	102				90-110		
Nitrite-N	0.100U	5.00	4.81	96				90-110		
Batch Information Analytical Batch: WIC6018 Analytical Method: EPA 300 Instrument: 930 Metrohm c Analyst: DMM Analytical Date/Time: 2/5/20	0.0 ompact IC flex 020 5:12:25P	M		Prep Prep Prep Prep Prep) Batch: \) Method:) Date/Tin) Initial Wi) Extract \	NXX13197 EPA 300 ne: 2/5/20 t./Vol.: 10. /ol: 10.00	7 .0 Extraction 20 3:30:00 .00mL mL	n Waters/L IPM	iquids	

Print Date: 02/19/2020 1:18:14PM

Method Blank Blank ID: MB for HBN 1804380 [WXX/13199] Blank Lab ID: 1551148 QC for Samples: 1200481001, 1200481003, 1200481004		Matri			
Results by SM21 450 Parameter Ammonia-N	00-NH3 G <u>Results</u> 0.0500U	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	
Batch Information Analytical Batch: WDA4737 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: DMM Analytical Date/Time: 2/13/2020 3:12:25PM		Prep Ba Prep Me Prep Da Prep Ini Prep Ex	tch: WXX13199 ethod: METHOE ite/Time: 2/13/2 tial Wt./Vol.: 6 r tract Vol: 6 mL	9) 020 11:15:00AM nL	

Print Date: 02/19/2020 1:18:16PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1200481 [WXX13199] Blank Spike Lab ID: 1551149 Date Analyzed: 02/13/2020 15:14 Spike Duplicate ID: LCSD for HBN 1200481 [WXX13199] Spike Duplicate Lab ID: 1551150 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481003, 1200481004

Results by SM21 4500	NH3 G		_						
		Blank Spike	e (mg/L)	5	Spike Dupli	cate (mg/L)			
<u>Parameter</u>	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.15	115	1	1.21	121	(75-125)	4.80	(< 25)
Batch Information Analytical Batch: WDA4737 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: DMM				Pre Pre Pre Spil	p Batch: N p Method: p Date/Tim ke Init Wt./\	/XX13199 METHOD e: 02/13/202 /ol.: 1 mg/L	20 11:15 Extract Vol:	: 6 mL	

Print Date: 02/19/2020 1:18:18PM



Matrix Spike Summary

Original Sample ID: 1200481001 MS Sample ID: 1551151 MS MSD Sample ID: 1551152 MSD Analysis Date: 02/13/2020 15:25 Analysis Date: 02/13/2020 15:27 Analysis Date: 02/13/2020 15:32 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200481001, 1200481003, 1200481004

Results by SM21 4500-NH3	G										
		Ma	trix Spike (mg/L)		Spike	e Duplicate	e (mg/L)			
Parameter	<u>Sample</u>	Spike	Result	<u>Rec</u>	(%)	Spike	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL
Ammonia-N	0.0659J	1.00	.785	72	*	1.00	0.976	91	75-125	21.70	(< 25)
Batch Information Analytical Batch: WDA4737 Analytical Method: SM21 4 Instrument: Discrete Analyz Analyst: DMM Analytical Date/Time: 2/13/2	, 500-NH3 G 2er 2 2020 3:27:26	PM			Prep Prep Prep Prep Prep	9 Batch: V 9 Method: 9 Date/Tin 9 Initial Wt 9 Extract V	VXX13199 Ammonia ne: 2/13/2 ./Vol.: 6.0 /ol: 6.00m) i by SM21 4 020 11:15:(0mL 1L	500F prep 00AM	(W)	

Print Date: 02/19/2020 1:18:19PM

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-Method Blank	
Blank ID: MB for HBN 1804475 [WXX/13202] Blank Lab ID: 1551492	2] Matrix: Water (Surface, Eff., Ground)
QC for Samples: 1200481004	
Results by SM23 4500-N D	
ParameterResultsTotal Kjeldahl Nitrogen0.500U	<u>LOQ/CL</u> <u>DL</u> <u>Units</u> 1.00 0.310 mg/L
Batch Information	
Analytical Batch: WDA4738 Analytical Method: SM23 4500-N D Instrument: Discrete Analyzer 2 Analyst: DMM Analytical Date/Time: 2/18/2020 12:20:05PM	Prep Batch: WXX13202 Prep Method: METHOD Prep Date/Time: 2/14/2020 8:03:00AM Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL



<u>PD (%)</u> <u>RPD CL</u>
.40 (< 25)
mL ml
5



Matrix Spike Summary Original Sample ID: 120000	05002				Analysis	Date: 02	2/18/2020	12:26		
MS Sample ID: 1551495 MS MSD Sample ID: 1551496 MSD					Analysis Analysis Matrix:	Date: 02 Date: 02 Water (Si	2/18/2020 2/18/2020 urface, Eff.	12:27 12:29 , Ground))	
QC for Samples: 12004810	004									
- Results by SM23 4500-N D		Ма	trix Spike (ma/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Sample</u> 1.00U	<u>Spike</u> 4.00	<u>Result</u> 3.34	<u>Rec (%)</u> 84	<u>Spike</u> 4.00	<u>Result</u> 3.68	<u>Rec (%)</u> 92	<u>CL</u> 75-125	<u>RPD (%)</u> 9.80	<u>RPD CL</u> (< 25)
Batch Information										
Analytical Batch: WDA4738				Prep	Batch: \	NXX13202		honoto (M)	
Instrument: Discrete Analyz	zer 2			Prep	Date/Tin	ne: 2/14/2	020 8:03:0	0AM)	
Analyst: DMM				Prep Initial Wt./Vol.: 25.00mL						
Analytical Date/Time: 2/18/	2020 12:27:57	7PM		Prep	Extract \	/ol: 25.00	mL			

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Method Blank					
Blank ID: MB for HBN 1 Blank Lab ID: 1551532	1804486 [WXX/13203]	Matrix	: Water (Surfac	ce, Eff., Ground)	
QC for Samples: 1200481002					
Results by SM21 4500F	P-B,E				
<u>Parameter</u> Total Phosphorus	<u>Results</u> 0.0200U	<u>LOQ/CL</u> 0.0400	<u>DL</u> 0.0120	<u>Units</u> mg/L	
Batch Information					
Analytical Batch: WDA Analytical Method: SM Instrument: Discrete A Analyst: EWW Analytical Date/Time:	A4739 //21 4500P-B,E Analyzer 2 2/18/2020 5:44:39PM	Prep Bat Prep Me Prep Dat Prep Initi Prep Ext	ch: WXX13203 thod: SM21 450 e/Time: 2/18/20 al Wt./Vol.: 25 r ract Vol: 25 mL	10P-B,E 120 4:12:00PM mL	



Blank Spike ID: LCS for H Blank Spike Lab ID: 1551 Date Analyzed: 02/18/20	03]	Spike Duplicate ID: LCSD for HBN 1200481 [WXX13203] Spike Duplicate Lab ID: 1551534 Matrix: Water (Surface, Eff., Ground)										
C for Samples: 1200	481002											
Results by SM21 4500P-I	B,E											
	Blank Spike (mg/L)				Spike Duplicate (mg/L)							
Parameter	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL			
otal Phosphorus	0.2	0.193	96	0.2	0.221	110	(75-125)	13.60	(< 25)			
Analytical Batch: WDA47: Analytical Method: SM21 Instrument: Discrete Ana Analyst: EWW		Pre Pre Pre Spil Dup	o Batch: M o Method: o Date/Tim ke Init Wt./\ ve Init Wt./\	IXX13203 SM21 4500F e: 02/18/202 /ol.: 0.2 mg /ol.: 0.2 mg	2 -B,E 10 16:12 /L Extract V /L Extract V	/ol: 25 mL ol: 25 mL						



Matrix Spike Summary			<u> </u>									
Original Sample ID: 120 MS Sample ID: 155153 MSD Sample ID: 15515		Analysis Date: 02/18/2020 17:49 Analysis Date: 02/18/2020 17:50 Analysis Date: 02/18/2020 17:50 Matrix: Water (Surface, Eff., Ground)										
QC for Samples: 12004	81002											
Results by SM21 4500P	-B,E											
<u>Parameter</u> Total Phosphorus	<u>Sample</u> 0.0400U	Ma <u>Spike</u> 0.200	trix Spike (<u>Result</u> .237	mg/L) <u>Rec (%)</u> 118	Spike <u>Spike</u> 0.200	e Duplicate <u>Result</u> 0.238	e (mg/L) <u>Rec (%)</u> 119	<u>CL</u> 75-125	<u>RPD (%)</u> 0.76	<u>RPD CL</u> (< 25)		
Batch Information												
Analytical Batch: WDA4 Analytical Method: SM2 Instrument: Discrete An Analyst: EWW Analytical Date/Time: 2/	1739 21 4500P-B,E alyzer 2 /18/2020 5:50:03		Prep Batch: WXX13203 Prep Method: Total Phosphorus (W) Ext. Prep Date/Time: 2/18/2020 4:12:00PM Prep Initial Wt./Vol.: 25.00mL Prep Extract Vol: 25.00mL									





