EDB

ALS Environmental

02-Jun-2011

Lance Steere
ALS Laboratory Group
225 Commerce Drive
Fort Collins, CO 80524

Tel: (800) 443-1511
Fax: (970) 490-1522

Re: KAFB-BFF

Work Order: **1105535**

Dear Lance,

ALS Environmental received 3 samples on 17-May-2011 09:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 10.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

Chris Bryson

Electronically approved by: Makenzie L. Henderson

Chris Bryson
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac

Certificate No: T104704231-09A-TX

ALS Environmental

Date: 02-Jun-11

Client: ALS Laboratory Group
Project: KAFB-BFF
Work Order: **1105535**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1105535-01	106062-C	Water		5/10/2011 13:14	5/17/2011 09:20	
1105535-02	106064-C	Water		5/11/2011 10:10	5/17/2011 09:20	
1105535-03	10677-C	Water		5/11/2011 15:04	5/17/2011 09:20	

ALS Environmental

Date: *02-Jun-11*

Client: ALS Laboratory Group
Project: KAFB-BFF
Sample ID: 106062-C
Collection Date: 5/10/2011 01:14 PM

Work Order: 1105535
Lab ID: 1105535-01
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
EDB-DBCP			**SW8011**		Prep Date: **5/18/2011**	Analyst: **RLK**
1,2,3-Trichloropropane	ND		0.017	µg/L	1	5/20/2011 09:17 PM
1,2-Dibromo-3-chloropropane	ND		0.017	µg/L	1	5/20/2011 09:17 PM
1,2-Dibromoethane	ND		0.017	µg/L	1	5/20/2011 09:17 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *02-Jun-11*

Client: ALS Laboratory Group
Project: KAFB-BFF
Sample ID: 106064-C
Collection Date: 5/11/2011 10:10 AM

Work Order: 1105535
Lab ID: 1105535-02
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
EDB-DBCP			**SW8011**		Prep Date: **5/18/2011**	Analyst: **RLK**
1,2,3-Trichloropropane	ND		0.082	µg/L	5	5/23/2011 02:19 PM
1,2-Dibromo-3-chloropropane	ND		0.082	µg/L	5	5/23/2011 02:19 PM
1,2-Dibromoethane	**1.3**		**0.082**	**µg/L**	5	5/23/2011 02:19 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *02-Jun-11*

Client: ALS Laboratory Group
Project: KAFB-BFF
Sample ID: 10677-C
Collection Date: 5/11/2011 03:04 PM

Work Order: 1105535
Lab ID: 1105535-03
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
EDB-DBCP			**SW8011**		Prep Date: **5/18/2011**	Analyst: **RLK**
1,2,3-Trichloropropane	ND		0.016	µg/L	1	5/20/2011 09:55 PM
1,2-Dibromo-3-chloropropane	ND		0.016	µg/L	1	5/20/2011 09:55 PM
1,2-Dibromoethane	ND		0.016	µg/L	1	5/20/2011 09:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 02-Jun-11

Client: ALS Laboratory Group
Work Order: 1105535
Project: KAFB-BFF

QC BATCH REPORT

Batch ID: **52507** Instrument ID **ECD_9** Method: **SW8011**

MBLK Sample ID: **EBLKW1-110518-52507** Units: **µg/L** Analysis Date: **5/20/2011 07:42 PM**

Client ID: Run ID: **ECD_9_110520A** SeqNo: **2397154** Prep Date: **5/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,3-Trichloropropane	ND	0.020								
1,2-Dibromo-3-chloropropane	ND	0.020								
1,2-Dibromoethane	ND	0.020								

LCS Sample ID: **ELLCSW1-110518-52507** Units: **µg/L** Analysis Date: **5/20/2011 08:01 PM**

Client ID: Run ID: **ECD_9_110520A** SeqNo: **2397175** Prep Date: **5/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,3-Trichloropropane	0.2034	0.020	0.2	0	102	60-140	0			
1,2-Dibromo-3-chloropropane	0.1998	0.020	0.2	0	99.9	60-140	0			
1,2-Dibromoethane	0.1807	0.020	0.2	0	90.4	60-140	0			

LCSD Sample ID: **ELLCSDW1-110518-52507** Units: **µg/L** Analysis Date: **5/20/2011 08:20 PM**

Client ID: Run ID: **ECD_9_110520A** SeqNo: **2397176** Prep Date: **5/18/2011** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,3-Trichloropropane	0.2014	0.020	0.2	0	101	60-140	0.2034	1	20	
1,2-Dibromo-3-chloropropane	0.1988	0.020	0.2	0	99.4	60-140	0.1998	0.492	20	
1,2-Dibromoethane	0.1823	0.020	0.2	0	91.1	60-140	0.1807	0.858	20	

The following samples were analyzed in this batch: 1105535-01A 1105535-02A 1105535-03A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 02-Jun-11

Client: ALS Laboratory Group
Project: KAFB-BFF
WorkOrder: **1105535**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
µg/L	Micrograms per Liter

ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524

TF: (800) 443-1511 w PH: (970) 490-1511 w FX: (970) 490-1522

Chain-of-Custody

LAB ID			
DATE	5/12/2011	PAGE	of
TURNAROUND	2 week	DISPOSAL	By Lab

PROJECT NAME	KAFB-BFF	E-MAIL	lance.steere@alsglobal.com
PROJECT No.		PHONE	970-490-1511
REPORT TO	Lance Steere	FAX	
COMPANY	ALS Ft. Collins		
ADDRESS	see above		

1105535

ALS CO: ALS Laboratory Group

Project: KAFB-BFF

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Btls	QC	EDB, method 8011
	106062-C	Water	05/10/2011	1314	3		X
	106064-C	Water	05/11/2011	1010	3		X
	10677-C	Water	05/11/2011	1504	3		X

COMMENTS: Ft Collins WO 1105144, 167

Level 2 w/ QC + edd

Please report 106062-C separately

	SIGNATURE	PRINTED NAME	DATE	TIME	COMPANY
Relinquished By	[signature]	Lauren Schmitz	5/16/2011	1210	ALS
Received By	[signature]	P-Giga	5/17/11	0920	ALS.
Relinquished By					
Received By					

ALS Environmental

Sample Receipt Checklist

Client Name: **ALS CO** Date/Time Received: **17-May-11 09:20**

Work Order: **1105535** Received by: **PMG**

Checklist completed by Raymond N Gamboa (eSignature) 17-May-11 (Date) Reviewed by: R. Kevin Given (eSignature) 18-May-11 (Date)

Matrices: Water
Carrier name: FedEx

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☑	☐	☐
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	

Temperature(s)/Thermometer(s): 1.8c 002

Cooler(s)/Kit(s):

	Yes	No		
Water - VOA vials have zero headspace?	☑	☐	No VOA vials submitted	☐
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by:

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

1105835

CUSTODY SEAL

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES
225 Commerce Drive
Fort Collins, CO 80524
970-490-15 11

Signature

Date 5/16/11 5-17.11

ORIGIN ID: FTCA (970) 490-1511
SAMPLE CONTROL
ALS LABORATORY GROUP
225 COMMERCE DRIVE

FORT COLLINS, CO 80524
UNITED STATES US

SHIP DATE: 16MAY11
ACTWGT: 8.6 LB
CAD: 0089477/CAFE2472
DIMS: 13x10x10 IN

BILL THIRD PARTY

TO JAYLYNN THIBAULT
ALS HOUSTON
10450 STANCLIFF RD

HOUSTON TX 77099

REF: 6710-ENV-FC-LB-00

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05.17

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Express

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TUE - 17 MAY A2
PRIORITY OVERNIGHT

TRK# 0201 6194 3075 0263

AB SGRA

77099
TX-US
IAH

Part # 156148-434 RIT2 05/10

506C1/1577/DA47