



JB

Results of WQSWB174RT

Client Sample ID: WQSWB174RT
Client Project ID: AEA Susitna Monthly WQ+OTE
Lab Sample ID: 1134637001
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals by ICP/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Aluminum	976 JT	20.0	6.20	ug/L	25		10/03/13 03:42
Arsenic	1.50	0.500	0.150	ug/L	2.5		10/03/13 02:57
Barium	55.7 JT	0.250	0.0250	ug/L	2.5		10/03/13 02:57
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 02:57
Cadmium	0.0342 J	0.0500	0.0150	ug/L	2.5		10/03/13 02:57
Calcium	19800 JT	50.0	15.0	ug/L	2.5		10/03/13 02:57
Chromium	2.53 JT	0.200	0.0620	ug/L	2.5		10/03/13 02:57
Cobalt	0.741	0.0200	0.0100	ug/L	2.5		10/03/13 02:57
Copper	2.60	0.500	0.0500	ug/L	2.5		10/03/13 02:57
Iron	1330 JT	20.0	6.20	ug/L	2.5		10/03/13 02:57
Lead	0.296	0.100	0.0310	ug/L	2.5		10/03/13 02:57
Magnesium	3470 JT	20.0	6.20	ug/L	2.5		10/03/13 02:57
Manganese	30.0 JT	0.0500	0.0150	ug/L	2.5		10/03/13 02:57
Molybdenum	1.13	0.0500	0.0150	ug/L	2.5		10/03/13 02:57
Nickel	3.23	0.620	0.0620	ug/L	2.5		10/03/13 02:57
Selenium	0.544 J	1.00	0.310	ug/L	2.5		10/03/13 02:57
Thallium	0.0223	0.0200	0.00620	ug/L	2.5		10/03/13 02:57
Vanadium	3.46 JT	1.00	0.310	ug/L	2.5		10/03/13 02:57
Zinc	6.05 JT	3.10	0.400	ug/L	2.5		10/03/13 02:57

Batch Information

Analytical Batch: MMS8277
Analytical Method: 200.8 Low Level
Analyst: NRB
Analytical Date/Time: 10/03/13 03:42
Container ID: 1134637001-B

Prep Batch: MXX27104
Prep Method: E200.2
Prep Date/Time: 09/24/13 07:30
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL



Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637001
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	2.99	1.00	0.500	ng/L	1		09/27/13 11:24

Batch Information

Analytical Batch: MCV5422
Analytical Method: EPA 1631 E
Analyst: KAN
Analytical Date/Time: 09/27/13 11:24
Container ID: 1134637001-A

Prep Batch: MXX27118
Prep Method: METHOD
Prep Date/Time: 09/26/13 10:00
Prep Initial Wt /Vol: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/07/2013 10:43:33AM

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Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637001
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.0	1.00	1.00	col/100mL	1		09/21/13 12:30

Batch Information

Analytical Batch: BTF13097
Analytical Method: SM21 9222D
Analyst: SDP
Analytical Date/Time: 09/21/13 12:30
Container ID: 1134637001-G

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt /Vol.: 100 mL
Prep Extract Vol: 100 mL

Print Date: 10/07/2013 10:43:33AM



Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: **1134637001**
 Lab Project ID: **1134637**

Collection Date: **09/20/13 13:30**
 Received Date: **09/21/13 11:40**
 Matrix: **Water (Surface, Eff., Ground)**
 Solids (%):

Results by Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Acenaphthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Acenaphthylene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Benzo(a)Anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Benzo[a]pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Benzo[b]Fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Benzo[g,h,i]perylene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Benzo[k]fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Chrysene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Dibenzo[a,h]anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Fluorene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Indeno[1,2,3-c,d] pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Naphthalene	0.0652 U	0.105	0.0326	ug/L	1		09/25/13 15:08
Phenanthrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:08
Surrogates							
2-Fluorobiphenyl	69	50-110		%	1		09/25/13 15:08
Terphenyl-d14	93.1	50-135		%	1		09/25/13 15:08

Batch Information

Analytical Batch: **XMS7622**
 Analytical Method: **EPA 625M SIMS (PAH)**
 Analyst: **RTS**
 Analytical Date/Time: **09/25/13 15:08**
 Container ID: **1134637001-H**

Prep Batch: **XXX29980**
 Prep Method: **SW3520C**
 Prep Date/Time: **09/22/13 10:02**
 Prep Initial Wt./Vol.: **950 mL**
 Prep Extract Vol: **1 mL**

Print Date: 10/07/2013 10:43:33AM

**Results of WQSWB174RT**

Client Sample ID: WQSWB174RT
Client Project ID: AEA Susitna Monthly WQ+OTE
Lab Sample ID: 1134637001
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.240 U	0.400	0.120	ug/L	1		09/27/13 02:33
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:33
o-Xylene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:33
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1		09/27/13 02:33
Toluene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:33
Surrogates							
1,2-Dichloroethane-D4	100	70-120		%	1		09/27/13 02:33
4-Bromofluorobenzene	95.6	75-120		%	1		09/27/13 02:33
Toluene-d8	96.9	85-120		%	1		09/27/13 02:33

Batch Information

Analytical Batch: VMS13775
Analytical Method: EPA 624
Analyst: SCL
Analytical Date/Time: 09/27/13 02:33
Container ID: 1134637001-J

