



01-Nov-2012

Amy Wolf
ALS Laboratory Group
225 Commerce Drive
Fort Collins, CO 80524

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

Re: KAFB BFF Q4 WOA

Work Order: **12101124**

Dear Amy,

ALS Environmental received 2 samples on 30-Oct-2012 09:10 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,

Electronically approved by: Luke F. Hernandez

Sonia West
Project Manager



Certificate No: T104704231-09A-TX

ADDRESS 10450 Stancliff Rd, Suite 210 Houston, Texas 77099-4338 | PHONE (281) 530-5656 | FAX (281) 530-5887

DOV#T UR X S#K VD /#F R US#Sdu#r i#k h#D OV#Dde r u d r u | #T ur x s #D #F dp se h a#E ur k h u r #O p l e h g #F r p s d g |



RIGHT SOLUTIONS RIGHT PARTNER

Client: ALS Laboratory Group
Project: KAFB BFF Q4 WOA
Work Order: 12101124

Work Order Sample Summary

| <u>Lab Samp ID</u> | <u>Client Sample ID</u> | <u>Matrix</u> | <u>Tag Number</u> | <u>Collection Date</u> | <u>Date Received</u> | <u>Hold</u> |
|--------------------|-------------------------|---------------|-------------------|------------------------|----------------------|--------------------------|
| 12101124-01 | 106209B | Water | | 10/29/2012 11:49 | 10/30/2012 09:10 | <input type="checkbox"/> |
| 12101124-02 | 106208B | Water | | 10/29/2012 14:35 | 10/30/2012 09:10 | <input type="checkbox"/> |

ALS Environmental

Date: 01-Nov-12

Client: ALS Laboratory Group

Project: KAFB BFF Q4 WOA

Work Order: 12101124

Case Narrative

No exceptions.

ALS Environmental

Date: 01-Nov-12

Client: ALS Laboratory Group
Project: KAFB BFF Q4 WOA
Sample ID: 106209B
Collection Date: 10/29/2012 11:49 AM

Work Order: 12101124
Lab ID: 12101124-01
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------------|--------|------|------------------------|-------|-----------------------------------|--|
| EDB-DBCP 1,2-Dibromoethane | ND | | SW8011 0.018 | µg/L | Prep Date: 10/31/2012 1 | Analyst: JLJ 10/31/2012 12:05 PM |

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

ALS Environmental

Date: 01-Nov-12

Client: ALS Laboratory Group
Project: KAFB BFF Q4 WOA
Sample ID: 106208B
Collection Date: 10/29/2012 02:35 PM

Work Order: 12101124
Lab ID: 12101124-02
Matrix: WATER

| Analyses | Result | Qual | Report Limit | Units | Dilution Factor | Date Analyzed |
|--------------------------------------|--------|------|------------------------|-------|-----------------------------------|--|
| EDB-DBCP 1,2-Dibromoethane | ND | | SW8011 0.019 | µg/L | Prep Date: 10/31/2012 1 | Analyst: JLJ 10/31/2012 12:29 PM |

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

ALS Environmental

Date: 01-Nov-12

Client: ALS Laboratory Group
Work Order: 12101124
Project: KAFB BFF Q4 WOA

QC BATCH REPORT

Batch ID: **65437** Instrument ID **ECD_9** Method: **SW8011**

| MBLK | | Sample ID: EBLKW1-121031-65437 | | | Units: µg/L | | Analysis Date: 10/31/2012 10:53 AM | | | |
|-------------------|--------|---------------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ECD_9_121031A | | | SeqNo: 3002333 | | Prep Date: 10/31/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2-Dibromoethane | ND | 0.020 | | | | | | | | |

| LCS | | Sample ID: ELCSW1-121031-65437 | | | Units: µg/L | | Analysis Date: 10/31/2012 11:18 AM | | | |
|-------------------|--------|---------------------------------------|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ECD_9_121031A | | | SeqNo: 3002334 | | Prep Date: 10/31/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2-Dibromoethane | 0.2423 | 0.020 | 0.2 | 0 | 121 | 60-140 | 0 | | | |