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ŀ	NUTRIT STRATOG				Instructions: Sections 1 - 5 must be filled out.													
	CLIENT: STAVILES					On	nissio	ons n	nay de	elay t	<u>he or</u>	nset d	of and	alysis	3.	ter en en	Page of	
-	CONTACT: JULE ATWORN PHONE NO: 343-5202				Section 3				Preservative									
ction	PROJECT PWSID/ NAME: \ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\							الكريك	420		az SOy	-SO4			•			
Š	REPORTS TO: E-MAIL:					Туре	,	2			Ž	0 H						
	jake-oilward@stantec.com					C = COMP G = GRAB MI = Multi	ま		Ammonie		1.4.10X	The A						
	P.O. #: 204700415						<u>/N</u> ř					Mowill						
	RESERVED for lab use SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	E R S	Incre- mental Soils	Niton	5	TKN	B	tc(a	THUP					REMARKS/ LOC ID	
	DAC MW20	2/5/20	10:37	Water	3	6	/	\mathbf{i}	١									
	(2) AE Shaw		11:18		9				4	1		<u> </u>						
on 2	AA MANIUB		12:25													· · · · ·		
Sectio																		
0		1.11.		1/0			11											
	Note Please exper	the sp	aw tri	V r y mna	nia –	RESH	175"											
	Relinduished By: (1)	Date ゴムカ	:	Cooler ID:						Data	Delive	rable Requirements:						
	Relinquished By: 2	Date	Time	:		Requested Turnaround Time and/or Special Instru					ructions	s:						
tion								Kofile #348183 M										
Sec	Relinquished By: (3) Date Tim			Received By	:						<u>.</u> .			/	0.6-			
ľ	Relinguished Ptr (4)				r Labora	Temp Blank °C: <u>55559</u> Chaine												
Received For 245/20 1(21(//// (7))					m / i	Mu.	July or Ambient [] INTACT II July July (See attached Sample Receipt Form) (See attached					BROKEN (ABSENT)						

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

http://www.sgs.com/terms-and-conditions
e-Sam <u>ple R</u>			ot Form			
SGS	SGS Workorder #:		120048	81	1 2	0 0 4 8 1
R	eview Criteria	Condition (Ye	s, No, N/A	Exc	eptions Note	ed below
<u>Chain</u>	of Custody / Temperature Requir	rements	Yes	Exemption pe	rmitted if sampl	er hand carries/delivers.
	Were Custody Seals intact? Note # & I	ocation N/	Absent			
	COC accompanied sa	mples? Ye	6			
DOD: Were	samples received in COC corresponding co	oolers? N/	4			
	Yes **Exemption permitted if o	chilled & col	lected <8 hours	ago, or for sam	nples where chil	ling is not required
Tempera	ature blank compliant* (i.e., 0-6 °C afte	r CF)? Ye	s Cooler ID:	1	@	5.5 °C Therm. ID: D59
			Cooler ID:		@	°C Therm. ID:
If samples received without	a temperature blank, the "cooler temperature" will	be illed" will	Cooler ID:		@	°C Therm. ID:
be	noted if neither is available.		Cooler ID:		@	°C Therm. ID:
			Cooler ID:		@	°C Therm. ID:
*lf >	6°C, were samples collected <8 hours	ago? N/	A			
		E				
	If <0°C, were sample containers ice	free? N/	A			
Note: Identity contai	ners received at non-compliant temper Use form FS-0029 if more space is ne	ature . eeded.				
Holding Time /	Documentation / Sample Condition Re	quirement	S Note: Refer to f	orm F-083 "Samp	le Guide" for spec	ific holding times.
	Were samples received within holding	time?	5			
Do samples match Co	DC ** (i.e.,sample IDs,dates/times colle	cted)? Ye	S			
**Note: If times d	liffer <1hr, record details & login per CO	C.				
***Note: If sample information on	containers differs from COC, SGS will default to C	OC information	<mark>on</mark>			
Were analytical requests with m	clear? (i.e., method is specified for an ultiple option for analysis (Ex: BTEX, N	alyses Ye ⁄letals)	5			
			N/A	***Exemption	permitted for m	etals (e.g,200.8/6020A).
Were proper containe	ers (type/mass/volume/preservative***)	used? Ye	5			
	Volatile / LL-Hg Requ	uirement	S			
Were Trip Blanks	s (i.e., VOAs, LL-Hg) in cooler with san	nples? N//	A			
Were all water VOA vi	als free of headspace (i.e., bubbles ≤ 6	6mm)? N/	4			
Were a	Il soil VOAs field extracted with MeOH-	+BFB? N//	4			
Note to Cl	ient: Any "No", answer above indicates nor	n-complianc	e with standard	procedures and	d may impact da	ita quality.

Additional notes (if applicable):



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> <u>Condition</u>
1200481001-A	No Preservative Required	ОК			
1200481001-B	Na2S2O3 for Chlorine Redu	ОК			
1200481001-C	H2SO4 to pH < 2	ОК			
1200481002-A	No Preservative Required	ОК			
1200481002-B	Na2S2O3 for Chlorine Redu	OK			
1200481002-C	No Preservative Required	ОК			
1200481002-D	No Preservative Required	ОК			
1200481002-E	H2SO4 to pH < 2	ОК			
1200481003-A	No Preservative Required	ОК			
1200481003-B	Na2S2O3 for Chlorine Redu	ОК			
1200481003-C	H2SO4 to pH < 2	ОК			
1200481004-A	H2SO4 to pH < 2	ОК			

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.

2/5/2020



Laboratory Report of Analysis

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

Report Number: **1200780**

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 Project Manager Justin.Nelson@sgs.com Date

Print Date: 03/16/2020 1:16:57PM

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Case Narrative

SGS Client: Stantec Consulting Services Inc. SGS Project: 1200780 Project Name/Site: Wasilla WWTP Project Contact: John Marshall

Refer to sample receipt form for information on sample condition.

1200755001MS (1552364) MS

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

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

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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 <<u>http://www.sgs.com/en/Terms-and-Conditions.aspx></u>. 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 (DW methods: 200.8, 2130B, 2320B, 2510B, 300.0, 4500-CN-C,E, 4500-H-B, 4500-NO3-F, 4500-P-E and 524.2) and only those analytes will be reported to the State of Alaska for compliance. Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth by the SGS QAP and, when applicable, other regulatory authorities.

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

*	The analyte has exceeded allowable regulatory or control limits.
!	Surrogate out of control limits.
В	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.
Sample summaries which i All DRO/RRO analyses are	nclude a result for "Total Solids" have already been adjusted for moisture content. integrated per SOP.

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Note:

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Sample Summary						
Client Sample ID	Lab Sample ID	Collected	Received	<u>Matrix</u>		
Eff	1200780001	02/27/2020	02/27/2020	Water (Surface, Eff., Ground)		
SW5	1200780002	02/27/2020	02/27/2020	Water (Surface, Eff., Ground)		
B2	1200780003	02/27/2020	02/27/2020	Water (Surface, Eff., Ground)		
Method	Method Desc	ription				
SM21 4500-NH3 G	Ammonia-N ((W) SM21 4500-N	IH3 G			
SM21 5210B	Biochemical	Oxygen Demand	SM21 5210B			
SM21 9222D	Fecal Colifor	m (MF)				
SM21 4500NO3-F	Flow Injection	n Analysis				
SM23 4500-N D	TKN by Pher	nate (W)				
SM21 9223B	Total Coliforn	n P/A Quant Tray				
SM21 4500P-B,E	Total Phosph	iorus (W)				
SM21 2540D	Total Suspen	ded Solids SM20	2540D			

