December 9, 2005

Ms. Monica English
Alaska Dept. of Environmental Conservation
Contaminated Sites Program
43335 Kalifornsky Beach Rd, Suite 11
Soldotna, Alaska 99669

Subject: Kenai Airport Fuel Service, Spill #90230026801 at UST Facility ID #2187
October 2005 Remedial Action Monitoring Report

Dear Ms. English,

On behalf of Dan Pitts and Dean Eichholz, I am enclosing the subject letter report for your review and comment. Please return comments to Dan Pitts or Dean Eichholz.

Groundwater monitoring was conducted at the KAFS site on October 26, 2005. The enclosed letter report provides details of remedial action during 2005. The monitoring event was conducted in accordance with the Remedial Action Work Plan developed for the site in 2004.

The treatment system was inspected on October 26, 2005. The AS system was still operating as designed and airflow rates through the system were about 35 standard cubic feet per minute (SCFM). The SVE system was operating effectively and tests at MP-1 and MP-4 showed that the system is generating vacuum within the treatment area and removing air that is being injected into the treatment zone by the AS blowers.

Sincerely,

Mark Prieksat, Ph.D.

cc: Dan Pitts, Dean Eichholz

October 2005 Remedial Action Monitoring Report
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Remedial Action - Air Sparging (AS)

A system evaluation was completed during May 2005. The study evaluated the effectiveness of the existing AS wells and blower system. Pressure tests were conducted on each well to determine the cause of low airflow into the treatment zone. Data from the pressure tests indicated that regardless of the pressure applied, the wells would not allow adequate airflow into the soil. As a result, the stainless-steel drive points were pulled and replaced with conventional augured air sparging wells. Hughes Drilling replaced the AS wells on June 6 and 7, 2005. The air supply piping was reconnected on June 10, 2005 and the air sparging system brought back online. The AS system operated continuously from June 10, 2005 until November 15, 2005, when it was shut down due to frozen soil conditions.

Air flow and system pressure was checked on June 10, 2005. Air flow through the system was 37 standard cubic feet per minute (SCFM) at a pressure of about 3 pounds per square inch (PSI). The system injected roughly 6 SCFM through each of the 6 wells installed into the treatment zone. The system operated within the required temperature range of the blowers and did not overheat during the test period.

Remedial Action – Soil Vapor Extraction (SVE)

The SVE system was turned on April 23, 2005 and operated until November 15, 2005. The system operated throughout the entire treatment cycle and did not require any maintenance. Soil vacuum measurements were recorded at MP-1, MP-3, and MP-4 on June 10, 2005. Soil vacuum measurements were 3.4, 3.1, and 2.9 inches of water column vacuum, respectively. These measurements are consistent with measurements taken throughout the 2004 operating season. Soil vacuum measurements indicated that the SVE system was working as designed and extracting soil gas from the treatment area.

Remedial Action - Groundwater Monitoring

Groundwater samples were collected from the KAFS site on October 26, 2005. Water samples were collected from 5 existing monitor wells located at the site. The wells sampled during this event were MW-1, MW-6, MW-9, MW-12, and MW-13. The static water levels in the wells were measured prior to collection of groundwater samples. Static water levels were measured as the distance from the top of the PVC well riser to the groundwater surface. Groundwater elevations were also measured at MW-4 and MW-8. Measured elevations were 93.62 and 91.08, respectively.

Each groundwater well was purged prior to sampling by pumping water the well until the water was clear and free of sediment. At least 3 well volumes were removed from each well prior to sample collection. A portable Johnson-Keck low-flow pump was used to purge each well. Groundwater samples were collected after the wells had been purged.

Analytical Results

Groundwater samples collected from wells at the site were taken to Analytica Alaska for testing to determine the presence of BTEX by EPA method 8021B and GRO by method AK101. Analytical results are presented in the following tables and results are reported in mg/l or ppm. Shaded cells indicate concentrations that exceed the cleanup levels listed in Table C of 18AAC75.345. The analytical laboratory data sheets are included in Appendix A and the back of the report.

MW-1: Analytical results from the October 2005 sampling event indicate that the levels of all the fuel constituents had decreased dramatically. Benzene concentration in groundwater is greater than the cleanup standard, but has dropped significantly. Groundwater collected from this location in 2004 had a noticeable odor, which was not detected during the October 2005 sampling event.

Table 1 – Groundwater Analytical Results for MW-1

Sample ID#	Date	SWL	GRO	Benz	Tol	E-Benz	Xylenes	EDB
KA-42	8/03/94	90.8	NA	64.2	62.7	2.46	11.6	NA
KAFS-99-2	6/16/99	91.5	79	12.6	21.5	1.45	7.1	0.010000
KAFS-99-21W	9/13/99	91.6	3.4	0.5	0.7	0.13	0.4	NA
KAFS-99-24W	11/29/99	91.6	64	12.8	12.1	0.06	2.5	NA
KAFS-00-32W	7/06/00	91.6	200	32.4	45.5	2.64	12.7	NA
KAFS-00-38	12/13/00	91.1	170	34.6	45.2	2.14	10.1	NA
No ID #	5/30/02	91.3	NS	NS	NS	NS	NS	NS
KAFS-02-13	10/31/02	92.6	0.5	0.054	0.07	0.01	0.04	0.000022
KAFS-03-07	8/06/03	91.0	157	28.2	48.3	3.58	17.2	NA
KAFS91104W-1	9/11/04	91.0	137	16.5	37	2.41	8.97	NS
KAFS20051026MWSW05	10/26/05	92.04	U	0.031	0.029	0.011	0.048	NS
Cleanup Level			*1.3*	*0.005*	*1.00*	*0.70*	*10.0*	*0.000050*

(results are reported in mg/l or ppm)

MW-6: Analytical results from the October 2005 sampling event indicate that the levels of all the fuel constituents had decreased dramatically. Benzene concentration in groundwater is only slightly greater than the cleanup level at this location. All other analytes were either not detected or were detected at levels less than cleanup standards. Groundwater collected from this location in 2004 had a noticeable odor, which was not detected during the October 2005 sampling event.