Prep Batch: VXX25247
Prep Method: SW5030B
Prep Date/Time: 09/25/13 07:50
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date 10/07/2013 10:43:33AM



Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637001
 Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon	2.25		0.500	0.150	mg/L	1		09/29/13 18:13

Batch Information

Analytical Batch: WTC2298	Prep Batch:
Analytical Method: SM 5310B	Prep Method:
Analyst: KJO	Prep Date/Time:
Analytical Date/Time: 09/29/13 18:13	Prep Initial Wt./Vol.: 30 mL
Container ID: 1134637001-F	Prep Extract Vol: 30 mL

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Turbidity	18.0		0.100	0.0500	NTU			09/21/13 16:35

Batch Information

Analytical Batch: WAT9906	Prep Batch:
Analytical Method: SM21 2130B	Prep Method:
Analyst: AYC	Prep Date/Time:
Analytical Date/Time: 09/21/13 16:35	Prep Initial Wt./Vol.: 1 mL
Container ID: 1134637001-C	Prep Extract Vol: 1 mL

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Alkalinity	48.0		10.0	3.10	mg/L	1		09/25/13 15:24

Batch Information

Analytical Batch: WT13886	Prep Batch:
Analytical Method: SM21 2320B	Prep Method:
Analyst: SDP	Prep Date/Time:
Analytical Date/Time: 09/25/13 15:24	Prep Initial Wt./Vol.: 50 mL
Container ID: 1134637001-C	Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	92.0		10.0	3.10	mg/L	1		09/25/13 12:15

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Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637001
 Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Waters Department

Batch Information

Analytical Batch: WAT9911
 Analytical Method: SM21 2540C
 Analyst: MEV
 Analytical Date/Time: 09/25/13 12:15
 Container ID: 1134637001-C

Prep Batch:
 Prep Method:
 Prep Date/Time:
 Prep Initial Wt./Vol.: 100 mL
 Prep Extract Vol: 100 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	25.7	0.510	0.153	mg/L	1		09/23/13 10:40

Batch Information

Analytical Batch: STS4229
 Analytical Method: SM21 2540D
 Analyst: MEV
 Analytical Date/Time: 09/23/13 10:40
 Container ID: 1134637001-D

Prep Batch:
 Prep Method:
 Prep Date/Time:
 Prep Initial Wt./Vol.: 980 mL
 Prep Extract Vol: 1000 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.620 U	1.00	0.310	mg/L	1		09/23/13 16:45

Batch Information

Analytical Batch: WDA3038
 Analytical Method: SM21 4500-N D
 Analyst: AYC
 Analytical Date/Time: 09/23/13 16:45
 Container ID: 1134637001-E

Prep Batch: WXX10181
 Prep Method: METHOD
 Prep Date/Time: 09/23/13 08:00
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Ammonia-N	0.0620 U	0.100	0.0310	mg/L	1		09/23/13 13:13

Batch Information

Analytical Batch: WDA3037
 Analytical Method: SM21 4500-NH3 G
 Analyst: AYC
 Analytical Date/Time: 09/23/13 13:13
 Container ID: 1134637001-E

Prep Batch: WXX10180
 Prep Method: METHOD
 Prep Date/Time: 09/23/13 11:25
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
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Print Date 10/07/2013 10:43:33AM



Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637001
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result</u> <u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.176 J+	0.100	0.0310	mg/L	5	(<10)	09/22/13 09:01

Batch Information

Analytical Batch: WFI2247
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/22/13 09:01
Container ID: 1134637001-C

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result</u> <u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable</u> <u>Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.126 J+	0.0500	0.0155	mg/L	1		09/24/13 14:20

Batch Information

Analytical Batch: WDA3039
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/24/13 14:20
Container ID: 1134637001-E

Prep Batch: WXX10184
Prep Method: SM21 4500P-B,E
Prep Date/Time: 09/23/13 11:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637002
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	1320 J+	20.0	6.20	ug/L	25		10/03/13 03:11
Arsenic	2.15	0.500	0.150	ug/L	2.5		10/03/13 02:59
Barium	67.4 J+	0.250	0.0250	ug/L	2.5		10/03/13 02:59
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 02:59
Cadmium	0.0456 J	0.0500	0.0150	ug/L	2.5		10/03/13 02:59
Calcium	25600 J+	50.0	15.0	ug/L	2.5		10/03/13 02:59
Chromium	3.52 J+	0.200	0.0620	ug/L	2.5		10/03/13 02:59
Cobalt	1.07	0.0200	0.0100	ug/L	2.5		10/03/13 02:59
Copper	3.57	0.500	0.0500	ug/L	2.5		10/03/13 02:59
Iron	1890 J+	20.0	6.20	ug/L	2.5		10/03/13 02:59
Lead	0.394	0.100	0.0310	ug/L	2.5		10/03/13 02:59
Magnesium	4700 J+	20.0	6.20	ug/L	2.5		10/03/13 02:59
Manganese	44.9 J+	0.0500	0.0150	ug/L	2.5		10/03/13 02:59
Molybdenum	1.31	0.0500	0.0150	ug/L	2.5		10/03/13 02:59
Nickel	4.79	0.620	0.0620	ug/L	2.5		10/03/13 02:59
Selenium	0.841 J	1.00	0.310	ug/L	2.5		10/03/13 02:59
Thallium	0.0251	0.0200	0.00620	ug/L	2.5		10/03/13 02:59
Vanadium	4.92 J+	1.00	0.310	ug/L	2.5		10/03/13 02:59
Zinc	9.12 J+	3.10	0.400	ug/L	2.5		10/03/13 02:59