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Detectable Results S	ummary
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Client Sample ID: Eff			
Lab Sample ID: 1200780001	<u>Parameter</u>	Result	<u>Units</u>
Microbiology Laboratory	Biochemical Oxygen Demand	32.9	mg/L
	E. Coli	620	MPN/100mL
	Fecal Coliform	740	col/100mL
	Total Coliform	24200	MPN/100mL
Waters Department	Ammonia-N	36.3	mg/L
	Nitrite-N	0.115J	mg/L
	Total Kjeldahl Nitrogen	44.9	mg/L
	Total Phosphorus	5.95	mg/L
	Total Suspended Solids	35.0	mg/L
Client Sample ID: SW5			
Lab Sample ID: 1200780002	Parameter	Result	Units
Microbiology Laboratory	Biochemical Oxygen Demand	6.84	mg/L
.,	Total Coliform	10	MPN/100mL
Waters Department	Ammonia-N	0.611	mg/L
	Nitrite-N	0.0620J	mg/L
	Total Kjeldahl Nitrogen	1.19	mg/L
	Total Phosphorus	0.0600	mg/L
	Total Suspended Solids	45.3	mg/L
Client Sample ID: B2			
Lab Sample ID: 1200780003	Parameter	Result	Units
Waters Department	Ammonia-N	35.6	mg/L
-	Total Kjeldahl Nitrogen	43.5	mg/L
	Total Phosphorus	6.19	mg/L

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Results of Eff						
Client Sample ID: Eff Client Project ID: Wasilla WWTP Lab Sample ID: 1200780001 Lab Project ID: 1200780		Ca Ri M Sa La	ollection D eceived Da atrix: Wate blids (%): ocation:	Date: 02/27/20 15: ate: 02/27/20 16:3 er (Surface, Eff., G	01 80 round)	
Results by Microbiology Laboratory						
Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 32.9	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> DF mg/L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/28/20 15:15
Batch Information Analytical Batch: BOD6542 Analytical Method: SM21 5210B Analyst: A.L						
Analytical Date/Time: 02/28/20 15:15 Container ID: 1200780001-A					Allowabla	
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 740	<u>LOQ/CL</u> 20.0	<u>DL</u> 20.0	<u>Units</u> DF col/100mL 1	<u>Allowable</u> Limits	<u>Date Analyzed</u> 02/27/20 18:33
Batch Information						
Analytical Batch: BTF17943 Analytical Method: SM21 9222D Analyst: M.A Analytical Date/Time: 02/27/20 18:33 Container ID: 1200780001-D						
Parameter	Regult Quel			Lipito DE	<u>Allowable</u>	Data Analyzad
E. Coli	620	<u>100/01</u>	<u>DL</u> 10	<u>MPN/100rr 10</u>	LIIIIIIS	02/28/20 13:09
Total Coliform	24200	10	10	MPN/100m 10		02/28/20 13:09
Datab Information						
Analytical Batch: BTF17944 Analytical Method: SM21 9223B Analyst: M.A Analytical Date/Time: 02/28/20 13:09 Container ID: 1200780001-E						
Print Date: 03/16/2020 1:17:05PM					Iflannin	n is activated
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Results of Eff							
Client Sample ID: Eff Client Project ID: Wasilla WWTP Lab Sample ID: 1200780001 Lab Project ID: 1200780		Collection Date: 02/27/20 15:01 Received Date: 02/27/20 16:30 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Waters Department			_				
Parameter Total Suspended Solids	<u>Result Qual</u> 35.0	<u>LOQ/CL</u> 5.00	<u>DL</u> 1.55	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/28/20 17:49
Batch Information							
Analytical Batch: STS6613 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 02/28/20 17:49 Container ID: 1200780001-B							
<u>Parameter</u> Ammonia-N	<u>Result Qual</u> 36.3	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 03/10/20 17:49
Batch Information							
Analytical Batch: WDA4747 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 03/10/20 17:49 Container ID: 1200780001-F		F F F F	Prep Batch: V Prep Method: Prep Date/Tir Prep Initial W Prep Extract V	WXX13216 : METHOD me: 03/10/2 /t./Vol.: 0.6 Vol: 6 mL	20 15:30 mL		
<u>Parameter</u> Nitrate-N Nitrite-N	<u>Result Qual</u> 0.100 U 0.115 J	LOQ/CL 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 2 2	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/28/20 10:45 02/28/20 10:45
Batch Information							
Analytical Batch: WFI2859 Analytical Method: SM21 4500NO3-F Analyst: EWW Analytical Date/Time: 02/28/20 10:45 Container ID: 1200780001-C							
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 5 95	<u>LOQ/CL</u> 0.800	<u>DL</u> 0.240	<u>Units</u> mg/l	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 03/04/20 16:43

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Results of Eff							
Client Sample ID: Eff Client Project ID: Wasilla WWTP Lab Sample ID: 1200780001 Lab Project ID: 1200780		Collection Date: 02/27/20 15:01 Received Date: 02/27/20 16:30 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:					
Results by Waters Department							
Batch Information Analytical Batch: WDA4746 Analytical Method: SM21 4500P-B,E Analyst: DMM Analytical Date/Time: 03/04/20 16:43 Container ID: 1200780001-F	Prep Batc Prep Meth Prep Date Prep Initia Prep Extra			rep Batch: WXX13213 rep Method: SM21 4500P-B,E rep Date/Time: 03/04/20 11:45 rep Initial Wt./Vol.: 1.25 mL rep Extract Vol: 25 mL			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 44.9	<u>LOQ/CL</u> 5.00	<u>DL</u> 1.55	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 03/12/20 11:59
Batch Information							
Analytical Batch: WDA4751 Analytical Method: SM23 4500-N D Analyst: DMM Analytical Date/Time: 03/12/20 11:59 Container ID: 1200780001-F			Prep Batch: Prep Methor Prep Date/T Prep Initial \ Prep Extrac	WXX13222 d: METHOD ïme: 03/11/: Nt./Vol.: 5 m t Vol: 25 mL	20 20 12:47 hL		
Print Date: 03/16/2020 1:17:05PM						flaggin	n is activated
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Results of SW5 Client Sample ID: SW5 Client Project ID: Wasilla WWTP Lab Sample ID: 1200780002 Lab Project ID: 1200780		C R M S Lo	ollection D eceived D latrix: Wate olids (%): ocation:	bate: 02/27/2 ate: 02/27/20 er (Surface, E	0 12:54 0 16:30 Eff., Gro	l bund)	
Results by Microbiology Laboratory Parameter Biochemical Oxygen Demand	<u>Result Qual</u> 6.84	<u>LOQ/CL</u> 2.00	<u>DL</u> 2.00	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/28/20 15:15
Batch Information Analytical Batch: BOD6542 Analytical Method: SM21 5210B Analyst: A.L Analytical Date/Time: 02/28/20 15:15 Container ID: 1200780002-A							
<u>Parameter</u> Fecal Coliform	<u>Result Qual</u> 6.25 U	<u>LOQ/CL</u> 6.25	<u>DL</u> 6.25	<u>Units</u> col/100m	<u>DF</u> L 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 02/27/20 18:33
Batch Information Analytical Batch: BTF17943 Analytical Method: SM21 9222D Analyst: M.A Analytical Date/Time: 02/27/20 18:33 Container ID: 1200780002-D							
<u>Parameter</u> E. Coli Total Coliform	<u>Result Qual</u> 1 U 10	<u>LOQ/CL</u> 1 1	<u>DL</u> 1 1	<u>Units</u> MPN/100 MPN/100	<u>DF</u> m 1 m 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 02/28/20 13:09 02/28/20 13:09
Batch Information Analytical Batch: BTF17944 Analytical Method: SM21 9223B Analyst: M.A Analytical Date/Time: 02/28/20 13:09 Container ID: 1200780002-E							

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Results of SW5							
Client Sample ID: SW5 Client Project ID: Wasilla WWTP Lab Sample ID: 1200780002 Lab Project ID: 1200780	Collection Date: 02/27/20 12:54 Received Date: 02/27/20 16:30 Matrix: Water (Surface, Eff., Ground) Solids (%): Location:						
Results by Waters Department							
<u>Parameter</u> Total Suspended Solids	<u>Result Qual</u> 45.3	<u>LOQ/CL</u> 2.22	<u>DL</u> 0.689	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 02/28/20 17:4
Batch Information Analytical Batch: STS6613 Analytical Method: SM21 2540D Analyst: EWW Analytical Date/Time: 02/28/20 17:49 Container ID: 1200780002-B							
Parameter Ammonia-N	<u>Result Qual</u> 0.611	<u>LOQ/CL</u> 0.100	<u>DL</u> 0.0310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 02/28/20 14:0
Batch Information Analytical Batch: WDA4744 Analytical Method: SM21 4500-NH3 G Analyst: DMM Analytical Date/Time: 02/28/20 14:08 Container ID: 1200780002-F		F F F F	Prep Batch: \ Prep Method: Prep Date/Tin Prep Initial W Prep Extract \	WXX13211 METHOD ne: 02/28/2 t./Vol.: 6 m /ol: 6 mL	20 11:10 L		
<u>Parameter</u> Nitrate-N Nitrite-N	<u>Result Qual</u> 0.100 U 0.0620 J	LOQ/CL 0.200 0.200	<u>DL</u> 0.0500 0.0500	<u>Units</u> mg/L mg/L	<u>DF</u> 2 2	<u>Allowable</u> <u>Limits</u>	Date Analyze 02/28/20 10: 02/28/20 10:
Batch Information Analytical Batch: WFI2859 Analytical Method: SM21 4500NO3-F Analyst: EWW Analytical Date/Time: 02/28/20 10:51 Container ID: 1200780002-C							
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 0.0600	<u>LOQ/CL</u> 0.0400	<u>DL</u> 0.0120	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyze</u> 03/04/20 15:

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SG Results of SW5 Client Sample ID: SW5 Collection Date: 02/27/20 12:54 Received Date: 02/27/20 16:30 Client Project ID: Wasilla WWTP Lab Sample ID: 1200780002 Matrix: Water (Surface, Eff., Ground) Lab Project ID: 1200780 Solids (%): Location: Results by Waters Department **Batch Information** Analytical Batch: WDA4746 Prep Batch: WXX13213 Analytical Method: SM21 4500P-B,E Prep Method: SM21 4500P-B,E Analyst: DMM Prep Date/Time: 03/04/20 11:45 Analytical Date/Time: 03/04/20 15:21 Prep Initial Wt./Vol.: 25 mL Container ID: 1200780002-F Prep Extract Vol: 25 mL Allowable Parameter Result Qual LOQ/CL Units DF Date Analyzed DL <u>Limits</u> Total Kjeldahl Nitrogen 1.19 1.00 0.310 mg/L 1 03/12/20 12:00 **Batch Information** Analytical Batch: WDA4751 Prep Batch: WXX13222 Analytical Method: SM23 4500-N D Prep Method: METHOD Analyst: DMM Prep Date/Time: 03/11/20 12:47 Analytical Date/Time: 03/12/20 12:00 Prep Initial Wt./Vol.: 25 mL Container ID: 1200780002-F Prep Extract Vol: 25 mL

Print Date: 03/16/2020 1:17:05PM

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Results of B2							
Client Sample ID: B2 Client Project ID: Wasilla WWTP Lab Sample ID: 1200780003 Lab Project ID: 1200780			Collection Da Received Da Matrix: Wate Solids (%): Location:	ate: 02/27/2 ate: 02/27/2 er (Surface,	20 10:25 20 16:30 Eff., Gro	und)	
Results by Waters Department							
Parameter Ammonia-N Batch Information	<u>Result Qual</u> 35.6	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 03/10/20 17:50
Analytical Batch: WDA4747 Analytical Method: SM21 4500-NH3 G Analyst: EWW Analytical Date/Time: 03/10/20 17:50 Container ID: 1200780003-A			Prep Batch: Prep Methoc Prep Date/Ti Prep Initial V Prep Extract	WXX13216 d: METHOD ime: 03/10/2 Vt./Vol.: 0.6 Vol: 6 mL	20 15:30 mL		
<u>Parameter</u> Total Phosphorus	<u>Result Qual</u> 6.19	<u>LOQ/CL</u> 2.00	<u>DL</u> 0.600	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	Date Analyzed 03/11/20 15:17
Batch Information Analytical Batch: WDA4748 Analytical Method: SM21 4500P-B,E Analyst: EWW Analytical Date/Time: 03/11/20 15:17 Container ID: 1200780003-A			Prep Batch: Prep Methoc Prep Date/Ti Prep Initial V Prep Extract	WXX13217 d: SM21 450 ime: 03/11/2 Vt./Vol.: 0.5 Vol: 25 mL	0P-B,E 20 14:01 mL		
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Result Qual</u> 43.5	<u>LOQ/CL</u> 5.00	<u>DL</u> 1.55	<u>Units</u> mg/L	<u>DF</u> 1	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u> 03/12/20 12:04
Batch Information Analytical Batch: WDA4751 Analytical Method: SM23 4500-N D Analyst: DMM Analytical Date/Time: 03/12/20 12:04 Container ID: 1200780003-A			Prep Batch: Prep Methoc Prep Date/Ti Prep Initial V Prep Extract	WXX13222 d: METHOD ime: 03/11/2 Vt./Vol.: 5 m Vol: 25 mL	20 12:47 L		
Print Date: 03/16/2020 1:17:05PM SGS North America Inc.	0 West Potter D	rive Anchorag	ge, AK 95518			J flaggin	g is activated
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Method Blank	
Blank ID: MB for HBN 1804766 [BOD/6542] Blank Lab ID: 1552402	Matrix: Water (Surface, Eff., Ground)
QC for Samples: 1200780001, 1200780002	
Results by SM21 5210B	
ParameterResultsBiochemical Oxygen Demand2.00U	<u>LOQ/CL</u> <u>DL</u> <u>Units</u> 2.00 2.00 mg/L
Batch Information Analytical Batch: BOD6542 Analytical Method: SM21 5210B Instrument: Analyst: A.L Analytical Date/Time: 2/28/2020 3:15:48PM	

Print Date: 03/16/2020 1:17:07PM

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I				
Blank Spike Summary				
Blank Spike ID: LCS for HBN Blank Spike Lab ID: 1552403 Date Analyzed: 02/28/2020	1200780 15:15	BOD6542]	Matrix: Water (Surface, Eff., Ground)
QC for Samples: 12007800	001, 120078	80002		
Results by SM21 5210B				
		Blank Spike	e (mg/L)	
Parameter	Spike	Result	Rec (%)	CL
Biochemical Oxygen Demand	198	189	96	(84.6-115.4
Batch Information				
Analytical Batch: BOD6542 Analytical Method: SM21 5210 Instrument: Analyst: A.L	В			
Print Date: 03/16/2020 1:17:09PM				

Method Blank								
Blank ID: MB for HBN 1804767 [BTF/17943] Blank Lab ID: 1552404		Matrix: Water (Surface, Eff., Ground)						
QC for Samples: 1200780001, 120078000	2							
Results by SM21 9222	D							
<u>Parameter</u> Fecal Coliform	<u>Results</u> 1.00U	<u>LOQ/CL</u> 1.00	<u>DL</u> 1.00	<u>Units</u> col/100mL				
Batch Information								
Analytical Batch: BTF Analytical Method: SM Instrument: Analyst: M.A Analytical Date/Time:	17943 M21 9222D 2/27/2020 6:33:00PM							

Print Date: 03/16/2020 1:17:12PM

Method Blank							
Blank ID: MB for HBN Blank Lab ID: 155240	1804768 [BTF/17944] 6	Matrix: Water (Surface, Eff., Ground)					
QC for Samples: 1200780001, 120078000	02						
Results by SM21 9223	B						
Parameter	Results	LOQ/CL	<u>DL</u>	Units			
Total Coliform	1U	1	1	MPN/100m			
E. Coli	1U	1	1	MPN/100m			
Batch Information							
Analytical Batch: BT Analytical Method: S Instrument: Analyst: M.A Analytical Date/Time:	- F17944 M21 9223B 2/28/2020 1:09:00PM						

Print Date: 03/16/2020 1:17:16PM

Method Blank						
Blank ID: MB for HBN 180 Blank Lab ID: 1552414	4772 [STS/6613]		Matrix	:: Water (Surfa	ace, Eff., Ground)	
QC for Samples: 1200780001, 1200780002						
Results by SM21 2540D						
Parameter Total Suspended Solids	<u>Results</u> 0.500U	 1.	<u>OQ/CL</u> .00	<u>DL</u> 0.310	<u>Units</u> mg/L	
Batch Information						
Analytical Batch: STS661 Analytical Method: SM21 Instrument: Analyst: EWW Analytical Date/Time: 2/2	3 2540D 8/2020 5:49:57PM					

Print Date: 03/16/2020 1:17:20PM

Duplicate Sample Summary							
Original Sample ID: 120078000 Duplicate Sample ID: 1552417 QC for Samples: 1200780001, 1200780002	2		Analysis Date: 02/28/2020 17:49 Matrix: Water (Surface, Eff., Ground)				
Results by SM21 2540D							
NAME	<u>Original</u>	Duplicate	<u>Units</u>	<u>RPD (%)</u>	RPD CL		
Total Suspended Solids	45.3	47.8	mg/L	5.30*	(< 5)		
Batch Information Analytical Batch: STS6613 Analytical Method: SM21 2540D Instrument: Analyst: EWW							