Table 2 – Groundwater Analytical Results for MW-6

Sample ID#	Date	SWL	GRO	Benz	Tol	E-Benz	Xylenes	EDB
KAFS-99-25W	11/29/99	91.6	75	11.2	14.7	1.08	4.5	NA
KAFS-00-32W	7/06/00	91.1	55	9.41	12.1	0.79	3.2	NA
KAFS-00-37	12/13/00	91.1	163	30.2	41.5	2.57	11.5	NA
Not sampled	5/30/02	91.3	NS	NS	NS	NS	NS	NS
KAFS-02-14	10/31/02	92.6	0.1	0.003	0.002U	0.004	0.018	0.00002U
KAFS-03-08	8/06/03	90.9	94.9	22.2	30.2	2.63	11.6	0.00150
KAFS91104W-6	9/11/04	91.0	136	21.2	35.1	2.05	6.11	NS
KAFS20051026MWSW04	10/26/05	92.01	U	0.0055	0.0099	U	0.013	NS
Cleanup Level			*1.3*	*0.005*	*1.00*	*0.70*	*10.0*	*0.000050*

(results are reported in mg/l or ppm)

MW-9: MW-9 was installed in 2002. Analytical test results indicate most of the contamination levels have declined since the well was installed. The 2004 sample results indicated that benzene levels had declined and were near cleanup levels. The October 2005 results indicate that the benzene level increased slightly and still exceeded the cleanup standard. All other analytes were less than cleanup levels.

Table 3 - Groundwater Analytical Results for MW-9

Sample ID#	Date	SWL	GRO	Benz	Tol	E-Benz	Xylenes	EDB
KAFS-02-06	5/30/02	90.2	29.1	5.48	6.92	0.38	0.8	0.000069
KAFS-02-10	10/31/02	91.6	5.1	0.74	0.85	0.90	0.3	0.000186
KAFS-03-09	8/06/03	90.2	0.14	0.042	0.006	0.014	0.021	0.000034
KAFS91104W-9	9/11/04	90.1	U	0.0232	U	U	0.00507	NS
KAFS20051026MWSW01	10/26/05	91.32	0.360	0.1	0.0016	0.0084	0.020	NS
Cleanup Level			*1.3*	*0.005*	*1.00*	*0.70*	*10.0*	*0.000050*

(results are reported in mg/l or ppm)

MW-12: MW-12 was installed in 2004 during initial testing for installation of the treatment system. Analytical test results from the April 2004 monitoring event show that benzene, toluene, and GRO were detected at concentrations greater than cleanup levels. Results from the September 2004 sampling event indicate that none of the analytes were detected at concentrations exceeding cleanup levels. However, sampling conducted in October 2005 showed that the concentration of GRO, benzene, toluene, and ethylbenzene all exceeded cleanup standards and had increased significantly since the initial sampling in April 2004.

Table 4 - Groundwater Analytical Results at MW-12

Sample ID#	Date	SWL	GRO	Benz	Tol	E-Benz	Xylenes	EDB
KAFS-04-05W	4/11/04	92.6	71	3.19	14.8	U	4.48	NS
KAFS91104W-12	9/11/04	91.4	U	0.0006083	U	U	U	NS
KAFS20051026MWSW03	10/26/05	93.3	130	3.9	28	1.5	9.8	NS
Cleanup Level			*1.3*	*0.005*	*1.00*	*0.70*	*10.0*	*0.000050*

(results are reported in mg/l or ppm)

MW-13: MW-13 was installed in 2004 during initial testing for installation of the treatment system. Analytical test results from the April 2004 monitoring event show that none of the fuel constituents were detected at concentrations greater than cleanup levels. Results from the October 2005 sampling event confirm that fuel contamination, while present, remains at levels less than cleanup standards.

Table 4 - Groundwater Analytical Results at MW-13

Sample ID#	Date	SWL	GRO	Benz	Tol	E-Benz	Xylenes	EDB
KAFS-04-06W MW13 GW	4/14/04	91.06	0.285	0.000562	U	U	U	NS
KAFS20051026MWSW02	10/26/05	93.3	0.120	0.0013	U	U	U	NS
Cleanup Level			*1.3*	*0.005*	*1.00*	*0.70*	*10.0*	*0.000050*

(results are reported in mg/l or ppm)

Interpretation of Groundwater Monitoring Results

Groundwater elevations were used to generate a contour map of the site shown in Figure 1. Although the groundwater level was higher than previous years, the groundwater elevations measured as part of this sampling event were consistent with previous results. The direction of flow was south towards the Kenai Airport Terminal and MW-9. This is also consistent with results from the last sampling event. Overall, the gradient remained consistent at 0.0025 ft/ft when measured across the site.

The data indicates that contaminant levels have dropped in the area located to the north of the evaporation pond. Results from MW-1 and MW-6 indicate that the levels of all contaminants have decreased dramatically since 2004. This is likely a function of treatment in the up gradient area. The AS system was brought online in June 2005 and appears to be functioning as designed to remove contaminants from groundwater at the site. The fuel odor detected when MW-1 and MW-6 were sampled in 2004 was not present during the 2005 sampling event and is good indicator that the treatment system is operating effectively.

Contaminant levels at MW-12 have increased significantly since August 2004 and are greater than the initial levels measured during installation of the well. This is likely the result of fuel releases in the immediate area around MW-12. The groundwater gradient at the site indicates that water would not flow from the original tank site location into the area at MW-12. Thus, contaminants detected in that area would have been released in that same general area. The ratio of xylene and toluene are relatively high compared to that of benzene, indicating a more recent fuel release. The September 2004 Remedial Action Report provided credible evidence that fuel releases continue to be a problem at this site, due to the actions of current fueling system owners and tenants.