Batch Information

Analytical Batch: MMS8277
Analytical Method: 200.8 Low Level
Analyst: NRB
Analytical Date/Time: 10/03/13 03:11
Container ID: 1134637002-B

Prep Batch: MXX27104
Prep Method: E200.2
Prep Date/Time: 09/24/13 07:30
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL

Print Date: 10/07/2013 10:43:33AM

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637002
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals Department

<u>Parameter</u>	<u>Result</u>	<u>Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	3.15		1.00	0.500	ng/L	1		09/27/13 11:28

Batch Information

Analytical Batch: MCV5422
Analytical Method: EPA 1631 E
Analyst: KAN
Analytical Date/Time: 09/27/13 11:28
Container ID: 1134637002-A

Prep Batch: MXX27118
Prep Method: METHOD
Prep Date/Time: 09/26/13 10:00
Prep Initial Wt /Vol: 50 mL
Prep Extract Vol: 50 mL

Print Date 10/07/2013 10:43:33AM

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637002**
Lab Project ID: **1134637**

Collection Date: **09/20/13 10:15**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.0	1.00	1.00	col/100mL	1		09/21/13 12:30

Batch Information

Analytical Batch: **BTF13097**
Analytical Method: **SM21 9222D**
Analyst: **SDP**
Analytical Date/Time: **09/21/13 12:30**
Container ID: **1134637002-G**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **100 mL**
Prep Extract Vol: **100 mL**

Print Date 10/07/2013 10:43 33AM



Results of WQSWB235.2LT

Client Sample ID: WQSWB235.2LT
 Client Project ID: AEA Susitna Monthly WQ+OTE
 Lab Sample ID: 1134637002
 Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Polynuclear Aromatics GC/MS

Parameter	Result Qual	LOQ/CL	DL	Units	DF	Allowable Limits	Date Analyzed
Acenaphthene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Acenaphthylene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Anthracene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Benzo(a)Anthracene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Benzo[a]pyrene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Benzo[b]Fluoranthene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Benzo[g,h,i]perylene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Benzo[k]fluoranthene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Chrysene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Dibenzo[a,h]anthracene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Fluoranthene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Fluorene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Indeno[1,2,3-c,d] pyrene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Naphthalene	0.0636 U	0.103	0.0318	ug/L	1		09/25/13 15:22
Phenanthrene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Pyrene	0.0308 U	0.0513	0.0154	ug/L	1		09/25/13 15:22
Surrogates							
2-Fluorobiphenyl	66.3	50-110		%	1		09/25/13 15:22
Terphenyl-d14	84.2	50-135		%	1		09/25/13 15:22

Batch Information

Analytical Batch: XMS7622
 Analytical Method: EPA 625M SIMS (PAH)
 Analyst: RTS
 Analytical Date/Time: 09/25/13 15:22
 Container ID: 1134637002-H

Prep Batch: XXX29980
 Prep Method: SW3520C
 Prep Date/Time: 09/22/13 10:02
 Prep Initial Wt./Vol.: 975 mL
 Prep Extract Vol: 1 mL

Print Date: 10/07/2013 10:43:33AM

**Results of WQSWB235.2LT**

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637002**
Lab Project ID: **1134637**

Collection Date: **09/20/13 10:15**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.240 U	0.400	0.120	ug/L	1		09/27/13 02:56
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:56
o-Xylene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:56
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1		09/27/13 02:56
Toluene	0.620 U	1.00	0.310	ug/L	1		09/27/13 02:56
Surrogates							
1,2-Dichloroethane-D4	99	70-120		%	1		09/27/13 02:56
4-Bromofluorobenzene	99.7	75-120		%	1		09/27/13 02:56
Toluene-d8	97.4	85-120		%	1		09/27/13 02:56

Batch Information

Analytical Batch: **VMS13775**
Analytical Method: **EPA 624**
Analyst: **SCL**
Analytical Date/Time: **09/27/13 02:56**
Container ID: **1134637002-J**

Prep Batch: **VXX25247**
Prep Method: **SW5030B**
Prep Date/Time: **09/25/13 07:50**
Prep Initial Wt./Vol.: **5 mL**
Prep Extract Vol: **5 mL**

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637002**
Lab Project ID: **1134637**

Collection Date: **09/20/13 10:15**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon	2.75	0.500	0.150	mg/L	1		09/29/13 18:27

Batch Information

Analytical Batch: **WTC2298**
Analytical Method: **SM 5310B**
Analyst: **KJO**
Analytical Date/Time: **09/29/13 18:27**
Container ID: **1134637002-F**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **30 mL**
Prep Extract Vol: **30 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Turbidity	23.0	0.100	0.0500	NTU			09/21/13 16:35

Batch Information

Analytical Batch: **WAT9906**
Analytical Method: **SM21 2130B**
Analyst: **AYC**
Analytical Date/Time: **09/21/13 16:35**
Container ID: **1134637002-C**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **1 mL**
Prep Extract Vol: **1 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Alkalinity	55.6	10.0	3.10	mg/L	1		09/25/13 15:30