Print Date: 03/16/2020 1:17:21PM



-Blank Spike Summary Blank Spike ID: LCS for HB	N 1200780	[STS6613]		Spi	ke Duplica	ite ID: LCS	D for HBN 1	200780	
Blank Spike Lab ID: 15524 Date Analyzed: 02/28/202	15 0 17:49			[ST Spi Ma	S6613] ke Duplica trix: Wate	ite Lab ID: r (Surface,	1552416 Eff., Ground)	
QC for Samples: 120078	80001, 120078	80002				•			
Results by SM21 2540D									
		Blank Spike	e (mg/L)	5	Spike Duplic	cate (mg/L)			
<u>Parameter</u> Total Suspended Solids	<u>Spike</u> 25	<u>Result</u> 25.4	<u>Rec (%)</u> 102	<u>Spike</u> 25	<u>Result</u> 25.1	<u>Rec (%)</u> 100	<u>CL</u> (75-125)	<u>RPD (%)</u> 1.20	<u>RPD CL</u> (< 5)
Batch Information									
Analytical Batch: STS6613 Analytical Method: SM21 25 Instrument: Analyst: EWW	40D								

Print Date: 03/16/2020 1:17:22PM

]			
Blank ID: MB for HBN 1804755 (WFI/2859) Blank Lab ID: 1552380		k: Water (Surfa	ce, Eff., Ground)	
03-F]			
<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	
0.100U	0.200	0.0500	mg/L	
0.100U	0.200	0.0500	mg/L	
0.100U	0.200	0.0500	mg/L	
359 21 4500NO3-F mented flow				
	304755 (WFI/2859) 03-F <u>Results</u> 0.100U 0.100U 0.100U 859 21 4500NO3-F Immented flow	304755 (WFI/2859) Matrix 03-F <u>Results</u> <u>LOQ/CL</u> 0.100U 0.200 0.100U 0.200 0.100U 0.200 0.100U 0.200 859 21 4500NO3-F impented flow	304755 (WFI/2859) Matrix: Water (Surfaction of the second sec	304755 (WFI/2859) Matrix: Water (Surface, Eff., Ground) 03-F 0.100U 0.200 0.0500 mg/L 1.100U 0.200 0.0500 mg/L 1.100U 0.200 0.0500 mg/L

Print Date: 03/16/2020 1:17:24PM

Blank ID: MB for HBN 1804755 (WFI/2859) Matrix: Water (Surf Blank Lab ID: 1552382 QC for Samples: 1200780001, 1200780002 Results by SM21 4500NO3-F Image: Complex in the second se	ace, Eff., Ground) <u>Units</u> ma/l
QC for Samples: 1200780001, 1200780002 Results by SM21 4500NO3-F Image: Constant of the second sec	<u>Units</u> ma/l
Parameter Results LOQ/CL DL Nitrate-N 0.100U 0.200 0.0500 Nitrite-N 0.100U 0.200 0.0500 Total Nitrate/Nitrite-N 0.100U 0.200 0.0500	<u>Units</u> ma/l
Parameter Results LOQ/CL DL Nitrate-N 0.100U 0.200 0.0500 Nitrite-N 0.100U 0.200 0.0500 Total Nitrate/Nitrite-N 0.100U 0.200 0.0500	<u>Units</u> ma/l
Nitrate-N 0.100U 0.200 0.0500 Nitrite-N 0.100U 0.200 0.0500 Total Nitrate/Nitrite-N 0.100U 0.200 0.0500	ma/l
Nitrite-N 0.100U 0.200 0.0500 Total Nitrate/Nitrite-N 0.100U 0.200 0.0500	····9/
Total Nitrate/Nitrite-N 0.100U 0.200 0.0500	mg/L
	mg/L
Batch Information	
Analytical Batch: WFI2859 Analytical Method: SM21 4500NO3-F Instrument: Astoria segmented flow	
Analytical Date/Time: 2/28/2020 11:27:53AM	

Print Date: 03/16/2020 1:17:24PM



Blank Spike Summary				
Blank Spike ID: LCS for H Blank Spike Lab ID: 1552 Date Analyzed: 02/28/20	IBN 1200780 379 020 10:38	[WFI2859]	_	Matrix: Water (Surface, Eff., Ground)
QC for Samples: 12007	780001, 120078	30002		
Results by SM21 4500NO	3-F			
		Blank Spike	e (mg/L)	
Parameter	Spike	Result	<u>Rec (%)</u>	<u>CL</u>
Nitrate-N	2.5	2.68	107	(70-130)
Nitrite-N	2.5	2.52	101	(90-110)
Total Nitrate/Nitrite-N	5	5.20	104	(90-110)
Batch Information				
Analytical Batch: WFI2859 Analytical Method: SM214 Instrument: Astoria segme Analyst: EWW	4500NO3-F ented flow			

Print Date: 03/16/2020 1:17:26PM



Blank Spike Summary				
Blank Spike ID: LCS for H Blank Spike Lab ID: 1552 Date Analyzed: 02/28/20	IBN 1200780 381 920 11:26	[WFI2859]		Matrix: Water (Surface, Eff., Ground)
QC for Samples: 12007	780001, 120078	80002		
Results by SM21 4500NO	3-F		_	
		Blank Spike	(mg/L)	
Parameter	Spike	Result	<u>Rec (%)</u>	<u>CL</u>
Nitrate-N	2.5	2.26	90	(70-130)
Nitrite-N	2.5	2.54	102	(90-110)
Total Nitrate/Nitrite-N	5	4.80	96	(90-110)
Batch Information				
Analytical Batch: WFI2859 Analytical Method: SM21 4 Instrument: Astoria segm Analyst: EWW	4500NO3-F ented flow			

Print Date: 03/16/2020 1:17:26PM



Matrix Spike Summary		
Original Sample ID: 1200755001 Analysis Date: 02/28/2020 11:57		
MS Sample ID: 1552364 MS Analysis Date: 02/28/2020 11:59		
MSD Sample ID: 1552365 MSD Analysis Date: 02/28/2020 12:01		
OC for Samples: 1200780002		
Qu'ill Samples. 1200700002		
Results by SM21 4500NO3-F		$ \rightarrow$
Matrix Spike (mg/L) Spike Duplicate (mg/L)		
Parameter Sample Spike Result Rec (%) Spike Result Rec (%) CL F	<u>PD (%)</u>	RPD CL
Total Mitrate/Mitrate-M 5.95 10.0 17.0 110 10.0 10.9 110 90-110 0	.70	(< 25)
Batch Information		
Analytical Batch: WEI2859		
Analytical Method: SM21 4500NO3-F		
Instrument: Astoria segmented flow		
Analysi. Evvvv Analytical Date/Time: 2/28/2020 11:59:23AM		

Print Date: 03/16/2020 1:17:27PM



Matrix Spike Summary

Original Sample ID: 1200780001 MS Sample ID: 1552366 MS MSD Sample ID: 1552367 MSD

QC for Samples: 1200780001, 1200780002

Analysis Date: 02/28/2020 10:45 Analysis Date: 02/28/2020 10:47 Analysis Date: 02/28/2020 10:49 Matrix: Water (Surface, Eff., Ground)

Results by SM21 4500)NO3-F									
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Nitrate-N	<u>Sample</u> 0.100U	<u>Spike</u> 2.50	<u>Result</u> 2.66	<u>Rec (%)</u> 106	<u>Spike</u> 2.50	<u>Result</u> 2.70	<u>Rec (%)</u> 108	<u>CL</u> 70-130	<u>RPD (%)</u> 1.50	<u>RPD CL</u> (< 25)
Nitrite-N	0.115J	2.50	2.8	107	2.50	2.81	108	90-110	0.59	(< 25)
Batch Information Analytical Batch: WF Analytical Method: SI Instrument: Astoria so Analyst: EWW Analytical Date/Time:	12859 M21 4500NO3-F egmented flow 2/28/2020 10:47:38	8AM								

Print Date: 03/16/2020 1:17:27PM

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		1			
Method Blank					
Blank ID: MB for HBN Blank Lab ID: 155242	I 1804775 [WXX/13211] 28	Matri	x: Water (Surfac	ce, Eff., Ground)	
QC for Samples:					
1200780002					
Results by SM21 450	0-NH3 G				
Parameter	<u>Results</u>	LOQ/CL	<u>DL</u>	<u>Units</u>	
Ammonia-N	0.05000	0.100	0.0310	mg/L	
atch Information					
Analytical Batch: W	 DA4744	Prep Ba	tch: WXX13211		
Analytical Method: S	SM21 4500-NH3 G Analyzer 2	Prep Me Prep Da	ethod: METHOD ate/Time: 2/28/20	020 11·10·00AM	
Analyst: DMM		Prep Ini	tial Wt./Vol.: 6 m	L	
Analytical Date/Time	e: 2/28/2020 12:32:14PM	Prep Ex	tract Vol: 6 mL		

