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ANALYTICA
Environmental Laboratories

8/6/2014

Kenai Watershed Forum
44129 Sterling Highway
Soldotna, AK 99669
Attn: Branden Bornemann

Work Order #: A1407461
Date: 8/6/2014
Work ID: KWF Baseline Monitoring 2014
Date Received: 7/22/2014
Proj #: None

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A1407461-01	RM 40 - Bing's Landing	A1407461-02	RM 43 - Upstream of Dow Isl
A1407461-03	RM 44 - Mouth of Kiley River	A1407461-04	RM 50 - Skilak Lake Outflow
A1407461-05	Trip Blank		

Enclosed are the analytical results for the submitted sample(s). Please review the CASE NARRATIVE for a discussion of any data and/or quality control issues. Listings of data qualifiers, analytical codes, key dates, and QC relationships are provided at the end of the report.

Sincerely,

Claire Toon
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Group, LLC - Anchorage

Work Order: A1407461

Samples were prepared and analyzed according to EPA or equivalent methods outlined in the following references:

Methods for the Determination of Metals in Environmental Samples, EPA/600/R-94/111, May 1994.

Methods for Organic Chemical Analysis of Municipal and Industrial Wastewater, EPA 600/4-82-057, July 1982.

Standard Methods for the Examination of Water and Wastewater, 21st Edition, 2005.

SAMPLE RECEIPT:
Five (5) samples were received on 7/22/2014 4:35:00 PM, at a temperature of 6.6°C, at Analytica-Anchorage. The samples were received in good condition and in order per chain of custody.

Comments: The samples were transported to the lab by Analytica staff. The samples were received on ice on the collection date.

The samples were transferred for various analyses to Analytica Environmental Laboratories (AEL), 12189 Pennsylvania St., Thornton, Colorado 80241, where they were received at a temperature of 2.2°C, in good condition and in order per chain of custody on 7/25/2014.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN
A summary of our review is shown below.

All analytical results contained in this report have been reviewed under Analytica's internal quality assurance and quality control program. Any deviations in quality control parameters for specific analyses are noted in the following text. A complete quality assurance report, including laboratory control, matrix spike, and sample duplicate recoveries is kept on file in our office and is available upon request.

All method specifications were met for the following tests, unless otherwise noted:

Test Method: 200.7 - Metals by ICP - Total/TR - Aqueous

Test Method: 624 - Purgeable Organics by GC/MS - VOC - Aqueous

Test Method: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - Nitrate+Nitrite pres - Aqueous

Test Method: SM4500-PE - Total Phos - Aqueous

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 40 - Bing's Landing**

Matrix: Aqueous Collection Date: 7/22/2014 11:11:00AM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A1407461-01A
Prep Date: 07-31-2014 12:07
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N
Prep Method ID:
Prep Batch Number: A140801001
Report Basis: As Received
Sample prep wt./vol: 25.00 ml

Analysis Date: 7/31/2014 12:25:00PM
Instrument: Thermospectr
File Name:
Dilution Factor: 1
Analyst Initials: MC
Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		**0.139**		mg/L	0.10	0.015	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-01B
Prep Date: 07-31-2014 11:07
Analytical Method ID: 200. 7 - Metals by ICP - Total/TR
Prep Method ID: 200.7
Prep Batch Number: T140731012
Report Basis: As Received
Sample prep wt./vol: 50.00 ml

Analysis Date: 7/31/2014 2:48:09PM
Instrument: Optima7300Icp
File Name: 073114.csv
Dilution Factor: 1
Analyst Initials: AC
Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Calcium	7440-70-2	**10.0**		mg/L	0.10	0.0020	1
Iron	7439-89-6	**0.249**		mg/L	0.050	0.0070	
Magnesium	7439-96-4	**0.896**		mg/L	0.10	0.010	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-01D
Prep Date: 07-28-2014 10:07
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC
Prep Method ID:
Prep Batch Number: T140729001
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 7/28/2014 4:23:00PM
Instrument: Nanook
File Name: 14072813.D
Dilution Factor: 1
Analyst Initials: CK
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/L	1.0	0.30	1
Ethylbenzene	100-41-4	**ND**		ug/L	1.0	0.30	
m&p Xylenes	108-38-3/106-	**ND**		ug/L	1.0	0.50	
O-Xylene	95-47-6	**ND**		ug/L	1.0	0.20	
Toluene	108-88-3	**ND**		ug/L	1.0	0.30	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
1,2-Dichloroethane-d4	17060-07-0	**51**		ug/L	2.0	0.50	50	**101**	76	133	1
Dibromofluoromethane	1868-53-7	**51**		ug/L	2.0	0.20	50	**102**	77	141	
p-Bromofluorobenzene	460-00-4	**49**		ug/L	2.0	0.50	50	**97.5**	80	120	