Batch Information

Analytical Batch: **WT13886**
Analytical Method: **SM21 2320B**
Analyst: **SDP**
Analytical Date/Time: **09/25/13 15:30**
Container ID: **1134637002-C**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	107	10.0	3.10	mg/L	1		09/25/13 12:15

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637002
 Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Waters Department

Batch Information

Analytical Batch: WAT9911
 Analytical Method: SM21 2540C
 Analyst: MEV
 Analytical Date/Time: 09/25/13 12:15
 Container ID: 1134637002-C

Prep Batch:
 Prep Method:
 Prep Date/Time:
 Prep Initial Wt./Vol.: 100 mL
 Prep Extract Vol: 100 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	40.1	0.510	0.153	mg/L	1		09/23/13 10:40

Batch Information

Analytical Batch: STS4229
 Analytical Method: SM21 2540D
 Analyst: MEV
 Analytical Date/Time: 09/23/13 10:40
 Container ID: 1134637002-D

Prep Batch:
 Prep Method:
 Prep Date/Time:
 Prep Initial Wt./Vol.: 980 mL
 Prep Extract Vol: 1000 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.890 J	1.00	0.310	mg/L	1		09/23/13 16:46

Batch Information

Analytical Batch: WDA3038
 Analytical Method: SM21 4500-N D
 Analyst: AYC
 Analytical Date/Time: 09/23/13 16:46
 Container ID: 1134637002-E

Prep Batch: WXX10181
 Prep Method: METHOD
 Prep Date/Time: 09/23/13 08:00
 Prep Initial Wt./Vol.: 25 mL
 Prep Extract Vol: 25 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Ammonia-N	0.0620 U	0.100	0.0310	mg/L	1		09/23/13 13:15

Batch Information

Analytical Batch: WDA3037
 Analytical Method: SM21 4500-NH3 G
 Analyst: AYC
 Analytical Date/Time: 09/23/13 13:15
 Container ID: 1134637002-E

Prep Batch: WXX10180
 Prep Method: METHOD
 Prep Date/Time: 09/23/13 11:25
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637002
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.160 J+	0.100	0.0310	mg/L	5	(<10)	09/22/13 09:02

Batch Information

Analytical Batch: WFI2247
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/22/13 09:02
Container ID: 1134637002-C

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt /Vol.: 5 mL
Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.132 JT	0.0500	0.0155	mg/L	1		09/24/13 14:24

Batch Information

Analytical Batch: WDA3039
Analytical Method: SM21 4500P-B E
Analyst: AYC
Analytical Date/Time: 09/24/13 14:24
Container ID: 1134637002-E

Prep Batch: WXX10184
Prep Method: SM21 4500P-B E
Prep Date/Time: 09/23/13 11:00
Prep Initial Wt /Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637003
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	1360 JT	20.0	6.20	ug/L	25		10/03/13 03:13
Arsenic	1.89	0.500	0.150	ug/L	2.5		10/03/13 03:01
Barium	61.8 JT	0.250	0.0250	ug/L	2.5		10/03/13 03:01
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 03:01
Cadmium	0.0486 J	0.0500	0.0150	ug/L	2.5		10/03/13 03:01
Calcium	23000 JT	50.0	15.0	ug/L	2.5		10/03/13 03:01
Chromium	3.37 JT	0.200	0.0620	ug/L	2.5		10/03/13 03:01
Cobalt	1.08	0.0200	0.0100	ug/L	2.5		10/03/13 03:01
Copper	3.93	0.500	0.0500	ug/L	2.5		10/03/13 03:01
Iron	1900	20.0	6.20	ug/L	2.5		10/03/13 03:01
Lead	0.381	0.100	0.0310	ug/L	2.5		10/03/13 03:01
Magnesium	4140 JT	20.0	6.20	ug/L	2.5		10/03/13 03:01
Manganese	45.5 JT	0.0500	0.0150	ug/L	2.5		10/03/13 03:01
Molybdenum	1.25	0.0500	0.0150	ug/L	2.5		10/03/13 03:01
Nickel	4.33	0.620	0.0620	ug/L	2.5		10/03/13 03:01
Selenium	0.547 J	1.00	0.310	ug/L	2.5		10/03/13 03:01
Thallium	0.0249	0.0200	0.00620	ug/L	2.5		10/03/13 03:01
Vanadium	4.79 JT	1.00	0.310	ug/L	2.5		10/03/13 03:01
Zinc	8.62	3.10	0.400	ug/L	2.5		10/03/13 03:01

Batch Information

Analytical Batch: MMS8277
Analytical Method: 200.8 Low Level
Analyst: NRB
Analytical Date/Time: 10/03/13 03:13
Container ID: 1134637003-B

Prep Batch: MXX27104
Prep Method: E200.2
Prep Date/Time: 09/24/13 07:30
Prep Initial Wt./Vol.: 50 mL
Prep Extract Vol: 10 mL



Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637003
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Metals Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	3.31	1.00	0.500	ng/L	1		09/27/13 11:32

Batch Information

Analytical Batch: MCV5422
Analytical Method: EPA 1631 E
Analyst: KAN
Analytical Date/Time: 09/27/13 11:32
Container ID: 1134637003-A

Prep Batch: MXX27118
Prep Method: METHOD
Prep Date/Time: 09/26/13 10:00
Prep Initial Wt /Vol.: 50 mL
Prep Extract Vol: 50 mL