Groundwater contaminant levels at MW-9 have increased slightly but seem to be consistent with results of previous sampling events. Contaminant levels at MW-13 have been consistently below cleanup standards since the well was installed in 2004.

Conclusions and Recommendations

The 2005 sampling results provide a positive indication that the treatment system is effectively remediating the site. The area around MW-12 remains problematic, but is within the treatment zone. Further treatment should effectively eliminate the fuel contaminant source and result in decreases in contaminant levels in groundwater at the site.

The following are recommendations for further treatment at the site:

1) Bring the entire treatment system online during late March or early April 2006. The timing will ultimately be dictated by frost or frozen soil conditions. Whenever conditions indicate that the soil has thawed enough to allow airflow through the SVE system, then the entire system can be operated. It is not advised to operate the AS system without operating the SVE system to remove the

injected air volume. Operating the AS system alone could result in vapor intrusion into structures at the site.

2) Inject an oxygen releasing compound (ORC) into MW-12 to attempt to strip contaminants from groundwater in that area. The SVE system will eventually strip contaminants from soil in the area around MW-12, but groundwater contamination remains a problem. The ORC should allow groundwater treatment in a zone not affected by the current AS system.
3) Discontinue monitoring at MW-13 for the current time. The well would be monitoring during site closure activities to ensure that contaminant levels in that area remain less than cleanup standards.

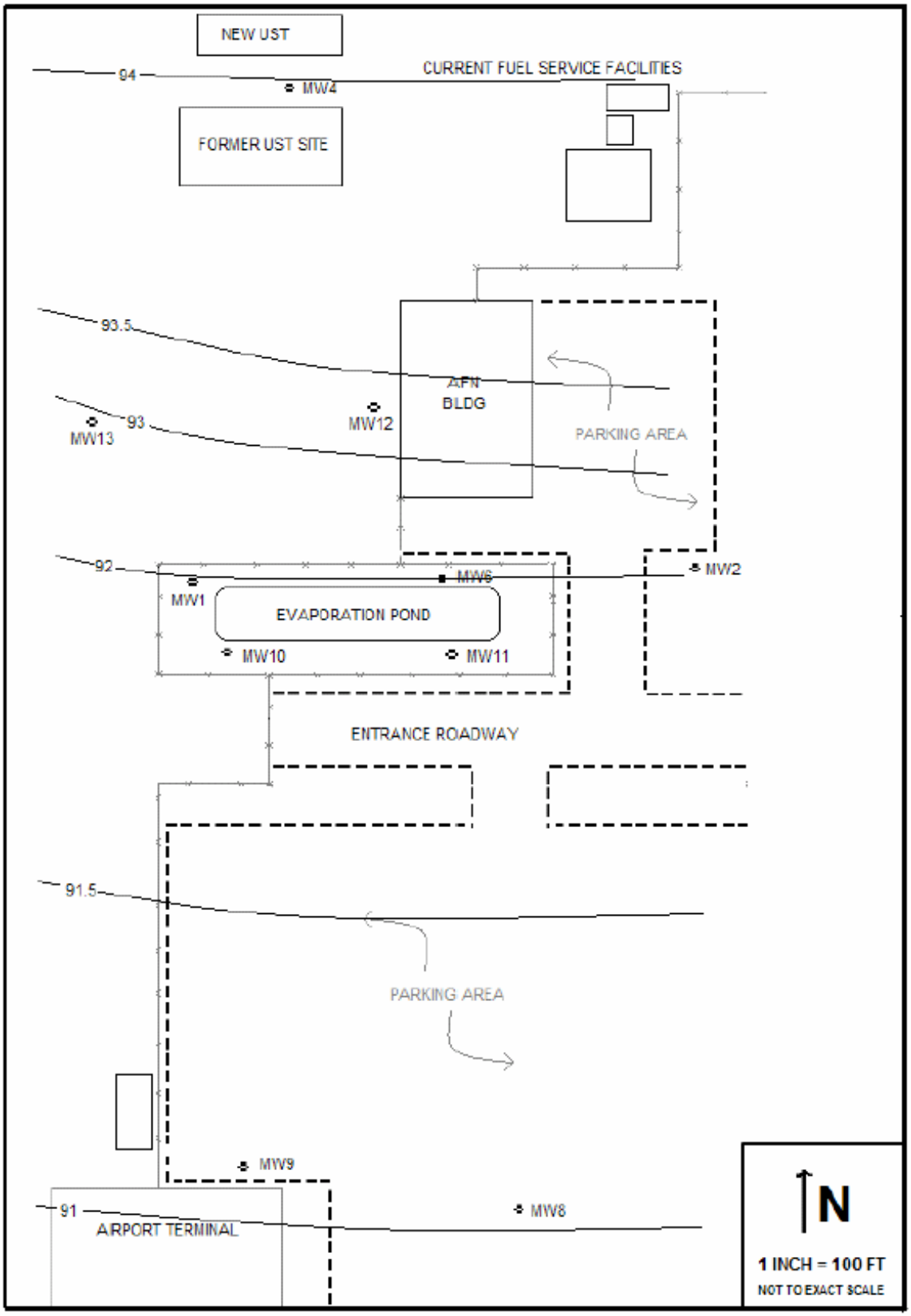

Figure 1: Groundwater Elevation Contour Plot for KAFS Site – October 2005.