Print Date: 03/16/2020 1:17:29PM



QC for Samples: 1200780002 Results by SM21 4500-NH3 G Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter Spike Result Rec (%) Spike Ammonia-N 1 1.11 11 1.22 122 (75-125) 8.90 (< 25) Batch Information Analytical Batch: WDA4744 Prep Batch: WXX13211 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Instrument: Discrete Analyzer 2 Prep Date/Time: 02/28/2020 11:10 Analyst: DMM Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL	Blank Spike ID: LCS for Blank Spike Lab ID: 155 Date Analyzed: 02/28/2	1]	Spike Duplicate ID: LCSD for HBN 1200780 [WXX13211] Spike Duplicate Lab ID: 1552430 Matrix: Water (Surface, Eff., Ground)							
Results by SM21 4500-NH3 G Blank Spike (mg/L) Parameter Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CI Ammonia-N 1 1.11 111 1 1.22 122 (75-125) 8.90 (< 25) Batch Information Prep Batch: WXX13211 Analytical Batch: WDA4744 Prep Method: METHOD Prep Date/Time: 02/28/2020 11:10 Prep Date/Time: 02/28/2020 11:10 Spike Init Wt./vol.: 1 mg/L Extract Vol: 6 mL Analyst: DMM Image: Discrete Analyzer 2 Image: Discrete Vol: 6 mL Dupe Init Wt./vol.: 1 mg/L Extract Vol: 6 mL	QC for Samples: 120	0780002								
Blank Spike (mg/L) Spike Duplicate (mg/L) Parameter Spike Result Rec (%) Spike Result Rec (%) CL RPD (%) RPD CI Ammonia-N 1 1.11 111 1 1.22 122 (75-125) 8.90 (< 25) Batch Information Analytical Batch: WDA4744 Prep Batch: WXX13211 Prep Batch: WXX13211 Prep Method: METHOD Prep Date/Time: 02/28/2020 11:10 Prep Date/Time: 02/28/2020 11:10 Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL Analyst: DMM DMM Extract Vol: 6 mL Dupe Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL	Results by SM21 4500-N	IH3 G	Diana la Oralita							
Ammonia-N11.1111111.22122(75-125)8.90(< 25)	Parameter	Spike	Blank Spike	e (mg/L) Rec (%)	Snike	Spike Duplic	Rec (%)	CI	RPD (%)	RPD CI
Batch Information Analytical Batch: WDA4744 Prep Batch: WXX13211 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Instrument: Discrete Analyzer 2 Prep Date/Time: 02/28/2020 11:10 Analyst: DMM Spike Init Wt./Vol.: 1 mg/L Extract Vol: 6 mL	Ammonia-N	1	1.11	111	1	1.22	122	(75-125)	8.90	(< 25)
	Analytical Batch: WDA47 Analytical Method: SM21 Instrument: Discrete Ana Analyst: DMM	744 I 4500-NH3 G alyzer 2			Pre Pre Pre Spi Dup	p Batch: W p Method: p Date/Timo ke Init Wt./\ pe Init Wt./\	XX13211 METHOD e: 02/28/202 /ol.: 1 mg/L /ol.: 1 mg/L	20 11:10 Extract Vol: Extract Vol:	6 mL 6 mL	

Print Date: 03/16/2020 1:17:31PM



- Matrix Spike Summar	у									
Original Sample ID: 12 MS Sample ID: 15524 MSD Sample ID: 1552	200669002 31 MS 2432 MSD				Analysis Analysis Analysis Matrix:	Date: 02 Date: 02 Date: 02 Water (Si	2/28/2020 2/28/2020 2/28/2020 urface. Eff.	12:40 12:42 12:43 . Ground)	
QC for Samples: 1200)780002					, ,	,	, - ,	,	
Results by SM21 4500	-NH3 G									
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Ammonia-N	<u>Sample</u> 0.195	<u>Spike</u> 1.00	<u>Result</u> 1.11	<u>Rec (%)</u> 92	<u>Spike</u> 1.00	<u>Result</u> 1.25	<u>Rec (%)</u> 106	<u>CL</u> 75-125	<u>RPD (%)</u> 12.10	<u>RPD CL</u> (< 25)
-Batch Information	<u> </u>									
Analytical Batch: WDA	4744			Prep	Batch: \	NXX13211				
Analytical Method: SN	121 4500-NH3 G			Prep	Method:	Ammonia	by SM21 4	500F prep	o (W)	
Analyst: DMM	analyzer z			Prep) Date/Tin Initial Wi	ne: 2/28/2 t/Vol · 6.0	020 11:10: 0ml	UUAIVI		
Analytical Date/Time:	2/28/2020 12:42:1	7PM		Prep	Extract \	/ol: 6.00m	L			

Print Date: 03/16/2020 1:17:32PM

lothod Blank	
Blank ID: MB for HBN 1804879 [WXX/13213] Blank Lab ID: 1552782 QC for Samples:	Matrix: Water (Surface, Eff., Ground)
200780001, 1200780002	
Parameter Results Total Phosphorus 0.0200U	<u>LOQ/CL</u> <u>DL</u> <u>Units</u> 0.0400 0.0120 mg/L
Analytical Batch: WDA4746 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2 Analyst: DMM Analytical Date/Time: 3/4/2020 2:52:39PM	Prep Batch: WXX13213 Prep Method: SM21 4500P-B,E Prep Date/Time: 3/4/2020 11:45:00AM Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 mL

Print Date: 03/16/2020 1:17:34PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1200780 [WXX13213] Blank Spike Lab ID: 1552783 Date Analyzed: 03/04/2020 14:53 Spike Duplicate ID: LCSD for HBN 1200780 [WXX13213] Spike Duplicate Lab ID: 1552784 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200780001, 1200780002

Results by SM21 4500P-B,E									
		Blank Spike	e (mg/L)	S	Spike Duplie	cate (mg/L)			
Parameter	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Phosphorus	0.2	0.191	96	0.2	0.192	96	(75-125)	0.16	(< 25)
Batch Information Analytical Batch: WDA4746 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2				Prep Batch: WXX13213 Prep Method: SM21 4500P-B,E Prep Date/Time: 03/04/2020 11:45					

Print Date: 03/16/2020 1:17:36PM



Matrix Spike Summary Original Sample ID: 1200857001 Analysis Date: 03/04/2020 15:18 MS Sample ID: 1552785 MS Analysis Date: 03/04/2020 15:19 MSD Sample ID: 1552786 MSD Analysis Date: 03/04/2020 15:20 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1200780001, 1200780002 Results by SM21 4500P-B,E Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) <u>Spike</u> Result <u>Rec (%)</u> <u>CL</u> <u>RPD (%)</u> RPD CL **Total Phosphorus** 0.199 0.200 .393 0.200 102 75-125 97 0.402 2.40 (< 25) **Batch Information** Analytical Batch: WDA4746 Prep Batch: WXX13213 Analytical Method: SM21 4500P-B,E Prep Method: Total Phosphorus (W) Ext. Instrument: Discrete Analyzer 2 Prep Date/Time: 3/4/2020 11:45:00AM Analyst: DMM Prep Initial Wt./Vol.: 25.00mL Analytical Date/Time: 3/4/2020 3:19:33PM Prep Extract Vol: 25.00mL