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637003
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Microbiology Laboratory

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Fecal Coliform	1.00 U	1.00	1.00	col/100mL	1		09/21/13 12:30

Batch Information

Analytical Batch: BTF13097
Analytical Method: SM21 9222D
Analyst: SDP
Analytical Date/Time: 09/21/13 12:30
Container ID: 1134637003-G

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt /Vol.: 100 mL
Prep Extract Vol: 100 mL

Print Date 10/07/2013 10:43:33AM



Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637003
 Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Polynuclear Aromatics GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Acenaphthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Acenaphthylene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Benzo(a)Anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Benzo(a)pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Benzo(b)Fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Benzo(g,h,i)perylene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Benzo(k)fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Chrysene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Dibenzo(a,h)anthracene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Fluoranthene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Fluorene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Indeno[1,2,3-c,d] pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Naphthalene	0.0652 U	0.105	0.0326	ug/L	1		09/25/13 15:37
Phenanthrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Pyrene	0.0316 U	0.0526	0.0158	ug/L	1		09/25/13 15:37
Surrogates							
2-Fluorobiphenyl	69.8	50-110		%	1		09/25/13 15:37
Terphenyl-d14	84	50-135		%	1		09/25/13 15:37

Batch Information

Analytical Batch: XMS7622
 Analytical Method: EPA 625M SIMS (PAH)
 Analyst: RTS
 Analytical Date/Time: 09/25/13 15:37
 Container ID: 1134637003-H

Prep Batch: XXX29980
 Prep Method: SW3520C
 Prep Date/Time: 09/22/13 10:02
 Prep Initial Wt./Vol.: 950 mL
 Prep Extract Vol: 1 mL

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637003
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Volatile GC/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Benzene	0.240 U	0.400	0.120	ug/L	1		09/27/13 03:19
Ethylbenzene	0.620 U	1.00	0.310	ug/L	1		09/27/13 03:19
o-Xylene	0.620 U	1.00	0.310	ug/L	1		09/27/13 03:19
P & M -Xylene	1.24 U	2.00	0.620	ug/L	1		09/27/13 03:19
Toluene	0.620 U	1.00	0.310	ug/L	1		09/27/13 03:19
Surrogates							
1,2-Dichloroethane-D4	96.1	70-120		%	1		09/27/13 03:19
4-Bromofluorobenzene	103	75-120		%	1		09/27/13 03:19
Toluene-d8	100	85-120		%	1		09/27/13 03:19

Batch Information

Analytical Batch: VMS13775
Analytical Method: EPA 624
Analyst: SCL
Analytical Date/Time: 09/27/13 03:19
Container ID: 1134637003-J

Prep Batch: VXX25247
Prep Method: SW5030B
Prep Date/Time: 09/25/13 07:50
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

Print Date 10/07/2013 10:43:33AM



Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637003
 Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon	2.40	0.500	0.150	mg/L	1		09/29/13 19:20

Batch Information

Analytical Batch: WTC2298	Prep Batch:
Analytical Method: SM 5310B	Prep Method:
Analyst: KJO	Prep Date/Time:
Analytical Date/Time: 09/29/13 19:20	Prep Initial Wt./Vol.: 30 mL
Container ID: 1134637003-F	Prep Extract Vol: 30 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Turbidity	18.0	0.100	0.0500	NTU			09/21/13 16:35

Batch Information

Analytical Batch: WAT9906	Prep Batch:
Analytical Method: SM21 2130B	Prep Method:
Analyst: AYC	Prep Date/Time:
Analytical Date/Time: 09/21/13 16:35	Prep Initial Wt./Vol.: 1 mL
Container ID: 1134637003-C	Prep Extract Vol: 1 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Alkalinity	53.4	10.0	3.10	mg/L	1		09/25/13 15:37

Batch Information

Analytical Batch: WT13886	Prep Batch:
Analytical Method: SM21 2320B	Prep Method:
Analyst: SDP	Prep Date/Time:
Analytical Date/Time: 09/25/13 15:37	Prep Initial Wt./Vol.: 50 mL
Container ID: 1134637003-C	Prep Extract Vol: 50 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Dissolved Solids	105	10.0	3.10	mg/L	1		09/25/13 12:15

Print Date: 10/07/2013 10:43:33AM

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637003**
Lab Project ID: **1134637**

Collection Date: **09/20/13 12:45**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Waters Department

Batch Information

Analytical Batch: **WAT9911**
Analytical Method: **SM21 2540C**
Analyst: **MEV**
Analytical Date/Time: **09/25/13 12:15**
Container ID: **1134637003-C**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **100 mL**
Prep Extract Vol: **100 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Suspended Solids	41.9	0.500	0.150	mg/L	1		09/23/13 10:40

Batch Information

Analytical Batch: **STS4229**
Analytical Method: **SM21 2540D**
Analyst: **MEV**
Analytical Date/Time: **09/23/13 10:40**
Container ID: **1134637003-D**

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: **1000 mL**
Prep Extract Vol: **1000 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Kjeldahl Nitrogen	0.620 U	1.00	0.310	mg/L	1		09/23/13 16:48

Batch Information

Analytical Batch: **WDA3038**
Analytical Method: **SM21 4500-N D**
Analyst: **AYC**
Analytical Date/Time: **09/23/13 16:48**
Container ID: **1134637003-E**