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 40 - Bing's Landing**

Matrix: Aqueous Collection Date: 7/22/2014 11:11:00AM

Lab Sample Number: A1407461-01D Analysis Date: 7/28/2014 4:23:00PM
Prep Date: 07-28-2014 10:07 Instrument: Nanook
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC File Name: 14072813.D
Prep Method ID: Dilution Factor: 1
Prep Batch Number: T140729001
Report Basis: As Received Analyst Initials: CK
Sample prep wt./vol: 5.00 ml Prep Extract Vol: 5.00 ml

Toluene D-8	108-88-3D	**50**	ug/L	2.0	0.22	50	**101**	81	129	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-01C Analysis Date: 8/5/2014 2:44:00PM
Prep Date: 08-05-2014 11:08 Instrument: Hach DR 3900
Analytical Method ID: SM4500-PE - Total Phos File Name:
Prep Method ID: 4500-PB Dilution Factor: 1
Prep Batch Number: T140804020
Report Basis: As Received Analyst Initials: jkk
Sample prep wt./vol: 10.00 ml Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Phosphorus, Total and Ortho		**ND**		mg/L	0.051	0.026	1

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 43 - Upstream of Dow Island**

Matrix: Aqueous Collection Date: 7/22/2014 10:18:00AM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A1407461-02A Analysis Date: 7/31/2014 12:25:00PM
Prep Date: 07-31-2014 12:07 Instrument: Thermospectr
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N File Name:
Prep Method ID: Dilution Factor: 1
Prep Batch Number: A140801001
Report Basis: As Received Analyst Initials: MC
Sample prep wt./vol: 25.00 ml Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		**0.137**		mg/L	0.10	0.015	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-02B Analysis Date: 7/31/2014 2:50:46PM
Prep Date: 07-31-2014 11:07 Instrument: Optima7300Icp
Analytical Method ID: 200. 7 - Metals by ICP - Total/TR File Name: 073114.csv
Prep Method ID: 200.7 Dilution Factor: 1
Prep Batch Number: T140731012
Report Basis: As Received Analyst Initials: AC
Sample prep wt./vol: 50.00 ml Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Calcium	7440-70-2	**9.76**		mg/L	0.10	0.0020	1
Iron	7439-89-6	**0.304**		mg/L	0.050	0.0070	
Magnesium	7439-96-4	**0.898**		mg/L	0.10	0.010	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-02D Analysis Date: 7/28/2014 4:56:00PM
Prep Date: 07-28-2014 10:07 Instrument: Nanook
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC File Name: 14072814.D
Prep Method ID: Dilution Factor: 1
Prep Batch Number: T140729001
Report Basis: As Received Analyst Initials: CK
Sample prep wt./vol: 5.00 ml Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/L	1.0	0.30	1
Ethylbenzene	100-41-4	**ND**		ug/L	1.0	0.30	
m&p Xylenes	108-38-3/106-	**ND**		ug/L	1.0	0.50	
O-Xylene	95-47-6	**ND**		ug/L	1.0	0.20	
Toluene	108-88-3	**ND**		ug/L	1.0	0.30	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
1,2-Dichloroethane-d4	17060-07-0	**50**		ug/L	2.0	0.50	50	**99.7**	76	133	1
Dibromofluoromethane	1868-53-7	**51**		ug/L	2.0	0.20	50	**102**	77	141	
p-Bromofluorobenzene	460-00-4	**49**		ug/L	2.0	0.50	50	**97.7**	80	120	

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 43 - Upstream of Dow Island**

Matrix: Aqueous Collection Date: 7/22/2014 10:18:00AM

Lab Sample Number: A1407461-02D
Analysis Date: 7/28/2014 4:56:00PM
Prep Date: 07-28-2014 10:07
Instrument: Nanook
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC
File Name: 14072814.D
Prep Method ID:
Dilution Factor: 1
Prep Batch Number: T140729001
Report Basis: As Received
Analyst Initials: CK
Sample prep wt./vol: 5.00 ml
Prep Extract Vol: 5.00 ml

Toluene D-8	108-88-3D	**50**	ug/L	2.0	0.22	50	**99.6**	81	129	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-02C
Analysis Date: 8/5/2014 2:44:00PM
Prep Date: 08-05-2014 11:08
Instrument: Hach DR 3900
Analytical Method ID: SM4500-PE - Total Phos
File Name:
Prep Method ID: 4500-PB
Dilution Factor: 1
Prep Batch Number: T140804020
Report Basis: As Received
Analyst Initials: jkk
Sample prep wt./vol: 10.00 ml
Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Phosphorus, Total and Ortho		**ND**		mg/L	0.051	0.026	1

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 44 - Mouth of Kiley River**

Matrix: Aqueous Collection Date: 7/22/2014 9:26:00AM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A1407461-03A
Prep Date: 07-31-2014 12:07
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N
Prep Method ID:
Prep Batch Number: A140801001
Report Basis: As Received
Sample prep wt./vol: 25.00 ml