Appendix A – Analytical Laboratory Data Sheets

Analytica International, Inc.
5761 Silverado Way, Unit N
Anchorage, AK 99518
907-258-2155
Fax: 907-258-6634

11/18/2005

Mark Prieksat
2726 Holly Place
Fort Collins, CO 80526
Attn: Mark Prieksat

Work Order #: A0510295
Date: 11/18/2005
Work ID: KAFS
Date Received: 10/28/2005

Sample Identification

Lab Sample Number	Client Description	Lab Sample Number	Client Description
A0510295-01	KAFS20051026MWSW01	A0510295-02	KAFS20051026MWSW02
A0510295-03	KAFS20051026MWSW03	A0510295-04	KAFS20051026MWSW04
A0510295-05	KAFS20051026MWSW05		

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,

Joe Egry
Project Manager

"The Science of Analysis, The Art of Service"

Case Narrative

Analytica Alaska Inc.
Work Order: A0510295

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

Method AK101 For the Determination of Gasoline Range Organics, Revision 3.0, 01/31/96.

Test Methods for Evaluating Solid Waste, USEPA SW-846, Third Edition, Revision 4, December 1996.

REVIEW FOR COMPLIANCE WITH ANALYTICA QA PLAN
A summary of our review is shown below, organized by test:

SAMPLE RECEIPT:
Five (5) samples were received at a temperature of 2.4 deg C at Analytica-Anchorage on 10/28/2005 8:21:00 AM.

The samples were transferred for analysis at Analytica Environmental Laboratories (AEL); 12189 Pennsylvania St. Thornton, CO 80241 where they were received at a temperature of 1.4°C in good condition and in order per chain of custody with the following exceptions. Sample KAFS20051026MWSW01 (A0510295-01A) was received with two of the three vials broken. Sample KAFS20051026MWSW03 (A0510295-03A) had head space in all vials.

Test Method: ADEC AK101 - GRO - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
There were no unusual observations.

INSTRUMENT PERFORMANCE CHECKS:
Instrument checks were within method criteria.

INITIAL CALIBRATIONS:
Initial calibrations were within method criteria.

OPENING CONTINUING CALIBRATIONS:
Opening continuing calibrations were within method criteria.

CLOSING CONTINUING CALIBRATIONS:
Closing continuing calibrations were within method criteria or not applicable.

INTERNAL STANDARD AREAS:
There were no Internal Standard outliers.

SURROGATE RECOVERIES:
The p-Bromofluorobenzene surrogate is outside of control windows in the samples shown below. This is a field spike, and is not controlled by the laboratory systems. The high recovery of this surrogate may indicate a matrix effect.

Sample	LabID	Surrogate	Recovery	LCL	UCL

KAFS20051026MWS	A0510295-03A	p-Bromofluorobenzene	134	70	130	Complete
KAFS20051026MWS	A0510295-04A	p-Bromofluorobenzene	132	70	130	Complete

METHOD BLANK OUTLIERS:
There are no method blank outliers.

LCS OUTLIERS:
The LCSD shown below has the target slightly outside of control windows.

Type	BatchNumber	Analyte	Recovery	LCL	UCL	Status
LCSD	T051107013	Gasoline Range Organics	110.	74	110	Complete

MS/MSD and DUP OUTLIERS:
There are no MS/MSD or DUP outliers.

Test Method: Aromatic VOCs by GC/PID via method 8021B - BTEX - Aqueous

HOLDING TIMES:
Holding times were met for this Test

SAMPLE PREPARATION ISSUES AND OBSERVATIONS:
There were no unusual observations.

INSTRUMENT PERFORMANCE CHECKS:
Instrument checks were within method criteria.

INITIAL CALIBRATIONS:
Initial calibrations were within method criteria.

OPENING CONTINUING CALIBRATIONS:
Opening continuing calibrations were within method criteria.

CLOSING CONTINUING CALIBRATIONS:
Closing continuing calibrations were within method criteria or not applicable.

INTERNAL STANDARD AREAS:
There were no Internal Standard outliers.

SURROGATE RECOVERIES:
The method blank shown below has the surrogate outside of control windows. All associated samples have normal surrogate recoveries.

Sample	LabID	Surrogate	Recovery	LCL	UCL	
MB	T051109012-MB	p-Bromofluorobenzene	122	80	120	Complete

METHOD BLANK OUTLIERS:
There are no method blank outliers.

LCS OUTLIERS:
There are no LCS outliers.

There are no LCS outliers.

MS/MSD and DUP OUTLIERS:
There are no MS/MSD or DUP outliers.

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970-493-1418
Fax: 970-493-1418

Report Date: 11/18/2005
Receipt Date: 10/28/2005
Sample Date: 10/26/2005
Sample Time: 5:38:00PM
Collected By: MP

Client Sample ID: **KAFS20051026MWSW01**
Client Project: KAFS
Location:
Sample Matrix: Aqueous
COC #:
PWS#:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Sample Comment:

Lab#: A0510295-01A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
8021/5030B (Aqueous) - BTEX					*Test was conducted by: Analytica - Thornton*				
Benzene	100	ug/L	H	1.0	***5.0***	5030B	11/4/2005	11/4/2005	MB
Ethylbenzene	8.4	ug/L		1.0	***700***	5030B	11/4/2005	11/4/2005	MB
Toluene	1.6	ug/L		1.0	***1000***	5030B	11/4/2005	11/4/2005	MB
Xylenes, Total	20	ug/L		2.0	***10000***	5030B	11/4/2005	11/4/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**110**	% Recov		0.50		5030B	11/4/2005	11/4/2005	MB
AK101/5030B (Aqueous) - GRO					*Test was conducted by: Analytica - Thornton*				
Gasoline Range Organics	360	ug/L		100		5030B	11/4/2005	11/4/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**112**	% Recov		1.5		5030B	11/4/2005	11/4/2005	MB

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Report Date: 11/18/2005
Receipt Date: 10/28/2005
Sample Date: 10/26/2005
Sample Time: 6:10:00PM
Collected By: MP