Prep Batch: **WXX10181**
Prep Method: **METHOD**
Prep Date/Time: **09/23/13 08:00**
Prep Initial Wt./Vol.: **25 mL**
Prep Extract Vol: **25 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Ammonia-N	0.0620 U	0.100	0.0310	mg/L	1		09/23/13 13:16

Batch Information

Analytical Batch: **WDA3037**
Analytical Method: **SM21 4500-NH3 G**
Analyst: **AYC**
Analytical Date/Time: **09/23/13 13:16**
Container ID: **1134637003-E**

Prep Batch: **WXX10180**
Prep Method: **METHOD**
Prep Date/Time: **09/23/13 11:25**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
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Results of WQSWB187.8LT

Client Sample ID: WQSWB187.8LT
Client Project ID: AEA Susitna Monthly WQ+OTE
Lab Sample ID: 1134637003
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Nitrate/Nitrite-N	0.162 JT	0.100	0.0310	mg/L	5	(<10)	09/22/13 09:04

Batch Information

Analytical Batch: WFI2247
Analytical Method: SM21 4500NO3-F
Analyst: AYC
Analytical Date/Time: 09/22/13 09:04
Container ID: 1134637003-C

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 5 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Phosphorus	0.145 JT	0.0500	0.0155	mg/L	1		09/24/13 14:25

Batch Information

Analytical Batch: WDA3039
Analytical Method: SM21 4500P-B.E
Analyst: AYC
Analytical Date/Time: 09/24/13 14:25
Container ID: 1134637003-E

Prep Batch: WXX10184
Prep Method: SM21 4500P-B.E
Prep Date/Time: 09/23/13 11:00
Prep Initial Wt./Vol.: 5 mL
Prep Extract Vol: 25 mL

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Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637004**
Lab Project ID: **1134637**

Collection Date: **09/20/13 13:30**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Dissolved Metals

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	1.70	1.00	0.500	ng/L	1		09/27/13 11:37

Batch Information

Analytical Batch: **MCV5422**
Analytical Method: **EPA 1631 E**
Analyst: **KAN**
Analytical Date/Time: **09/27/13 11:37**
Container ID: **1134637004-A**

Prep Batch: **MXX27118**
Prep Method: **METHOD**
Prep Date/Time: **09/26/13 10:00**
Prep Initial Wt./Vol.: **50 mL**
Prep Extract Vol: **50 mL**

Print Date: 10/07/2013 10:43:33AM



Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637004
 Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	29.3	2.00	0.620	ug/L	2.5		10/03/13 03:03
Arsenic	0.747	0.500	0.150	ug/L	2.5		10/03/13 03:03
Barium	36.7	0.250	0.0250	ug/L	2.5		10/03/13 03:03
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 03:03
Cadmium	0.0300 U	0.0500	0.0150	ug/L	2.5		10/03/13 03:03
Calcium	20900	50.0	15.0	ug/L	2.5		10/03/13 03:03
Chromium	0.321	0.200	0.0620	ug/L	2.5		10/03/13 03:03
Cobalt	0.206	0.0200	0.0100	ug/L	2.5		10/03/13 03:03
Copper	0.996	0.500	0.0500	ug/L	2.5		10/03/13 03:03
Iron	55.9	20.0	6.20	ug/L	2.5		10/03/13 03:03
Lead	0.0620 U	0.100	0.0310	ug/L	2.5		10/03/13 03:03
Magnesium	3280	20.0	6.20	ug/L	2.5		10/03/13 03:03
Manganese	4.94	0.0500	0.0150	ug/L	2.5		10/03/13 03:03
Molybdenum	1.30	0.0500	0.0150	ug/L	2.5		10/03/13 03:03
Nickel	1.50	0.620	0.0620	ug/L	2.5		10/03/13 03:03
Selenium	0.394 J	1.00	0.310	ug/L	2.5		10/03/13 03:03
Thallium	0.0124 U	0.0200	0.00620	ug/L	2.5		10/03/13 03:03
Vanadium	0.620 U	1.00	0.310	ug/L	2.5		10/03/13 03:03
Zinc	2.10 J	3.10	0.400	ug/L	2.5		10/03/13 03:03

Batch Information

Analytical Batch: MMS8277
 Analytical Method: 200.8 Low Level
 Analyst: NRB
 Analytical Date/Time: 10/03/13 03:03
 Container ID: 1134637004-B

Prep Batch: MXX27104
 Prep Method: E200.2
 Prep Date/Time: 09/24/13 07:30
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	65.7	1.00	1.00	mg/L	2.5		10/03/13 03:03

Batch Information

Analytical Batch: MMS8277
 Analytical Method: SM21 2340B
 Analyst: NRB
 Analytical Date/Time: 10/03/13 03:03
 Container ID: 1134637004-B

Prep Batch: MXX27104
 Prep Method: E200.2
 Prep Date/Time: 09/24/13 07:30
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 10 mL

Print Date 10/07/2013 10:43:33AM

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Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637004
Lab Project ID: 1134637

Collection Date: 09/20/13 13:30
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon,Dissolved	2.31	0.500	0.150	mg/L	1		09/29/13 19:33

Batch Information

Analytical Batch: WTC2298
Analytical Method: SM 5310B
Analyst: KJO
Analytical Date/Time: 09/29/13 19:33
Container ID: 1134637004-D

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 30 mL
Prep Extract Vol: 30 mL