Print Date: 03/16/2020 1:17:37PM

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Slank Lib ID: 1553172 Slank Lab ID: 1553172 Z00780001, 1200780003 Results by SM21 4500-NH3 G Parameter Results <u>LOQ/CL</u> <u>L</u> <u>Units</u> Animonia-N 0.0500U 0.100 0.0310 mg/L Analytical Batch: WDA4747 Analytical Batch: WDA4747 Analytical Date/Time: 3/10/2020 5.44:02PM Prep Batch: WXX13216 Prep Date/Time: 3/10/2020 3.30:00PM Prep Date/Time: 3/10/2020 5.44:02PM								
Results by SM21 4500-NH3 G Parameter Results by SM21 4500-NH3 G Parameter Results by SM21 4500-NH3 G Results 0.0500U Results 0.100 Results WDA4747 Results WDA4747 Results WDA4747 Results Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Results WI Results 3/10/2020 5:44:02PM Prep Initial WL/Xol: 6 mL Prep Extract Vol: 6 mL	Blank ID: MB for HBN Blank Lab ID: 155317	1804979 [WXX/13216] 2	Matrix: Water (Surface, Eff., Ground)					
Accuration of the second secon	OC for Samples:	-						
Results by SM21 4500-NH3 G Ammonia-N 0.0500U 0.00 0.0310 mg/L Atch Information Maiytical Batch: WDA4747 Prep Batch: WXX13216 Analytical Method: SM24 500-NH3 G Prep Method: METHOD Analytical Date/Time: J10/2020 5:44:02PM Prep Method: METHOD Analytical Date/Time: 3/10/2020 5:44:02PM Prep Intial WLV/OL: 6 mL	1200780001, 12007800	03						
Parameter Results LOQ/CL DL Units Ammonia-N 0.0500U 0.0310 mg/L atch Information Prep Batch: WXX13216 Prep Method: WETHOD Analytical Batch:: Discrete Analyzer 2 Prep Date/Time: 3/10/2020 3:30:00PM Analytical Date/Time: 3/10/2020 5:44:02PM Prep Extract Vol: 6 mL								
Parameter Ammonia-N Results 0.0500U LOQ/CL 0.100 DL 0.0310 Units mg/L atch Information	Results by SM21 450	0-NH3 G						
Ammonia-N 0.0500U 0.100 0.0310 mg/L atch Information Analytical Batch: WDA4747 Analytical Date/Time: 3/10/2020 5.44:02PM Prep Date/Time: 3/10/2020 3.30:00PM Prep Date/Time: 3/10/2020 5.44:02PM Prep Later Voi: 6 mL	Parameter	Results	LOQ/CL	<u>DL</u>	<u>Units</u>			
atch Information Analytical Batch: WDA4747 Prep Batch: WXX13216 Analytical Method: SM21 4500-NH3 G Prep Method: METHOD Instrument: Discrete Analyzer 2 Prep Date/Time: 3/10/2020 3:30:00PM Analytical Date/Time: 3/10/2020 5:44:02PM Prep Extract Vol: 6 mL	Ammonia-N	0.0500U	0.100	0.0310	mg/L			
Analytical Batch: WDA4747 Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analytical Date/Time: 3/10/2020 5:44:02PM Analytical Date/Time: 3/10/2020 5:44:02PM Prep Extract Vol: 6 mL	atch Information							
Analytical Method: SM21 4500-NH3 G Instrument: Discrete Analyzer 2 Analyst: EWW Analytical Date/Time: 3/10/2020 5:44:02PM Prep Initial WL/Nol: 6 mL Prep Extract Vol: 6 mL	Analytical Batch: WI	DA4747	Prep Ba	tch: WXX13216				
Analyst: EWW Analystical Date/Time: 3/10/2020 5:44:02PM Prep Extract Vol: 6 mL	Analytical Method: S	SM21 4500-NH3 G	Prep Me Prep Da	ethod: METHOD	20 3·30·00PM			
Analytical Date/Time: 3/10/2020 5:44:02PM Prep Extract Vol: 6 mL	Analyst: EWW		Prep Ini	tial Wt./Vol.: 6 ml	L			
	Analytical Date/Time	: 3/10/2020 5:44:02PM	Prep Ex	tract Vol: 6 mL				

Print Date: 03/16/2020 1:17:39PM



Blank Spike Summary

Blank Spike ID: LCS for HBN 1200780 [WXX13216] Blank Spike Lab ID: 1553173 Date Analyzed: 03/10/2020 17:45 Spike Duplicate ID: LCSD for HBN 1200780 [WXX13216] Spike Duplicate Lab ID: 1553174 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200780001, 1200780003

Results by SM21 4500-N	IH3 G		_						
		Blank Spike	e (mg/L)	5	Spike Duplie	cate (mg/L)			
<u>Parameter</u>	Spike	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Ammonia-N	1	1.14	114	1	1.06	106	(75-125)	7.30	(< 25)
Analytical Batch: WDA4: Analytical Method: SM24 Instrument: Discrete An Analyst: EWW	747 I 4500-NH3 G alyzer 2			Pre Pre Pre Spil Dur	p Batch: W p Method: p Date/Tim ke Init Wt./N pe Init Wt /N	/XX13216 METHOD e: 03/10/202 /ol.: 1 mg/L /ol.: 1 mg/l	20 15:30 Extract Vol:	: 6 mL 6 ml	

Print Date: 03/16/2020 1:17:41PM



Instrument: Discrete Analyzer 2

Analytical Date/Time: 3/10/2020 5:54:04PM

Analyst: EWW

Matrix Spike Summary Original Sample ID: 1200857001 Analysis Date: 03/10/2020 17:52 MS Sample ID: 1553175 MS Analysis Date: 03/10/2020 17:54 MSD Sample ID: 1553176 MSD Analysis Date: 03/10/2020 17:55 Matrix: Water (Surface, Eff., Ground) QC for Samples: 1200780001, 1200780003 Results by SM21 4500-NH3 G Matrix Spike (mg/L) Spike Duplicate (mg/L) Parameter Sample Spike Result Rec (%) <u>Spike</u> Result <u>Rec (%)</u> <u>CL</u> <u>RPD (%)</u> Ammonia-N 0.446 1.36 101 75-125 1.00 92 1.00 1.46 6.80 **Batch Information** Analytical Batch: WDA4747 Prep Batch: WXX13216 Analytical Method: SM21 4500-NH3 G Prep Method: Ammonia by SM21 4500F prep (W)

Prep Date/Time: 3/10/2020 3:30:00PM

Prep Initial Wt./Vol.: 6.00mL

Prep Extract Vol: 6.00mL

Print Date: 03/16/2020 1:17:42PM

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(< 25)
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Blank ID: MB for HBN 1804996 [WXX/13217] Blank Lab ID: 1553223 QC for Samples: 200780003		Matrix: Water (Surface, Eff., Ground)							
Results by SM21 4500P-	-B,E								
<u>Parameter</u> Total Phosphorus	<u>Results</u> 0.0200U	<u>LOQ/CL</u> 0.0400	<u>DL</u> 0.0120	<u>Units</u> mg/L					
tch Information Analytical Batch: WDA4748 Analytical Method: SM21 4500P-B,E Instrument: Discrete Analyzer 2 Analyst: EWW Analytical Date/Time: 3/11/2020		Prep Ba Prep Me Prep Da Prep Init Prep Ex	tch: WXX13217 thod: SM21 450 te/Time: 3/11/20 ial Wt./Vol.: 25 n tract Vol: 25 mL	DP-B,E 20 11:19:00AM nL					

Print Date: 03/16/2020 1:17:43PM



Siank Spike Summary												
Blank Spike ID:LCS for HE Blank Spike Lab ID:15532 Date Analyzed: 03/11/202	3N 1200780 [24 20 13:01	WXX13217]	Spike Duplicate ID: LCSD for HBN 1200780 [WXX13217] Spike Duplicate Lab ID: 1553225 Matrix: Water (Surface, Eff., Ground)								
QC for Samples: 120078	30003											
Results by SM21 4500P-B,	E		_									
	E	Blank Spike	(mg/L)	J/L) Spike Duplicate (mg/L)								
<u>Parameter</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	CL	<u>RPD (%)</u>	RPD CL			
Fotal Phosphorus	0.2	0.201	100	0.2	0.198	99	(75-125)	1.30	(< 25)			
Batch Information Analytical Batch: WDA4748 Analytical Method: SM21 45 Instrument: Discrete Analys	500P-B,E zer 2			Pre Pre Pre Spił	o Batch: W o Method: o Date/Tim ce Init Wt./\	IXX13217 SM21 4500F e: 03/11/202 /ol.: 0.2 mg	P-B,E 20 11:19 J/L Extract \	(ol: 25 mL				