Client Sample ID: **KAFS20051026MWSW02**
Client Project: KAFS
Location:
Sample Matrix: Aqueous
COC #:
PWS#:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Sample Comment:

Lab#: A0510295-02A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
8021/5030B (Aqueous) - BTEX					*Test was conducted by: Analytica - Thornton*				
Benzene	1.3	ug/L		1.0	***5.0***	5030B	11/8/2005	11/9/2005	MB
Ethylbenzene	<MRL	ug/L		1.0	***700***	5030B	11/8/2005	11/9/2005	MB
Toluene	<MRL	ug/L		1.0	***1000***	5030B	11/8/2005	11/9/2005	MB
Xylenes, Total	<MRL	ug/L		2.0	***10000***	5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**92.1**	% Recov		0.50		5030B	11/8/2005	11/9/2005	MB
AK101/5030B (Aqueous) - GRO					*Test was conducted by: Analytica - Thornton*				
Gasoline Range Organics	120	ug/L		100		5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**120**	% Recov		1.5		5030B	11/8/2005	11/9/2005	MB

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Report Date: 11/18/2005
Receipt Date: 10/28/2005
Sample Date: 10/26/2005
Sample Time: 6:40:00PM
Collected By: MP

Client Sample ID: **KAFS20051026MWSW03**
Client Project: KAFS
Location:
Sample Matrix: Aqueous
COC #:
PWS#:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Sample Comment:

Lab#: A0510295-03A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
8021/5030B (Aqueous) - BTEX					*Test was conducted by: Analytica - Thornton*				
Benzene	3900	ug/L	H	1,000	***5.0***	5030B	11/8/2005	11/9/2005	MB
Ethylbenzene	1500	ug/L	H	1,000	***700***	5030B	11/8/2005	11/9/2005	MB
Toluene	28000	ug/L	H	1,000	***1000***	5030B	11/8/2005	11/9/2005	MB
Xylenes, Total	9800	ug/L		2,000	***10000***	5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**118**	% Recov		500		5030B	11/8/2005	11/9/2005	MB
AK101/5030B (Aqueous) - GRO					*Test was conducted by: Analytica - Thornton*				
Gasoline Range Organics	130000	ug/L		100,000		5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**135**	% Recov		1,500		5030B	11/8/2005	11/9/2005	MB

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Report Date: 11/18/2005
Receipt Date: 10/28/2005
Sample Date: 10/26/2005
Sample Time: 7:00:00PM
Collected By: MP

Client Sample ID: **KAFS20051026MWSW04**
Client Project: KAFS
Location:
Sample Matrix: Aqueous
COC #:
PWS#:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Sample Comment:

Lab#: A0510295-04A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
8021/5030B (Aqueous) - BTEX					*Test was conducted by: Analytica - Thornton*				
Benzene	5.5	ug/L	H	5.0	***5.0***	5030B	11/8/2005	11/9/2005	MB
Ethylbenzene	<MRL	ug/L		5.0	***700***	5030B	11/8/2005	11/9/2005	MB
Toluene	9.9	ug/L		5.0	***1000***	5030B	11/8/2005	11/9/2005	MB
Xylenes, Total	13	ug/L		10	***10000***	5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**113**	% Recov		2.5		5030B	11/8/2005	11/9/2005	MB
AK101/5030B (Aqueous) - GRO					*Test was conducted by: Analytica - Thornton*				
Gasoline Range Organics	<MRL	ug/L		500		5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**133**	% Recov		7.5		5030B	11/8/2005	11/9/2005	MB

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Mark Prieksat
Attn: Mr. Mark Prieksat
2726 Holly Place
Fort Collins, CO 80526
970-493-1418
Fax: 970-493-1418

Report Date: 11/18/2005
Receipt Date: 10/28/2005
Sample Date: 10/26/2005
Sample Time: 7:25:00PM
Collected By: MP

Client Sample ID: **KAFS20051026MWSW05**
Client Project: KAFS
Location:
Sample Matrix: Aqueous
COC #:
PWS#:
Comments:

Flag Definitions:
MRL = Method Reporting Limit
MCL = Maximum Contaminant Limit
B = Present also in Method Blank
H = Exceeds Regulatory Limit
M = Matrix Interference
J = Estimated Value
D = Lost to Dilution
** = RL higher than MCL; target not detected

Sample Comment:

Lab#: A0510295-05A

Analysis Method / Parameter	Result	Units	Flags	MRL	MCL	Prep Method	Prep Date	Analysis Date	Analyst
8021/5030B (Aqueous) - BTEX					*Test was conducted by: Analytica - Thornton*				
Benzene	31	ug/L	H	5.0	***5.0***	5030B	11/8/2005	11/9/2005	MB
Ethylbenzene	11	ug/L		5.0	***700***	5030B	11/8/2005	11/9/2005	MB
Toluene	29	ug/L		5.0	***1000***	5030B	11/8/2005	11/9/2005	MB
Xylenes, Total	48	ug/L		10	***10000***	5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**111**	% Recov		2.5		5030B	11/8/2005	11/9/2005	MB
AK101/5030B (Aqueous) - GRO					*Test was conducted by: Analytica - Thornton*				
Gasoline Range Organics	<MRL	ug/L		500		5030B	11/8/2005	11/9/2005	MB
Surrogate Recoveries									
p-Bromofluorobenzene	**128**	% Recov		7.5		5030B	11/8/2005	11/9/2005	MB

Analytica International, Inc.
5761 Silverado Way, Unit N
Anchorage, AK 99518
Phone: 907-258-2155
Fax: 907-258-6634

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado
Workorder (SDG): A0510295
Project: KAFS
Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T051107012**