Print Date: 10/07/2013 10:43:33AM

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Results of WQSWB174RT

Client Sample ID: **WQSWB174RT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: **1134637004**
Lab Project ID: **1134637**

Collection Date: **09/20/13 13:30**
Received Date: **09/21/13 11:40**
Matrix: **Water (Surface, Eff., Ground)**
Solids (%):

Results by Waters Department Dissolved

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Soluble Reactive Phosphorus	0.00420 J	0.0100	0.00310	mg/L	1		09/21/13 17:28

Batch Information

Analytical Batch: **WDA3036**
Analytical Method: **SM21 4500P-B,E**
Analyst: **AYC**
Analytical Date/Time: **09/21/13 17:28**
Container ID: **1134637004-C**

Prep Batch: **WXX10176**
Prep Method: **SM21 4500P-B,E Diss**
Prep Date/Time: **09/21/13 16:12**
Prep Initial Wt /Vol: **25 mL**
Prep Extract Vol: **25 mL**

Print Date 10/07/2013 10:43:33AM

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637005
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Dissolved Metals

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	1.57	1.00	0.500	ng/L	1		09/27/13 11:41

Batch Information

Analytical Batch: MCV5422
Analytical Method: EPA 1631 E
Analyst: KAN
Analytical Date/Time: 09/27/13 11:41
Container ID: 1134637005-A

Prep Batch: MXX27118
Prep Method: METHOD
Prep Date/Time: 09/26/13 10:00
Prep Initial Wt /Vol: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/07/2013 10:43:33AM



Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637005
 Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	30.6	2.00	0.620	ug/L	2.5		10/03/13 03:05
Arsenic	1.13	0.500	0.150	ug/L	2.5		10/03/13 03:05
Barium	38.0	0.250	0.0250	ug/L	2.5		10/03/13 03:05
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 03:05
Cadmium	0.0168 J	0.0500	0.0150	ug/L	2.5		10/03/13 03:05
Calcium	24000	50.0	15.0	ug/L	2.5		10/03/13 03:05
Chromium	0.316	0.200	0.0620	ug/L	2.5		10/03/13 03:05
Cobalt	0.274	0.0200	0.0100	ug/L	2.5		10/03/13 03:05
Copper	0.952	0.500	0.0500	ug/L	2.5		10/03/13 03:05
Iron	66.2	20.0	6.20	ug/L	2.5		10/03/13 03:05
Lead	0.0620 U	0.100	0.0310	ug/L	2.5		10/03/13 03:05
Magnesium	3940	20.0	6.20	ug/L	2.5		10/03/13 03:05
Manganese	5.59	0.0500	0.0150	ug/L	2.5		10/03/13 03:05
Molybdenum	1.39	0.0500	0.0150	ug/L	2.5		10/03/13 03:05
Nickel	1.87	0.620	0.0620	ug/L	2.5		10/03/13 03:05
Selenium	0.629 J	1.00	0.310	ug/L	2.5		10/03/13 03:05
Thallium	0.0124 U	0.0200	0.00620	ug/L	2.5		10/03/13 03:05
Vanadium	0.620 U	1.00	0.310	ug/L	2.5		10/03/13 03:05
Zinc	1.44 J	3.10	0.400	ug/L	2.5		10/03/13 03:05

Batch Information

Analytical Batch: MMS8277	Prep Batch: MXX27104
Analytical Method: 200.8 Low Level	Prep Method: E200.2
Analyst: NRB	Prep Date/Time: 09/24/13 07:30
Analytical Date/Time: 10/03/13 03:05	Prep Initial Wt./Vol.: 50 mL
Container ID: 1134637005-B	Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	76.2	1.00	1.00	mg/L	2.5		10/03/13 03:05

Batch Information

Analytical Batch: MMS8277	Prep Batch: MXX27104
Analytical Method: SM21 2340B	Prep Method: E200.2
Analyst: NRB	Prep Date/Time: 09/24/13 07:30
Analytical Date/Time: 10/03/13 03:05	Prep Initial Wt./Vol.: 50 mL
Container ID: 1134637005-B	Prep Extract Vol: 10 mL

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637005
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon, Dissolved	2.80	0.500	0.150	mg/L	1		09/29/13 19:49

Batch Information

Analytical Batch: WTC2298
Analytical Method: SM 5310B
Analyst: KJO
Analytical Date/Time: 09/29/13 19:49
Container ID: 1134637005-D

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt /Vol: 30 mL
Prep Extract Vol: 30 mL

Print Date: 10/07/2013 10:43:33AM

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Results of WQSWB235.2LT

Client Sample ID: **WQSWB235.2LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637005
Lab Project ID: 1134637

Collection Date: 09/20/13 10:15
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department Dissolved

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Soluble Reactive Phosphorus	0.00360 J	0.0100	0.00310	mg/L	1		09/21/13 17:31

Batch Information

Analytical Batch: WDA3036
Analytical Method: SM21 4500P-B,E
Analyst: AYC
Analytical Date/Time: 09/21/13 17:31
Container ID: 1134637005-C

Prep Batch: WXX10176
Prep Method: SM21 4500P-B E Diss
Prep Date/Time: 09/21/13 16:12
Prep Initial Wt /Vol.: 25 mL
Prep Extract Vol: 25 mL

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637006
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Dissolved Metals

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Mercury	1.46	1.00	0.500	ng/L	1		09/27/13 11:46

Batch Information

Analytical Batch: MCV5422
Analytical Method: EPA 1631 E
Analyst: KAN
Analytical Date/Time: 09/27/13 11:46
Container ID: 1134637006-A

Prep Batch: MXX27118
Prep Method: METHOD
Prep Date/Time: 09/26/13 10:00
Prep Initial Wt./Vol: 50 mL
Prep Extract Vol: 50 mL

Print Date: 10/07/2013 10:43 33AM



Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
 Client Project ID: **AEA Susitna Monthly WQ+OTE**
 Lab Sample ID: 1134637006
 Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
 Received Date: 09/21/13 11:40
 Matrix: Water (Surface, Eff., Ground)
 Solids (%):

Results by Dissolved Metals by ICP/MS

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Aluminum	29.4	2.00	0.620	ug/L	2.5		10/03/13 03:07
Arsenic	1.01	0.500	0.150	ug/L	2.5		10/03/13 03:07
Barium	36.9	0.250	0.0250	ug/L	2.5		10/03/13 03:07
Beryllium	0.0500 U	0.0500	0.0250	ug/L	2.5		10/03/13 03:07
Cadmium	0.0300 U	0.0500	0.0150	ug/L	2.5		10/03/13 03:07
Calcium	22300	50.0	15.0	ug/L	2.5		10/03/13 03:07
Chromium	0.298	0.200	0.0620	ug/L	2.5		10/03/13 03:07
Cobalt	0.106	0.0200	0.0100	ug/L	2.5		10/03/13 03:07
Copper	0.953	0.500	0.0500	ug/L	2.5		10/03/13 03:07
Iron	57.4	20.0	6.20	ug/L	2.5		10/03/13 03:07
Lead	0.0346 J	0.100	0.0310	ug/L	2.5		10/03/13 03:07
Magnesium	3570	20.0	6.20	ug/L	2.5		10/03/13 03:07
Manganese	5.67	0.0500	0.0150	ug/L	2.5		10/03/13 03:07
Molybdenum	1.33	0.0500	0.0150	ug/L	2.5		10/03/13 03:07
Nickel	1.57	0.620	0.0620	ug/L	2.5		10/03/13 03:07
Selenium	0.523 J	1.00	0.310	ug/L	2.5		10/03/13 03:07
Thallium	0.0124 U	0.0200	0.00620	ug/L	2.5		10/03/13 03:07
Vanadium	0.620 U	1.00	0.310	ug/L	2.5		10/03/13 03:07
Zinc	7.59	3.10	0.400	ug/L	2.5		10/03/13 03:07

Batch Information

Analytical Batch: MMS8277
 Analytical Method: 200.8 Low Level
 Analyst: NRB
 Analytical Date/Time: 10/03/13 03:07
 Container ID: 1134637006-B

Prep Batch: MXX27104
 Prep Method: E200.2
 Prep Date/Time: 09/24/13 07:30
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 10 mL

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Hardness as CaCO3	70.5	1.00	1.00	mg/L	2.5		10/03/13 03:07

Batch Information

Analytical Batch: MMS8277
 Analytical Method: SM21 2340B
 Analyst: NRB
 Analytical Date/Time: 10/03/13 03:07
 Container ID: 1134637006-B

Prep Batch: MXX27104
 Prep Method: E200.2
 Prep Date/Time: 09/24/13 07:30
 Prep Initial Wt./Vol.: 50 mL
 Prep Extract Vol: 10 mL

Print Date: 10/07/2013 10:43 33AM



Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637006
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Total Organic Carbon,Dissolved	2.38	0.500	0.150	mg/L	1		09/29/13 20:03

Batch Information

Analytical Batch: WTC2298
Analytical Method: SM 5310B
Analyst: KJO
Analytical Date/Time: 09/29/13 20:03
Container ID: 1134637006-D

Prep Batch:
Prep Method:
Prep Date/Time:
Prep Initial Wt./Vol.: 30 mL
Prep Extract Vol: 30 mL

Print Date 10/07/2013 10:43:33AM

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Results of WQSWB187.8LT

Client Sample ID: **WQSWB187.8LT**
Client Project ID: **AEA Susitna Monthly WQ+OTE**
Lab Sample ID: 1134637006
Lab Project ID: 1134637

Collection Date: 09/20/13 12:45
Received Date: 09/21/13 11:40
Matrix: Water (Surface, Eff., Ground)
Solids (%):

Results by Waters Department Dissolved

<u>Parameter</u>	<u>Result Qual</u>	<u>LOQ/CL</u>	<u>DL</u>	<u>Units</u>	<u>DF</u>	<u>Allowable Limits</u>	<u>Date Analyzed</u>
Soluble Reactive Phosphorus	0.00450 J	0.0100	0.00310	mg/L	1		09/21/13 17:32

Batch Information

Analytical Batch: WDA3036
Analytical Method: SM21 4500P-B.E
Analyst: AYC
Analytical Date/Time: 09/21/13 17:32
Container ID: 1134637006-C

Prep Batch: WXX10176
Prep Method: SM21 4500P-B.E Diss
Prep Date/Time: 09/21/13 16:12
Prep Initial Wt /Vol: 25 mL
Prep Extract Vol: 25 mL

Print Date 10/07/2013 10:43 33AM

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