| LCSD | | Sample ID: ELCSDW1-121031-65437 | | | Units: µg/L | | Analysis Date: 10/31/2012 11:41 AM | | | |
|-------------------|--------|--|---------|---------------|-----------------------|---------------|---|------|--------------|------|
| Client ID: | | Run ID: ECD_9_121031A | | | SeqNo: 3002335 | | Prep Date: 10/31/2012 | | DF: 1 | |
| Analyte | Result | PQL | SPK Val | SPK Ref Value | %REC | Control Limit | RPD Ref Value | %RPD | RPD Limit | Qual |
| 1,2-Dibromoethane | 0.2487 | 0.020 | 0.2 | 0 | 124 | 60-140 | 0.2423 | 2.62 | 20 | |

The following samples were analyzed in this batch:

| | |
|--------------|--------------|
| 12101124-01A | 12101124-02A |
|--------------|--------------|

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

Client: ALS Laboratory Group
Project: KAFB BFF Q4 WOA
WorkOrder: 12101124

**QUALIFIERS,
ACRONYMS, UNITS**

| <u>Qualifier</u> | <u>Description</u> |
|------------------|---|
| * | 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 |

| <u>Acronym</u> | <u>Description</u> |
|----------------|-------------------------------------|
| 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 |

| <u>Units Reported</u> | <u>Description</u> |
|-----------------------|----------------------|
| µg/L | Micrograms per Liter |

Sample Receipt Checklist

Client Name: **ALS CO**

Date/Time Received: **30-Oct-12 09:10**

Work Order: **12101124**

Received by: **PMG**

Checklist completed by *Parash M. Giga*
eSignature

30-Oct-12
Date

Reviewed by: _____
eSignature

Date

Matrices: Water

Carrier name: FedEx

| | | | |
|---|---|-----------------------------|---|
| Shipping container/cooler in good condition? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on shipping container/cooler? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | Not Present <input type="checkbox"/> |
| Custody seals intact on sample bottles? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | Not Present <input checked="" type="checkbox"/> |
| Chain of custody present? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody signed when relinquished and received? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Chain of custody agrees with sample labels? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Samples in proper container/bottle? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sample containers intact? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Sufficient sample volume for indicated test? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| All samples received within holding time? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Container/Temp Blank temperature in compliance? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | |
| Temperature(s)/Thermometer(s): | <u>2.6c C/U</u> | | <u>005</u> |
| Cooler(s)/Kit(s): | <u>Sml R/W</u> | | |
| Date/Time sample(s) sent to storage: | <u>10/30/12 10:50</u> | | |
| Water - VOA vials have zero headspace? | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> | No VOA vials submitted <input type="checkbox"/> |
| Water - pH acceptable upon receipt? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted? | Yes <input type="checkbox"/> | No <input type="checkbox"/> | N/A <input checked="" type="checkbox"/> |
| pH adjusted by: | <u>_____</u> | | |

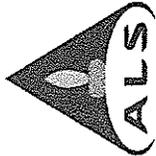
Login Notes:

Client Contacted: _____ Date Contacted: _____ Person Contacted: _____

Contacted By: _____ Regarding: _____

Comments:

CorrectiveAction:



ALS Laboratory Group

225 Commerce Drive, Fort Collins, Colorado 80524
TF: (800) 443-1511 PH: (970) 490-1511 FX: (970) 490-1522

Chain-of-Custody

Form 2021b

| | | |
|-------------|----------------------------|----|
| WORKORDER # | PAGE | of |
| | | 1 |
| DISPOSAL | By Lab or Return to Client | |

12101124

ALS CO: ALS Laboratory Group

Project: KAFB BFF Q4



| PROJECT NAME | SAMPLER | DATE | TURNAROUND | DATE | PRINTED NAME | DATE | TIME |
|--------------------|-------------|----------|-------------|-------------|--------------|-------|----------|
| KAFB BFF Q4 | Salem | 10/29/12 | 48 Hours | | Brian Sel | 17:30 | 10-29-12 |
| PROJECT No. | KAFB BFF | | | | P. C. Sel | 0910 | 10-30-12 |
| COMPANY NAME | NAMEO / HWB | | | | | | |
| SEND REPORT TO | Pure Carbon | | | | | | |
| ADDRESS | | | | | | | |
| CITY / STATE / ZIP | | | | | | | |
| PHONE | | | | | | | |
| FAX | | | | | | | |
| E-MAIL | | | | | | | |
| Lab ID | Field ID | Matrix | Sample Date | Sample Time | # Bottles | Pres. | QC |
| | 106209B | W | 10-29-12 | 11:49 | 3 | 1 | X |
| | 106208B | W | 10-29-12 | 14:35 | 3 | | X |