Analysis Date: 7/31/2014 12:25:00PM
Instrument: Thermospectr
File Name:
Dilution Factor: 1
Analyst Initials: MC
Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		ND		mg/L	0.10	0.015	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-03B
Prep Date: 07-31-2014 11:07
Analytical Method ID: 200. 7 - Metals by ICP - Total/TR
Prep Method ID: 200.7
Prep Batch Number: T140731012
Report Basis: As Received
Sample prep wt./vol: 50.00 ml

Analysis Date: 7/31/2014 2:53:24PM
Instrument: Optima7300Icp
File Name: 073114.csv
Dilution Factor: 1
Analyst Initials: AC
Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Calcium	7440-70-2	**3.62**		mg/L	0.10	0.0020	1
Iron	7439-89-6	**1.87**		mg/L	0.050	0.0070	
Magnesium	7439-96-4	**1.15**		mg/L	0.10	0.010	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-03C
Prep Date: 08-05-2014 11:08
Analytical Method ID: SM4500-PE - Total Phos
Prep Method ID: 4500-PB
Prep Batch Number: T140804020
Report Basis: As Received
Sample prep wt./vol: 10.00 ml

Analysis Date: 8/5/2014 2:44:00PM
Instrument: Hach DR 3900
File Name:
Dilution Factor: 1
Analyst Initials: jkk
Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Phosphorus, Total and Ortho		ND		mg/L	0.051	0.026	1

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **RM 50 - Skilak Lake Outflow**

Matrix: Aqueous Collection Date: 7/22/2014 8:31:00AM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A1407461-04A
Prep Date: 08-04-2014 11:08
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N
Prep Method ID:
Prep Batch Number: A140805010
Report Basis: As Received
Sample prep wt./vol: 25.00 ml

Analysis Date: 8/4/2014 11:45:00AM
Instrument: Thermospectr
File Name:
Dilution Factor: 1
Analyst Initials: MC
Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		**0.147**		mg/L	0.10	0.015	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-04B
Prep Date: 07-31-2014 11:07
Analytical Method ID: 200. 7 - Metals by ICP - Total/TR
Prep Method ID: 200.7
Prep Batch Number: T140731012
Report Basis: As Received
Sample prep wt./vol: 50.00 ml

Analysis Date: 7/31/2014 2:56:00PM
Instrument: Optima7300Icp
File Name: 073114.csv
Dilution Factor: 1
Analyst Initials: AC
Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Calcium	7440-70-2	**10.3**		mg/L	0.10	0.0020	1
Iron	7439-89-6	**0.112**		mg/L	0.050	0.0070	
Magnesium	7439-96-4	**0.861**		mg/L	0.10	0.010	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-04C
Prep Date: 08-05-2014 11:08
Analytical Method ID: SM4500-PE - Total Phos
Prep Method ID: 4500-PB
Prep Batch Number: T140804020
Report Basis: As Received
Sample prep wt./vol: 10.00 ml

Analysis Date: 8/5/2014 2:44:00PM
Instrument: Hach DR 3900
File Name:
Dilution Factor: 1
Analyst Initials: jkk
Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Phosphorus, Total and Ortho		**ND**		mg/L	0.051	0.026	1

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Client Sample Report

Client Sample Name: **Trip Blank**

Matrix: Aqueous Collection Date: 7/22/2014 10:18:00AM

The following test was conducted by: Analytica - Thornton

Lab Sample Number: A1407461-05A
Prep Date: 07-28-2014 10:07
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC
Prep Method ID:
Prep Batch Number: T140729001
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 7/28/2014 2:47:00PM
Instrument: Nanook
File Name: 14072810.D
Dilution Factor: 1
Analyst Initials: CK
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/L	1.0	0.30	1
Ethylbenzene	100-41-4	**ND**		ug/L	1.0	0.30	
m&p Xylenes	108-38-3/106-	**ND**		ug/L	1.0	0.50	
O-Xylene	95-47-6	**ND**		ug/L	1.0	0.20	
Toluene	108-88-3	**ND**		ug/L	1.0	0.30	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
1,2-Dichloroethane-d4	17060-07-0	**50**		ug/L	2.0	0.50	50	**99.9**	76	133	1
Dibromofluoromethane	1868-53-7	**50**		ug/L	2.0	0.20	50	**99.5**	77	141	
p-Bromofluorobenzene	460-00-4	**49**		ug/L	2.0	0.50	50	**98.0**	80	120	
Toluene D-8	108-88-3D	**50**		ug/L	2.0	0.22	50	**100**	81	129	

Detailed Analytical Report

Analytica Group, LLC - Anchorage

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous Collection Date: 7/31/2014 12:25:00PM

The following test was conducted by: Analytica - Anchorage

Lab Sample Number: A140801001-MB
Prep Date: 07-31-2014 12:07
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N
Prep Method ID:
Prep Batch Number: A140801001
Report Basis: As Received
Sample prep wt./vol: 25.00 ml

Analysis Date: 7/31/2014 12:25:00PM
Instrument: Thermospectr
File Name:
Dilution Factor: 1
Analyst Initials: MC
Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		ND		mg/L	0.10	0.015	1

Lab Sample Number: A140805010-MB
Prep Date: 08-04-2014 11:08
Analytical Method ID: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - N
Prep Method ID:
Prep Batch Number: A140805010
Report Basis: As Received
Sample prep wt./vol: 25.00 ml

Analysis Date: 8/4/2014 11:45:00AM
Instrument: Thermospectr
File Name:
Dilution Factor: 1
Analyst Initials: MC
Prep Extract Vol: 25.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Nitrate-Nitrite as Nitrogen		ND		mg/L	0.10	0.015	1

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140731012-MB
Prep Date: 07-31-2014 11:07
Analytical Method ID: 200. 7 - Metals by ICP - Total/TR
Prep Method ID: 200.7
Prep Batch Number: T140731012
Report Basis: As Received
Sample prep wt./vol: 50.00 ml

Analysis Date: 7/31/2014 1:46:21PM
Instrument: Optima7300Icp
File Name: 073114.csv
Dilution Factor: 1
Analyst Initials: AC
Prep Extract Vol: 50.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Calcium	7440-70-2	ND		mg/L	0.10	0.0020	2
Iron	7439-89-6	ND		mg/L	0.050	0.0070	
Magnesium	7439-96-4	ND		mg/L	0.10	0.010	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140729001-MB
Prep Date: 07-28-2014 10:07
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC
Prep Method ID:
Prep Batch Number: T140729001
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 7/28/2014 1:11:00PM
Instrument: Nanook
File Name: 14072807.D
Dilution Factor: 1
Analyst Initials: CK
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:

Detailed Analytical Report

Analytica Group, LLC - Thornton

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Report Section: Method Blank Report

Client Sample Name: **MB**

Matrix: Aqueous Collection Date: 7/28/2014 10:00:00AM

Lab Sample Number: T140729001-MB
Prep Date: 07-28-2014 10:07
Analytical Method ID: 624 - Purgeable Organics by GC/MS - VOC
Prep Method ID:
Prep Batch Number: T140729001
Report Basis: As Received
Sample prep wt./vol: 5.00 ml

Analysis Date: 7/28/2014 1:11:00PM
Instrument: Nanook
File Name: 14072807.D
Dilution Factor: 1
Analyst Initials: CK
Prep Extract Vol: 5.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Benzene	71-43-2	**ND**		ug/L	1.0	0.30	1
Ethylbenzene	100-41-4	**ND**		ug/L	1.0	0.30	
m&p Xylenes	108-38-3/106-	**ND**		ug/L	1.0	0.50	
O-Xylene	95-47-6	**ND**		ug/L	1.0	0.20	
Toluene	108-88-3	**ND**		ug/L	1.0	0.30	

Surrogate	CASNo	Result	Flags	Units	PQL	MDL	Spike	% Recov	LCL	UCL	run #:
1,2-Dichloroethane-d4	17060-07-0	**50**		ug/L	2.0	0.50	50	**99.0**	76	133	1
Dibromofluoromethane	1868-53-7	**49**		ug/L	2.0	0.20	50	**98.8**	77	141	
p-Bromofluorobenzene	460-00-4	**52**		ug/L	2.0	0.50	50	**103**	80	120	
Toluene D-8	108-88-3D	**48**		ug/L	2.0	0.22	50	**96.2**	81	129	

The following test was conducted by: Analytica - Thornton

Lab Sample Number: T140804020-MB
Prep Date: 08-05-2014 11:08
Analytical Method ID: SM4500-PE - Total Phos
Prep Method ID: 4500-PB
Prep Batch Number: T140804020
Report Basis: As Received
Sample prep wt./vol: 10.00 ml

Analysis Date: 8/5/2014 2:44:00PM
Instrument: Hach DR 3900
File Name:
Dilution Factor: 1
Analyst Initials: jkk
Prep Extract Vol: 10.00 ml

Analyte	CASNo	Result	Flags	Units	PQL	MDL	run #:
Phosphorus, Total and Ortho		**ND**		mg/L	0.051	0.026	1

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Tests Run at: Analytica Environmental Laboratories - Anchorage, Alaska

Workorder (SDG): A1407461

Project: KWF Baseline Monitoring 2014

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **A140801001**

LCS REPORT

Analysis: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - MB: A140801001-MB

Prep Date: 7/31/2014

MB Anal. Date: 7/31/2014 12:25:00PM Units: mg/L

LCS Anal. Date: 7/31/2014 12:25:00PM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Nitrate-Nitrite as Nitrogen	ND	5.08	5.16	98.4	90 - 110		

Prep Batch: **A140805010**

SAMPLE DUPLICATE REPORT

Analysis: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - Base Sample: A1407461-04A

Prep Date: 8/4/2014

Samp. Anal. Date: 8/4/2014 11:45:00AM Units: mg/L

DUP Anal. Date: 8/4/2014 11:45:00AM Matrix: Aqueous

Analyte Name	SampResult	DUPRes.	RPD	RPDLim	Flag
Nitrate-Nitrite as Nitrogen	0.147	0.139	5.6	20	

LCS REPORT

Analysis: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - MB: A140805010-MB

Prep Date: 8/4/2014

MB Anal. Date: 8/4/2014 11:45:00AM Units: mg/L

LCS Anal. Date: 8/4/2014 11:45:00AM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Nitrate-Nitrite as Nitrogen	ND	5.05	5.16	97.9	90 - 110		

MS REPORT

Analysis: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method - Parent: A1407461-04A

Prep Date: 8/4/2014

Samp. Anal. Date: 8/4/2014 11:45:00AM Units: mg/L

MS Anal. Date: 8/4/2014 11:45:00AM Matrix: Aqueous

Analyte Name	SampResult	MSRes.	SPLev	Recov.	Recov Lim	Flag
Nitrate-Nitrite as Nitrogen	0.147	0.342	0.206	94.5	80 - 120	

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A1407461

Project: KWF Baseline Monitoring 2014

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140731012**

LCS REPORT

Analysis: 200. 7 - Metals by ICP - Total/TR

MB: T140731012-MB

Prep Date: 7/31/2014

MB Anal. Date: 7/31/2014 1:46:21PM

Units: mg/L

LCS Anal. Date: 7/31/2014 1:51:21PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Calcium	ND	9.37	10.0	93.7	85 - 115		
Iron	ND	1.01	1.00	101.0	85 - 115		
Magnesium	ND	9.82	10.0	98.2	85 - 115		

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A1407461

Project: KWF Baseline Monitoring 2014

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140729001**

LCS/LCSD REPORT

Analysis: 624 - Purgeable Organics by GC/MS - VOC

MB: T140729001-MB

Prep Date: 7/28/2014

MB Anal. Date: 7/28/2014 1:11:00PM

Units: ug/L

LCS Anal. Date: 7/28/2014 11:34:00AM LCSD Anal. Date: 7/28/2014 12:06:00PM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Benzene	ND	25.6	25.9	25.0	25.0	102.4	103.6	1.2	72 - 132	20	
Toluene	ND	25.8	26.0	25.0	25.0	103.2	104.0	0.8	80 - 120	20	
Ethylbenzene	ND	25.0	25.4	25.0	25.0	100.0	101.6	1.6	79 - 126	20	
m&p Xylenes	ND	50.5	51.1	50.0	50.0	101.0	102.2	1.2	76 - 119	20	
O-Xylene	ND	25.1	25.3	25.0	25.0	100.4	101.2	0.8	84 - 123	20	

MS/MSD REPORT

Analysis: 624 - Purgeable Organics by GC/MS - VOC

Parent: A1407461-02D

Prep Date: 7/28/2014

Samp. Anal. Date: 7/28/2014 4:56:00PM

Units: ug/L

MS Anal. Date: 7/28/2014 5:27:00PM MSD Anal. Date: 7/28/2014 5:59:00PM Matrix: Aqueous

Analyte Name	SampResult	MSRes.	MSDRes	SPLev	SPDLev	Recov.	MSD Rec.	RPD	Recov Lim	RPDLim	Flag
Benzene	ND	128	137	125	125	102.4	109.6	6.8	72 - 132	20	
Toluene	ND	127	137	125	125	101.6	109.6	7.6	80 - 120	20	
Ethylbenzene	ND	123	133	125	125	98.4	106.4	7.8	79 - 126	20	
m&p Xylenes	ND	249	269	250	250	99.6	107.6	7.7	76 - 119	20	
O-Xylene	ND	124	134	125	125	99.2	107.2	7.8	84 - 123	20	

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado

Workorder (SDG): A1407461

Project: KWF Baseline Monitoring 2014

Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T140804020**

LCS REPORT

Analysis: SM4500-PE - Total Phos

MB: T140804020-MB

Prep Date: 8/5/2014

MB Anal. Date: 8/5/2014 2:44:00PM

Units: mg/L

LCS Anal. Date: 8/5/2014 2:44:00PM

Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SPLev	Recov.	Recov Lim	RPDLim	Flag
Phosphorus, Total and Ortho	ND	0.496	0.500	99.2	80 - 120		

FOOTNOTES TO QC REPORT

Note 1: Results are shown to three significant figures to avoid rounding errors in calculations.

Note 2: If the sample concentration is greater than 4 times the spike level, a recovery is not meaningful, and the result should be used as a replicate. In such cases the spike is not as high as expected random measurement variability of the sample result itself.

Note 3: For sample duplicates, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample and duplicate results are not five times the PQL or greater, then the RPD is not expected to fall within the window shown and the comparison should be made on the basis of the absolute difference. Analytica uses the criterion that the absolute difference should be less than the PQL for water or less than 2XPQL for other matrices.

Note 4: For serial dilutions, if the result is less than the PQL, the duplicate RPD is not applicable. If the sample result is not 50 times the MDL or greater, then the fact that the RPD does not meet the 10% criterion has little signifcance. Otherwise it indicates that a matrix bias may exist at the analytical step.

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

SURROGATE RECOVERY SUMMARY REPORT

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Test Method: **624 - Purgeable Organics by GC/MS - VOC**

Lab Sample #: A1407461-05A Dilution: 1
Analysis Date: 7/28/2014 2:47:00PM Client Sample: **Trip Blank**
Batch Number: T140729001 Data File: 14072810.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	100	76	133		Complete
Dibromofluoromethane	100	77	141		Complete
p-Bromofluorobenzene	98	80	120		Complete
Toluene D-8	100	81	129		Complete

Lab Sample #: A1407461-01D Dilution: 1
Analysis Date: 7/28/2014 4:23:00PM Client Sample: **RM 40 - Bing's Landing**
Batch Number: T140729001 Data File: 14072813.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	101	76	133		Complete
Dibromofluoromethane	102	77	141		Complete
p-Bromofluorobenzene	98	80	120		Complete
Toluene D-8	101	81	129		Complete

Lab Sample #: A1407461-02D Dilution: 1
Analysis Date: 7/28/2014 4:56:00PM Client Sample: **RM 43 - Upstream of Dow Island**
Batch Number: T140729001 Data File: 14072814.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	100	76	133		Complete
Dibromofluoromethane	102	77	141		Complete
p-Bromofluorobenzene	98	80	120		Complete
Toluene D-8	100	81	129		Complete

Lab Sample #: T140729001-MB Dilution: 1
Analysis Date: 7/28/2014 1:11:00PM Client Sample: **MB**
Batch Number: T140729001 Data File: 14072807.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	99	76	139		Complete
Dibromofluoromethane	99	77	141		Complete
p-Bromofluorobenzene	103	80	120		Complete
Toluene D-8	96	81	129		Complete

Lab Sample #: T140729001-LCS Dilution: 1
Analysis Date: 7/28/2014 11:34:00AM Client Sample: **LCS**
Batch Number: T140729001 Data File: 14072804.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	100	76	139		Complete
Dibromofluoromethane	101	77	141		Complete
p-Bromofluorobenzene	100	80	120		Complete
Toluene D-8	99	81	129		Complete

Lab Sample #: T140729001-LCSD Dilution: 1
Analysis Date: 7/28/2014 12:06:00PM Client Sample: **LCSD**
Batch Number: T140729001 Data File: 14072805.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

Test Method: **624 - Purgeable Organics by GC/MS - VOC**

Lab Sample #: T140729001-LCSD Dilution: 1
Analysis Date: 7/28/2014 12:06:00PM Client Sample: **LCSD**
Batch Number: T140729001 Data File: 14072805.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	101	76	139		Complete
Dibromofluoromethane	99	77	141		Complete
p-Bromofluorobenzene	100	80	120		Complete
Toluene D-8	99	81	129		Complete

Lab Sample #: A1407461-02D-MS Dilution: 5
Analysis Date: 7/28/2014 5:27:00PM Client Sample: **MS**
Batch Number: T140729001 Data File: 14072815.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	101	76	133		Complete
Dibromofluoromethane	103	77	141		Complete
p-Bromofluorobenzene	97	80	120		Complete
Toluene D-8	99	81	129		Complete

Lab Sample #: A1407461-02D-MSD Dilution: 5
Analysis Date: 7/28/2014 5:59:00PM Client Sample: **MSD**
Batch Number: T140729001 Data File: 14072816.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
1,2-Dichloroethane-d4	101	76	133		Complete
Dibromofluoromethane	102	77	141		Complete
p-Bromofluorobenzene	96	80	120		Complete
Toluene D-8	98	81	129		Complete

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **162,324** **Lab Project Number:** **A1407461**

Prep Date: 7/28/2014

Lab Method Blank Id: T140729001-MB
Prep Batch ID: T140729001
Method: 624 - Purgeable Organics by GC/MS - VOC

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
T140729001-LCS	LCS	14072804.D	7/28/2014 11:34:00AM
T140729001-LCSD	LCSD	14072805.D	7/28/2014 12:06:00PM
A1407461-05A	Trip Blank	14072810.D	7/28/2014 2:47:00PM
A1407461-01D	RM 40 - Bing's Landing	14072813.D	7/28/2014 4:23:00PM
A1407461-02D	RM 43 - Upstream of Dow Island	14072814.D	7/28/2014 4:56:00PM
A1407461-02D-MS	MS	14072815.D	7/28/2014 5:27:00PM
A1407461-02D-MSD	MSD	14072816.D	7/28/2014 5:59:00PM

Prep Date: 7/31/2014

Lab Method Blank Id: T140731012-MB
Prep Batch ID: T140731012
Method: 200. 7 - Metals by ICP - Total/TR

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A1407459-01B	Batch QC	073114.csv	7/31/2014 1:58:43PM
A1407461-01B	RM 40 - Bing's Landing	073114.csv	7/31/2014 2:48:09PM
A1407461-02B	RM 43 - Upstream of Dow Island	073114.csv	7/31/2014 2:50:46PM
A1407461-03B	RM 44 - Mouth of Kiley River	073114.csv	7/31/2014 2:53:24PM
A1407461-04B	RM 50 - Skilak Lake Outflow	073114.csv	7/31/2014 2:56:00PM
T140731012-LCS	LCS	073114.csv	7/31/2014 1:51:21PM
A1407459-01B-DUP	DUP	073114.csv	7/31/2014 2:01:28PM
A1407459-01B-MS	MS	073114.csv	7/31/2014 2:06:45PM
A1407459-01B-MSD	MSD	073114.csv	7/31/2014 2:09:27PM

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **162,324** **Lab Project Number:** **A1407461**

Prep Date: 7/31/2014

Lab Method Blank Id: A140801001-MB
Prep Batch ID: A140801001
Method: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method -

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A1407460-03A	Batch QC		7/31/2014 12:25:00PM
A1407461-01A	RM 40 - Bing's Landing		7/31/2014 12:25:00PM
A1407461-02A	RM 43 - Upstream of Dow Island		7/31/2014 12:25:00PM
A1407461-03A	RM 44 - Mouth of Kiley River		7/31/2014 12:25:00PM
A140801001-LCS	LCS		7/31/2014 12:25:00PM
A1407460-03A-DUP	DUP		7/31/2014 12:25:00PM
A1407460-03A-MS	MS		7/31/2014 12:25:00PM

Prep Date: 8/5/2014

Lab Method Blank Id: T140804020-MB
Prep Batch ID: T140804020
Method: SM4500-PE - Total Phos

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A1407460-01C	Batch QC		8/5/2014 2:44:00PM
A1407461-01C	RM 40 - Bing's Landing		8/5/2014 2:44:00PM
A1407461-02C	RM 43 - Upstream of Dow Island		8/5/2014 2:44:00PM
A1407461-03C	RM 44 - Mouth of Kiley River		8/5/2014 2:44:00PM
A1407461-04C	RM 50 - Skilak Lake Outflow		8/5/2014 2:44:00PM
T140804020-LCS	LCS		8/5/2014 2:44:00PM
A1407460-01C-DUP	DUP		8/5/2014 2:44:00PM
A1407460-01C-MS	MS		8/5/2014 2:44:00PM
A1407460-01C-MSD	MSD		8/5/2014 2:44:00PM

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **162,324** **Lab Project Number:** **A1407461**

Prep Date: 8/4/2014

Lab Method Blank Id: A140805010-MB

Prep Batch ID: A140805010

Method: SM4500-NO3E - Nitrogen (Nitrate), Cadmium Reduction Method -

This Method blank and sample preparation batch are associated with the following samples, spikes, and duplicates:

SampleNum	ClientSampleName	DataFile	AnalysisDate
A1407461-04A	RM 50 - Skilak Lake Outflow		8/4/2014 11:45:00AM
A140805010-LCS	LCS		8/4/2014 11:45:00AM
A1407461-04A-DUP	DUP		8/4/2014 11:45:00AM
A1407461-04A-MS	MS		8/4/2014 11:45:00AM

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

DATA FLAGS AND DEFINITIONS

The PQL is the Method Quantitation Limit as defined by USACE.
Reporting Limit: Limit below which results are shown as "ND". This may be the PQL, MDL, or a value between. See the report conventions below.

Result Field:

ND = Not Detected at or above the Reporting Limit
NA = Analyte not applicable (see Case Narrative for discussion)

Qualifier Fields:

LOW = Recovery is below Lower Control Limit
HIGH = Recovery , RPD, or other parameter is above Upper Control Limit
E = Reported concentration is above the instrument calibration upper range

Organic Analysis Flags:

B = Analyte was detected in the laboratory method blank
J = Analyte was detected above MDL or Reporting Limit but below the Quant Limit (PQL)

Inorganic Analysis Flags:

J = Analyte was detected above the Reporting Limit but below the Quant Limit (PQL)
W = Post digestion spike did not meet criteria
S = Reported value determined by the Method of Standard Additions (MSA)

Several ways of defining the limit of detection and quantitation are prevalent in the laboratory industry and may appear in Analytica reports. These include the following:

MRL = "minimum reporting level", from the EPA Safe Drinking Water program (SDW)
PQL = "practical quantitation limit", from SW-846
EQL = "estimated quantitation limit", from SW-846
LOQ = "limit of quantitation", from a number of authoritative sources

In Analytica's work, all of these terms have the same meaning, equivalent to the EPA definition of the MRL. This reporting level is supported by a satisfactory calibration data point which is at that level or lower, and also is supported by a method detection limit (MDL) determined by the procedure in 40CFR. The MDL is lower than the MRL and represents an estimate of the level where positive detections have a 99% probability of being real, but where quantitation accuracy is unknown.

The MRL as defined by Analytica is the lowest demonstrated point of known quantitation accuracy.
The MRL should not be confused with the MCL, which is the EPA-defined "maximum contaminant level" allowed for certain regulated targets under specific regulations, such as the National Primary Drinking Water Regulations. Normally, the MRL is set at a level which is much lower than the MCL in order to ensure that levels are well below those limits. Not all target analytes have MCL levels established.

Other Flags may be applied. See Case Narrative for Description

Workorder (SDG): A1407461

Project: **KWF Baseline Monitoring 2014**

Client: **Kenai Watershed Forum**

Client Project Number: **None**

REPORTING CONVENTIONS FOR THIS REPORT

A1407461

TestPkgName	Basis	# Sig Figs	Reporting Limit
200.7/200.7 (Aqueous) - Total/TR	As Received	3	Report to PQL
4500-NO3E (Aqueous) - Nitrate+Nitrite pres	As Received	3	Report to PQL
4500-PE/4500-PB (Aqueous) - Total Phos	As Received	2	Report to PQL
624 (Aqueous) - VOC	As Received	2	Report to MDL, J qual below PQL

Analytica Chain of Custody Form

ANALYTICA GROUP

121889 Pennsylvania St. Thornton, CO 80241 (303) 469-8868
4307 Arctic Blvd. Anchorage, AK 99503 (907) 258-2155 (907) 258-6634 fax
475 Hall Street. Fairbanks, AK 99701 (907) 456-3116 (907) 456-3125 fax
1203 W. Parks Highway Wasilla, Alaska 99654 (907) 373-5440

Chain of Custody No:

Client Name & Address:
Kenai Watershed Forum
44129 Sterling Hwy
Soldotna, AK 99669

Contact Person: **Branden Bornemann**
Phone No: **(907) 260-5449**
Fax No: (907) 260-5412
E-mail: **branden@kenaiwatershed.org**

TEAM ID: DNR and DEC

Project Name: Kenai River Baseline Project - July 2014

Turnaround Time for Results (TAT)
___ Standard ___ Expedited (< 10 days, prior authorization required)
(please specify due date below; add'l charges may apply)

Results Due Date:

Special Instructions/Comments:
Bing vcc- Iced w/ bubble ~ 4mm msize

Section To be Completed by Analytica
Quote ID No: A14040019
LGN: A1407461
Account #: Cash: Credit Card:

Invoice to Name & Address:

P.O. or Contract

Requested Analysis/Method

Lab Bottle Order No: / Client Sample Identification / Location	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Nitrate SM4500-NO3E Lot #: Pres: H2SO4	200.7 Metals by ICP-Total TR Lot #: Pres: HNO3	200.8 Dissolved Metals Lot #: Pres: HNO3	Total Phos SM4500 Lot #: Pres: H2SO4	BTEX Lot #: Pres: HCl	Lot #: Pres:	Lot #: Pres:	Field Preserved	Field Filtered	MS/MSD ?
RM 40- Bing's Landing	7-22-14	11:11	Aq	8	✓	✓		✓	✓					
RM 43- Upstream of Dow Island	7-22-14	10:18	Aq	8	✓	✓		✓	✓					
RM 44- Mouth of Kiley River	7-22-14	09:26	Aq	4	✓	✓		✓						
RM 50- Skilak Lake Outflow	7-22-14	08:31	Aq	4	✓	✓		✓						
Trip Blank			Aq	2										

Collected/Relinquished by:	Date	Time	Received by:	Date	Time
	7-22-14	12:33		7-22-14	12:33
Relinquished by:	Date	Time	Received by:	Date	Time
	7-22-14	12:33		7/22/14	1233
Relinquished by:	Date	Time	Received by:	Date	Time
	7/22/14	1635		7/22/14	1635
Name of Sampler: (printed)					

To be Completed by Analytica

	THO	ANC	JUN	FBKS
Chain-of-Custody Seal?:		N/A		
Initialed By:		—		
Temp/Loc:		6-6*		
Thermo ID#:		83135		
Shipping Via:		Lab Pickup		

*rec'd on ice