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Matrix Spike Summary	/										
Original Sample ID: 12 MS Sample ID: 15532 MSD Sample ID: 1553	00780003 26 MS 227 MSD		Analysis Date: 03/11/2020 15:17 Analysis Date: 03/11/2020 15:18 Analysis Date: 03/11/2020 15:19 Matrix: Water (Surface, Eff., Ground)								
QC for Samples: 1200	780003					,	,	· ,			
Results by SM21 4500	P-B,E										
		Ma	trix Spike (mg/L)	Spike	e Duplicate	e (mg/L)				
<u>Parameter</u> Total Phosphorus	<u>Sample</u> 6.19	<u>Spike</u> 10.0	<u>Result</u> 16.4	<u>Rec (%)</u> 102	<u>Spike</u> 10.0	<u>Result</u> 16.1	<u>Rec (%)</u> 99	<u>CL</u> 75-125	<u>RPD (%)</u> 2.30	<u>RPD CL</u> (< 25)	
Batch Information	1740				Databal	41////4004					
Analytical Batch: WDA Analytical Method: SM	4748 21 4500P-B.E			Prep Batch: WXX13217 Prep Method: Total Phosphorus (W) Ext							
Instrument: Discrete A	nalyzer 2			Prep Date/Time: 3/11/2020 2:01:00PM							
Analyst: EWW	3/11/2020 3.18.31	PM		Prep Initial Wt./Vol.: 0.50mL							
Analytical Date, Time.	0/11/2020 0.10.01	1 111		110		VOI. 20.00					

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SGS

Blank ID: MB for HBN 18050 Blank Lab ID: 1553518 OC for Samples:	72 [WXX/13222]	Matrix	x: Water (Surfa	ce, Eff., Ground)				
1200780001, 1200780002, 120	0780003							
Results by SM23 4500-N D								
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Results</u> 0.500U	<u>LOQ/CL</u> 1.00	<u>DL</u> 0.310	<u>Units</u> mg/L				
Batch Information								
Analytical Batch: WDA4751 Analytical Method: SM23 45 Instrument: Discrete Analyz Analyst: DMM Analytical Date/Time: 3/12/2	i00-N D er 2 2020 11:48:32AM	Prep Batch: WXX13222 Prep Method: METHOD Prep Date/Time: 3/11/2020 12:47:00PM Prep Initial Wt./Vol.: 25 mL Prep Extract Vol: 25 ml						

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Blank Spike Summary

Blank Spike ID: LCS for HBN 1200780 [WXX13222] Blank Spike Lab ID: 1553519 Date Analyzed: 03/12/2020 11:49 Spike Duplicate ID: LCSD for HBN 1200780 [WXX13222] Spike Duplicate Lab ID: 1553520 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200780001, 1200780002, 1200780003

Results by SM23 4500-N D									
		Blank Spike	e (mg/L)	5	Spike Dupli	cate (mg/L)			
<u>Parameter</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>Spike</u>	Result	<u>Rec (%)</u>	<u>CL</u>	<u>RPD (%)</u>	RPD CL
Total Kjeldahl Nitrogen	4	3.67	92	4	4.06	102	(75-125)	10.10	(< 25)
Batch Information Analytical Batch: WDA4751 Analytical Method: SM23 4500 Instrument: Discrete Analyzed Analyst: DMM	D-N D r 2			Pre Pre Pre Spil Dup	p Batch: M p Method: p Date/Tim ke Init Wt./\ be Init Wt./\	/XX13222 METHOD e: 03/11/202 /ol.: 4 mg/L /ol.: 4 mg/L	20 12:47 Extract Vol: Extract Vol:	: 25 mL 25 mL	

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Matrix Spike Summary

Original Sample ID: 1200005003 MS Sample ID: 1553521 MS MSD Sample ID: 1553522 MSD Analysis Date: 03/12/2020 11:52 Analysis Date: 03/12/2020 11:53 Analysis Date: 03/12/2020 11:55 Matrix: Water (Surface, Eff., Ground)

QC for Samples: 1200780001, 1200780002, 1200780003

Results by SM23 4500-N D										
		Matrix Spike (mg/L)		mg/L)	Spike	e Duplicate	e (mg/L)			
<u>Parameter</u> Total Kjeldahl Nitrogen	<u>Sample</u> 1.00U	<u>Spike</u> 4.00	<u>Result</u> 3.58	<u>Rec (%)</u> 90	<u>Spike</u> 4.00	<u>Result</u> 3.66	<u>Rec (%)</u> 92	<u>CL</u> 75-125	<u>RPD (%)</u> 2.20	<u>RPD CL</u> (< 25)
Batch Information Analytical Batch: WDA4751 Analytical Method: SM23 45 Instrument: Discrete Analyze Analyst: DMM Analytical Date/Time: 3/12/2	00-N D er 2 020 11:53:47	7AM		Prep Prep Prep Prep Prep) Batch: V) Method:) Date/Tin) Initial Wt) Extract V	WXX13222 Distillation ne: 3/11/2 t./Vol.: 25. /ol: 25.00	2 n TKN by P 020 12:47: 00mL mL	henate (W 00PM)	

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	RESERVED for lab use	SAMPLE IDENTIFICATION	DATE mm/dd/yy	TIME HH:MM	MATRIX/ MATRIX CODE	E R S	incre- mental Soils	Bol	TSS	Nitra	FC	10 0	TCN (190					REMARKS/ LOC ID
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1	Relinquished	1 By: (4)	Date	Time	Received Fo	or Labor	atory By:	: NK	-			or Am	bient []		INT	АСТ	BROKEN ABSENT
			apa 1100	טכשין	Mul	Ull [-	Üllei	المستقلم (See attached Sample Receipt Form) (See attached S					d Sample Receipt For					

[] 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

000	e-Sam <u>p</u>	le Rece	ipt For	m			
SGS	SGS Workorder #:		120	0780		1 2	0 0 7 8 0
	Review Criteria	Condition (Yes, No, N/A		Exce	eptions Note	ed below
<u>Chair</u>	n of Custody / Temperature Requir	ements		Yes E	xemption pe	rmitted if sampl	er hand carries/delivers.
	Were Custody Seals intact? Note # & lo	ocation N	I/A Abse	nt			
	COC accompanied sar	mples? Y	es				
DOD: We	re samples received in COC corresponding co	oolers?	I/A				
	N/A **Exemption permitted if o	chilled & c	ollected <	8 hours ag	o, or for sam	ples where chil	ling is not required
Tempe	erature blank compliant* (i.e., 0-6 °C after	r CF)? Y	Cool	er ID:	1	@	3.2 °C Therm. ID: D51
			Cool	<mark>er ID:</mark>		@	°C Therm. ID:
If samples received without documented instead & "COOLE	ut a temperature blank, the "cooler temperature" will I	be lled" will	Cool	<mark>er ID:</mark>		@	°C Therm. ID:
t	be noted if neither is available.	ilou mil	Cool	<mark>er ID:</mark>		@	°C Therm. ID:
			Cool	<mark>er ID:</mark>		@	°C Therm. ID:
*If	>6°C, were samples collected <8 hours	ago?	I/A				
	If <0°C, were sample containers ice	free?	I/A				
Note: Identify conta	ainers received at non-compliant tempera Use form FS-0029 if more space is ne	ature . eeded.					
Holding Time	/ Documentation / Sample Condition Re	quiremer	nts Note: I	Refer to form	F-083 "Samp	le Guide" for spec	ific holding times.
	Were samples received within holding	time?	^r es				
Do samples match (COC** (i.e.,sample IDs,dates/times colle	cted)?	es				
**Note: If times	differ <1hr, record details & login per CC	DC.					
***Note: If sample information of	on containers differs from COC, SGS will default to C	OC informa	tion				
Were analytical reques with	ts clear? (i.e., method is specified for and multiple option for analysis (Ex: BTEX, N	alyses Y letals)	es				
				N/A **	*Exemption	permitted for m	etals (e.g,200.8/6020A).
Were proper contai	ners (type/mass/volume/preservative***)	used?	es			·	
	Volatile / LL-Hg Requ	uiremen	its				
Were Trip Blan	nks (i.e., VOAs, LL-Hg) in cooler with sam	nples?	I/A				
Were all water VOA	vials free of headspace (i.e., bubbles ≤ 6	Smm)?	I/A				
Were	all soil VOAs field extracted with MeOH+	BFB?	I/A				
Note to	Client: Any "No", answer above indicates non	-complian	ice with st	andard pro	cedures and	l may impact da	ata quality.
	Additional	notes (i	if applic	able):			



Sample Containers and Preservatives

<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition	<u>Container Id</u>	<u>Preservative</u>	<u>Container</u> Condition
1200780001-A 1200780001-B 1200780001-C 1200780001-D 1200780001-E 1200780002-A 1200780002-A 1200780002-C 1200780002-D 1200780002-E 1200780002-F	No Preservative Required No Preservative Required No Preservative Required Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu H2SO4 to pH < 2 No Preservative Required No Preservative Required No Preservative Required Na2S2O3 for Chlorine Redu Na2S2O3 for Chlorine Redu H2SO4 to pH < 2 H2SO4 to pH < 2	ОК ОК ОК ОК ОК ОК ОК ОК ОК			
	·	.			

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.