LCS/LCSD REPORT

Analysis: Aromatic VOCs by GC/PID via method 8021B - BTEX
MB: T051107012-MB
Prep Date: 11/4/2005
MB Anal. Date: 11/4/2005 9:43:00PM
Units: ug/L
LCS Anal. Date: 11/4/2005 6:56:00PM LCSD Anal. Date: 11/4/2005 7:29:00PM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Benzene	ND	11.5	11.3	10.0	10.0	115.0	113.0	1.8	80 - 120	20	
Toluene	ND	11.5	11.4	10.0	10.0	115.0	114.0	0.9	80 - 120	20	
Ethylbenzene	ND	11.4	11.4	10.0	10.0	114.0	114.0	0.0	80 - 120	20	
Xylenes, Total	ND	34.1	33.4	30.0	30.0	113.7	111.3	2.1	80 - 120	20	

Prep Batch: **T051109012**

LCS/LCSD REPORT

Analysis: Aromatic VOCs by GC/PID via method 8021B - BTEX
MB: T051109012-MB
Prep Date: 11/8/2005
MB Anal. Date: 11/8/2005 3:29:00PM
Units: ug/L
LCS Anal. Date: 11/8/2005 12:41:00PM LCSD Anal. Date: 11/8/2005 1:14:00PM Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Benzene	ND	10.5	9.03	10.0	10.0	105.0	90.3	15.1	80 - 120	20	
Toluene	ND	11.3	9.68	10.0	10.0	113.0	96.8	15.4	80 - 120	20	
Ethylbenzene	ND	10.5	9.47	10.0	10.0	105.0	94.7	10.3	80 - 120	20	
Xylenes, Total	ND	32.7	30.5	30.0	30.0	109.0	101.7	7.0	80 - 120	20	

Prep Batch: **T051107013**

LCS/LCSD REPORT

Analytica International, Inc.
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Anchorage, AK 99518
Phone: 907-258-2155
Fax: 907-258-6634

Tests Run at: Analytica Environmental Laboratories - Thornton, Colorado
Workorder (SDG): A0510295
Project: KAFS
Project Number:

QUALITY CONTROL REPORT

Prep Batch: **T051107013**

LCS/LCSD REPORT

Analysis: ADEC AK101 - GRO
MB: T051107013-MB
Prep Date: 11/4/2005
MB Anal. Date: 11/4/2005 9:43:00PM
Units: ug/L
LCS Anal. Date: 11/4/2005 8:03:00PM LCSD Anal. Date: 11/4/2005 8:36:00PM
Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Gasoline Range Organics	ND	505	553	500	500	101.0	110.6	9.1	74 - 110	20	highdup

Prep Batch: **T051109013**

LCS/LCSD REPORT

Analysis: ADEC AK101 - GRO
MB: T051109013-MB
Prep Date: 11/8/2005
MB Anal. Date: 11/8/2005 3:29:00PM
Units: ug/L
LCS Anal. Date: 11/8/2005 1:48:00PM LCSD Anal. Date: 11/8/2005 2:22:00PM
Matrix: Aqueous

Analyte Name	SampResult	LCSRes.	SDRes.	SPLev	SPDLev	Recov.	SD Recov	RPD	Recov Lim	RPDLim	Flag
Gasoline Range Organics	ND	479	478	500	500	95.8	95.6	0.2	74 - 110	20	

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.

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SURROGATE RECOVERY SUMMARY REPORT

Analytica International, Inc.
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Phone: 907-258-2155
Fax: 907-258-6634

Test Method: **ADEC AK101 - GRO**

Lab Sample #:	A0510295-01A	Dilution:	1
Analysis Date:	11/4/2005 10:17:00PM	Client Sample:	**KAFS20051026MWSW01**
Batch Number:	T051107013	Data File:	05110414.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	112	70	130		Complete

Lab Sample #:	A0510295-02A	Dilution:	1
Analysis Date:	11/9/2005 1:06:00AM	Client Sample:	**KAFS20051026MWSW02**
Batch Number:	T051109013	Data File:	05110830.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	120	70	130		Complete

Lab Sample #:	A0510295-04A	Dilution:	5
Analysis Date:	11/9/2005 1:40:00AM	Client Sample:	**KAFS20051026MWSW04**
Batch Number:	T051109013	Data File:	05110831.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	133	70	130	HIGH	Complete

Lab Sample #:	A0510295-03A	Dilution:	1,000
Analysis Date:	11/9/2005 2:13:00AM	Client Sample:	**KAFS20051026MWSW03**
Batch Number:	T051109013	Data File:	05110832.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	135	70	130	HIGH	Complete

Lab Sample #:	A0510295-05A	Dilution:	5
Analysis Date:	11/9/2005 2:47:00AM	Client Sample:	**KAFS20051026MWSW05**
Batch Number:	T051109013	Data File:	05110833.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	128	70	130		Complete

Lab Sample #:	T051107013-MB	Dilution:	1
Analysis Date:	11/4/2005 9:43:00PM	Client Sample:	**MB**
Batch Number:	T051107013	Data File:	05110413.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	117	70	130		Complete

Lab Sample #:	T051109013-MB	Dilution:	1
Analysis Date:	11/8/2005 3:29:00PM	Client Sample:	**MB**
Batch Number:	T051109013	Data File:	05110813.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	126	70	130		Complete

Lab Sample #:	T051107013-LCS	Dilution:	1
Analysis Date:	11/4/2005 8:03:00PM	Client Sample:	**LCS**
Batch Number:	T051107013	Data File:	05110410.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status

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Test Method: **ADEC AK101 - GRO**

Lab Sample #:	T051107013-LCS		Dilution:	1	
Analysis Date:	11/4/2005 8:03:00PM		Client Sample:	**LCS**	
Batch Number:	T051107013		Data File:	05110410.D	

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	113	70	130		Complete

Lab Sample #:	T051109013-LCS		Dilution:	1	
Analysis Date:	11/8/2005 1:48:00PM		Client Sample:	**LCS**	
Batch Number:	T051109013		Data File:	05110810.D	