*Time Zone (Circle): EST CST MST PST Matrix: O = oil S = soil NS = non-soil solid W = water L = liquid E = extract F = filler

For metals or anions, please detail analytes below.

Comments:

| | | | | |
|-----------------|-----------|--------------|------|------|
| RELINQUISHED BY | SIGNATURE | PRINTED NAME | DATE | TIME |
| RECEIVED BY | | | | |
| RELINQUISHED BY | | | | |
| RECEIVED BY | | | | |
| RELINQUISHED BY | | | | |
| RECEIVED BY | | | | |

QC PACKAGE (check below)

| | |
|--------------------------------------|--|
| LEVEL II (Standard QC) | |
| LEVEL III (Std QC + forms) | |
| LEVEL IV (Std QC + forms + raw data) | |

Preservative Key: 1-HCl 2-HNO3 3-H2SO4 4-NaOH 5-NaHSO4 7-Other 8-4 degrees C 9-5035



Internal Billing Reference

Company: **AL5 Lab**
 Name: **Hector Coronado**
 Phone: **281 530-5656**

Address: **10450 Stanchfield Rd**
 Dept./Floor/Suite/Room: **5th Fl 210**
 State: **TX** ZIP: **77099**

Address: **5800 Spaworth Rd NE**
 Dept./Floor/Suite/Room: **RM 77107**
 State: **ALB** ZIP: **97107**

Company: **MAED/HWB**
 Name: **SID BARNWELL**
 Phone: **505 222-7524**

Address: **110-26-72**

FedEx NEW Package
 Tracking Number: **8000 3592 2360**
 Express **US Airbill**

4 Express Package Service * To most locations. ** Packages up to 150 lbs. for packages over 50 lbs, use the new FedEx Express Freight US Airbill.

Next Business Day
 FedEx First Overnight: Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Priority Overnight: Next business morning. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Standard Overnight: Next business afternoon. Saturday Delivery NOT available.
 FedEx 2Day: Second business morning. Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
 FedEx Express Saver: Third business day. Saturday Delivery NOT available.

5 Packaging * Declared value limit \$500

FedEx Envelope* FedEx Pak* FedEx Box FedEx Tube Other

6 Special Handling and Delivery Signature Options

SATURDAY Delivery: NOT available for FedEx Overnight, FedEx 2Day A.M., or FedEx Express Saver.
 No Signature Required: Package may be left without obtaining a signature for delivery. Direct Signature: Someone at recipient's address may sign for delivery. **Free applies.** Indirect Signature: If no signature at recipient's address may sign for delivery. **Free applies.**

7 Payment Bill to: No Yes Yes No

8 Recipient's Copy **0200**

Our liability is limited to \$100 unless you declare a higher value. See the current FedEx Service Guide for details.

Total Packages: **1** Total Weight: **0.00** lbs Total Declared Value: **0.00**

Sender: No in Section Recipient Third Party Credit Card Cash/Check

Enter FedEx Account No. or Credit Card No. below: **0200**

Obtain receipt: Direct Signature Indirect Signature Signature Required No Signature Required

Does this shipment contain dangerous goods?
 Yes No Yes No

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging or placed in a FedEx Express Drop Box.

Shipper's Declaration: not required required

Yes No Yes No

Residential deliveries only. **Free applies.**

RA

Signature: *[Signature]*
Date: *[Date]*

Signature: *[Signature]*
Date: *[Date]*

CUSTOMER SEAL

ENVIRONMENTAL SAMPLING SUPPLY

9601 San Leandro St. Oakland, CA 94612-3333

Signature: *[Signature]*
Date: *[Date]*

Signature: *[Signature]*
Date: *[Date]*

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