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	129	70	130		Complete

Lab Sample #:	T051107013-LCSD		Dilution:	1	
Analysis Date:	11/4/2005 8:36:00PM		Client Sample:	**LCSD**	
Batch Number:	T051107013		Data File:	05110411.D	

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	116	70	130		Complete

Lab Sample #:	T051109013-LCSD		Dilution:	1	
Analysis Date:	11/8/2005 2:22:00PM		Client Sample:	**LCSD**	
Batch Number:	T051109013		Data File:	05110811.D	

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	127	70	130		Complete

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Test Method: **Aromatic VOCs by GC/PID via method 8021B - BTEX**

Lab Sample #: A0510295-01A | Dilution: 1
Analysis Date: 11/4/2005 10:17:00PM | Client Sample: **KAFS20051026MWSW01**
Batch Number: T051107012 | Data File: 05110414.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	110	80	120		Complete

Lab Sample #: A0510295-02A | Dilution: 1
Analysis Date: 11/9/2005 1:06:00AM | Client Sample: **KAFS20051026MWSW02**
Batch Number: T051109012 | Data File: 05110830.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	92	80	120		Complete

Lab Sample #: A0510295-04A | Dilution: 5
Analysis Date: 11/9/2005 1:40:00AM | Client Sample: **KAFS20051026MWSW04**
Batch Number: T051109012 | Data File: 05110831.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	113	80	120		Complete

Lab Sample #: A0510295-03A | Dilution: 1,000
Analysis Date: 11/9/2005 2:13:00AM | Client Sample: **KAFS20051026MWSW03**
Batch Number: T051109012 | Data File: 05110832.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	118	80	120		Complete

Lab Sample #: A0510295-05A | Dilution: 5
Analysis Date: 11/9/2005 2:47:00AM | Client Sample: **KAFS20051026MWSW05**
Batch Number: T051109012 | Data File: 05110833.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	111	80	120		Complete

Lab Sample #: T051107012-MB | Dilution: 1
Analysis Date: 11/4/2005 9:43:00PM | Client Sample: **MB**
Batch Number: T051107012 | Data File: 05110413.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	114	80	120		Complete

Lab Sample #: T051109012-MB | Dilution: 1
Analysis Date: 11/8/2005 3:29:00PM | Client Sample: **MB**
Batch Number: T051109012 | Data File: 05110813.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status
p-Bromofluorobenzene	122	80	120	HIGH	Complete

Lab Sample #: T051107012-LCS | Dilution: 1
Analysis Date: 11/4/2005 6:56:00PM | Client Sample: **LCS**
Batch Number: T051107012 | Data File: 05110408.D

AnalyteName	SSRecov	LCL	UCL	SSFlag	Result Status

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Test Method: **Aromatic VOCs by GC/PID via method 8021B - BTEX**

Lab Sample #:	T051107012-LCS		Dilution:	1	
Analysis Date:	11/4/2005 6:56:00PM		Client Sample:	**LCS**	
Batch Number:	T051107012		Data File:	05110408.D	
AnalyteName	**SSRecov**	**LCL**	**UCL**	**SSFlag**	**Result Status**
p-Bromofluorobenzene	116	80	120		Complete

Lab Sample #:	T051109012-LCS		Dilution:	1	
Analysis Date:	11/8/2005 12:41:00PM		Client Sample:	**LCS**	
Batch Number:	T051109012		Data File:	05110808.D	
AnalyteName	**SSRecov**	**LCL**	**UCL**	**SSFlag**	**Result Status**
p-Bromofluorobenzene	115	80	120		Complete

Lab Sample #:	T051107012-LCSD		Dilution:	1	
Analysis Date:	11/4/2005 7:29:00PM		Client Sample:	**LCSD**	
Batch Number:	T051107012		Data File:	05110409.D	
AnalyteName	**SSRecov**	**LCL**	**UCL**	**SSFlag**	**Result Status**
p-Bromofluorobenzene	114	80	120		Complete

Lab Sample #:	T051109012-LCSD		Dilution:	1	
Analysis Date:	11/8/2005 1:14:00PM		Client Sample:	**LCSD**	
Batch Number:	T051109012		Data File:	05110809.D	
AnalyteName	**SSRecov**	**LCL**	**UCL**	**SSFlag**	**Result Status**
p-Bromofluorobenzene	108	80	120		Complete

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QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **50,472** **Lab Project Number:** **A0510295**

Prep Date: 11/4/2005

Lab Method Blank Id: T051107012-MB
Prep Batch ID: T051107012
Method: Aromatic VOCs by GC/PID via method 8021B - BTEX

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

SampleNum	ClientSampleName	DataFile	AnalysisDate
T051107012-LCS	LCS	05110408.D	11/4/2005 6:56:00PM
T051107012-LCSD	LCSD	05110409.D	11/4/2005 7:29:00PM
A0510295-01A	KAFS20051026MWSW01	05110414.D	11/4/2005 10:17:00PM

Prep Date: 11/4/2005

Lab Method Blank Id: T051107013-MB
Prep Batch ID: T051107013
Method: ADEC AK101 - GRO

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

SampleNum	ClientSampleName	DataFile	AnalysisDate
A0510295-01A	KAFS20051026MWSW01	05110414.D	11/4/2005 10:17:00PM
T051107013-LCS	LCS	05110410.D	11/4/2005 8:03:00PM
T051107013-LCSD	LCSD	05110411.D	11/4/2005 8:36:00PM

Prep Date: 11/8/2005

Lab Method Blank Id: T051109012-MB
Prep Batch ID: T051109012
Method: Aromatic VOCs by GC/PID via method 8021B - BTEX

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

SampleNum	ClientSampleName	DataFile	AnalysisDate
T051109012-LCS	LCS	05110808.D	11/8/2005 12:41:00PM
T051109012-LCSD	LCSD	05110809.D	11/8/2005 1:14:00PM
A0510295-02A	KAFS20051026MWSW02	05110830.D	11/9/2005 1:06:00AM
A0510295-04A	KAFS20051026MWSW04	05110831.D	11/9/2005 1:40:00AM
A0510295-03A	KAFS20051026MWSW03	05110832.D	11/9/2005 2:13:00AM
A0510295-05A	KAFS20051026MWSW05	05110833.D	11/9/2005 2:47:00AM

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QC BATCH ASSOCIATIONS - BY METHOD BLANK

Lab Project ID: **50,472** **Lab Project Number:** **A0510295**

Prep Date: 11/8/2005

Lab Method Blank Id: T051109013-MB
Prep Batch ID: T051109013
Method: ADEC AK101 - GRO

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

SampleNum	ClientSampleName	DataFile	AnalysisDate
A0510295-05A	KAFS20051026MWSW05	05110833.D	11/9/2005 2:47:00AM
A0510295-03A	KAFS20051026MWSW03	05110832.D	11/9/2005 2:13:00AM
A0510295-04A	KAFS20051026MWSW04	05110831.D	11/9/2005 1:40:00AM
A0510295-02A	KAFS20051026MWSW02	05110830.D	11/9/2005 1:06:00AM
T051109013-LCS	LCS	05110810.D	11/8/2005 1:48:00PM
T051109013-LCSD	LCSD	05110811.D	11/8/2005 2:22:00PM

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REPORTING CONVENTIONS FOR THIS REPORT

A0510295

TestPkgName	Basis	# Sig Figs	Reporting Limit
8021/5030B (Aqueous) - BTEX	As Received	2	Report to PQL
AK101/5030B (Aqueous) - GRO	As Received	2	Report to PQL

Analytica Chain of Custody Form

ANALYTICA GROUP

5438 Shaune Drive, Juneau, AK 99801, (907) 780-6668, (907) 780-6670 fax
5761 Silverado Way. # N, Anchorage, AK 99518, (907) 258-2155, (907) 258-6634 fax
3330 Industrial Ave., Fairbanks, AK 99701, (907) 456-3116, (907) 456-3125 fax
12189 Pennsylvania St., Thornton, CO 80241, (303) 469-8868, (303) 469-5254 fax

Chain of Custody No: 48058

Client Name & Address:
Mark Prickett
2726 Holly Place
Fort Collins, CO 80526

Report to: Mark Prickett
Phone No: (970) 493-1418
Fax No: (970) 493-1418
E-mail: eight@ninepricksat@hotmail.com
Special Instructions/Comments: ⊗ All

Public Water System (PWS) ID#:

Project Name: KAFS

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

Requested Due Date for Results:

Section To be Completed by Analytica
Quote ID: Log: A05102 95
Account #: Cash: Credit Card:

Invoice to Name & Address:

P.O. or Contract No:

Kit Prep/Shipping Charge: $

Client Sample Identification / Location	Date Sampled	Time Sampled	Matrix (S-DW-WW-Other)	No. of Containers	Requested Analysis/Method: BTEX Lot #: Pres:	Lot #: Pres:	Lot #: Pres:	Lot #: Pres:	Lot #: Pres:	Lot #: Pres:	Lot #: Pres:	Field Preserved	Field Filtered	MS/MSD ?
KAFS20051026mwsw01	10/26/05	5:35pm	GW	3	X									
KAFS20051026mwsw02	10/26/05	6:10pm	GW	3	X									
KAFS20051026mwsw03	10/26/05	6:40pm	GW	3	X									
KAFS20051026mwsw04	10/26/05	7:00pm	GW	3	X									
KAFS20051026mwsw05	10/26/05	7:25pm	GW	3	X									

Relinquished by:	Date	Time	Received by:	Date	Time
[signature]	10/27/05	8:21	D Wheeler	10/28	921
Relinquished by:	Date	Time	Received by:	Date	Time
D Wheeler	10/31	12pm			
Relinquished by:	Date	Time	Received by:	Date	Time

Name of Sampler: (printed)

Section To Be Completed by Analytica

	THO	ANC	JNU	FBKS
Condition of Custody Seal?:		NP		
Initialed By:		BD		
Temp/Loc:		4		
Thermo ID#:		2.4		
Shipped Via:		Client		

Version 2.0

ANALYTICA

Cooler Receipt Form

Client: Mark **Client Code:** 701326 **Order #:** A0510295
Project: Mark

Cooler ID: 1

A. Preliminary Examination Phase: **Date cooler opened:** 10/28/2005
Cooler opened by: dw **Signature:** DW

1. **Was airbill Attached?** No **Airbill #:** **Carrier Name:** Client
2. **Custody Seals?** No **How many?** **Location:** **Seal Name:**
3. **Seals intact?** N/A
4. **COC Attached?** Yes **Properly Completed?** Yes **Signed by AEL employee?** Yes
5. **Project Identification from custody paper:** KAFS
6. **Preservative:** BlueGel **Temperature:** 2.4

Designated person initial here to acknowledge receipt: _____ **Date:** 10/28/05

COMMENTS:

B. Log-In Phase: **Samples Log-in Date:** 10/28/2005 **Log-in By:** dw

1. **Packing Type:** Bubblewrap
2. **Were samples in separate bags?** Yes
3. **Were containers intact?** Yes **Labels agree with COC?** Yes
4. **Number of bottles received:** 15 **Number of samples received:** 5
5. **Correct containers used?** Yes **Correct preservatives added?** Yes
6. **Sufficient sample volume?** Yes
7. **Bubbles in VOA samples?** No
8. **Was Project manager called and status discussed?** No
9. **Was anyone called?** No **Who was called?** _____ **By whom?** _____ **Date:** _____

COMMENTS: