Inorganics

Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF 1Q12

Work Order Number: 1201329

1. This report consists of 3 water samples.

2. The samples were received cool and intact by ALS on 01/27/12.

3. The samples had been correctly preserved for the requested analyses.

4. The samples were prepared for analysis based on Methods for the Chemical Analysis of Waters and Wastes (MCAWW), May 1994 procedures and Environmental Monitoring Systems Laboratory (EMSL) Rev 2.1 procedures.

5. The samples were analyzed following MCAWW and EMSL procedures for the following methods:

Analyte	Method	SOP #
Alkalinity	310.1	1106 Rev 10
Bicarbonate	310.1	1106 Rev 10
Carbonate	310.1	1106 Rev 10
Ammonia as N	350.1	1129 Rev 7
Nitrate/nitrite as N	353.2 Revision 2.0	1127 Rev 8
Sulfide	376.1	1120 Rev 7
Bromide	300.0 Revision 2.1	1113 Rev 12
Chloride	300.0 Revision 2.1	1113 Rev 12
Fluoride	300.0 Revision 2.1	1113 Rev 12
Sulfate	300.0 Revision 2.1	1113 Rev 12

6. All standards and solutions were used within their recommended shelf life.

7. The samples were prepared and analyzed within the established hold time for each analysis.

All in house quality control procedures were followed, as described below.

8. General quality control procedures.

- A preparation (method) blank and laboratory control sample (LCS) were prepared and analyzed with the samples in each preparation batch. There were not more than 20 samples in each preparation batch.
- The method blank associated with each batch was below the reporting limit for the requested analytes. This indicates that no contaminants were introduced to the samples during preparation and analysis.
- The LCS was within the acceptance limits for each analysis.
- All initial and continuing calibration blanks (ICB/CCB) associated with each applicable analytical batch were below the reporting limit for the requested analytes.
- All initial and continuing calibration verifications (ICV/CCV) associated with each applicable analytical batch were within the acceptance criteria for the requested analytes. This indicates a valid calibration and stable instrument conditions.

9. Matrix specific quality control procedures.

Sample 1201329-8 was designated as the quality control sample for the sulfide analysis. Per method requirements, matrix QC was performed for the remaining analyses. Since a sample from this order number was not the selected quality control (QC) sample, matrix specific QC results are not included in this report.

Similarity of matrix and therefore relevance of the QC results should not be automatically inferred for any sample other than the native sample selected for QC.

- A sample duplicate was prepared and analyzed with the sulfide batch. All guidance criteria for precision were met.

10. Reduced aliquots were taken of the sample for the alkalinity, bicarbonate, and carbonate analysis. Reporting limits were elevated accordingly.

11. Manual integrations are performed when needed to provide consistent and defensible data following the guidelines in SOP 939 Revision 4.

The data contained in the following report have been reviewed and approved by the personnel listed below. In addition, ALS certifies that the analyses reported herein are true, complete and correct within the limits of the methods employed.

Megan Johnson
Inorganics Primary Data Reviewer

2/21/12
Date

Inorganics Final Data Reviewer

2/21/12
Date

Inorganic Data Reporting Qualifiers

The following qualifiers are used by the laboratory when reporting results of inorganic analyses.

- Concentration qualifier -- If the analyte was analyzed for but not detected a “U” is entered.
- QC qualifier -- Specified entries and their meanings are as follows:

  N - Spiked sample recovery not within control limits.

  * - Duplicate analysis (relative percent difference) not within control limits.

  Z - Calibration spike recovery not within control limits.

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1201329
Client Name: NMED Hazardous Waste Bureau
Client Project Name: KAFB - BFF 1Q12
Client Project Number:
Client PO Number: 20-667-00-16004

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
106088-A	1201329-1		WATER	26-Jan-12	9:39
106088-B	1201329-2		WATER	26-Jan-12	9:41
106088-C	1201329-3		WATER	26-Jan-12	9:46
106088-D	1201329-4		WATER	26-Jan-12	9:47
106088-E	1201329-5		WATER	26-Jan-12	9:49
106088-F	1201329-6		WATER	26-Jan-12	9:51
106088-G	1201329-7		WATER	26-Jan-12	9:52
106088-H	1201329-8		WATER	26-Jan-12	9:53
106088-I	1201329-9		WATER	26-Jan-12	9:55
106088-J	1201329-10		WATER	26-Jan-12	9:59

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 202r8

WORKORDER #	1201329		
PAGE	1 of 1		
DISPOSAL	By Lab or Return to Client		

PROJECT NAME	KAFB BFF 10/12	SAMPLER	BLS
PROJECT No.		SITE ID	106088
		EDD FORMAT	
		PURCHASE ORDER	
COMPANY NAME	NMED	BILL TO COMPANY	NMED / HWB
SEND REPORT TO	Brian Salem	INVOICE ATTN TO	Dave Cobrain
ADDRESS	5500 San Antonio NE	ADDRESS	2905 Rodeo Park Dr
CITY / STATE / ZIP	ABQ, NM 87109	CITY / STATE / ZIP	Santa Fe, NM 87505
PHONE	505-222-0576	PHONE	505-476-6055
FAX		FAX	
E-MAIL		E-MAIL	

DATE	1-26-12
TURNAROUND	Normal

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	VOC 8260	EDB 8011	G-RO 8015	PAH 8270	DRO 8015	Anions, Alk 310.1	NH3 (Nitrate, Nitrite) 350.3, 353.3	Sulfate 375.1	Tot. Met. 6010 IAL	Diss. Met. 6010, Fe+Mn only
1	106088-A	W	1-26-12	9:39	3	HCl		X									
2	106088-B	↓	↓	9:41	3	HCl			X								
3	106088-C			9:46	3	HCl				X							
4	106088-D			9:47	1	—					X						
5	106088-E			9:49	1	H_2SO_4						X					
6	106088-F			9:51	1	—							X				
7	106088-G			9:52	1	H_2SO_4								X			
8	106088-H			9:53	1	Zn/NaOH									X		
9	106088-I			9:55	1	HNO_3										X	
10	106088-J			9:57	1	HNO_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 = filter

For metals or anions, please detail analytes below.

Comments:

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

	SIGNATURE	PRINTED NAME	DATE	TIME
RELINQUISHED BY	Brian Salem	Brian Salem	1-26-12	13:30
RECEIVED BY	C Trimble	C Trimble	1-27-12	0910
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1201329

Project Manager: LS Initials: CDT Date: 1-27-12

1.	Does this project require any **special handling** in addition to standard Paragon procedures?		YES	(NO)
2.	Are custody **seals** on **shipping containers** intact?	NONE	(YES)	NO
3.	Are Custody seals on **sample containers** intact?	(NONE)	YES	NO
4.	Is there a **COC (Chain-of-Custody) present** or other representative documents?		(YES)	NO
5.	Are the **COC and bottle labels complete and legible**?		(YES)	NO
6.	Is the **COC in agreement** with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)	CDT 1-27-12	~~YES~~	(NO)
7.	Were **airbills / shipping documents** present and/or removable?	DROP OFF	(YES)	NO
8.	Are all **aqueous samples requiring preservation preserved correctly? (excluding volatiles)**	N/A	(YES)	NO
9.	Are all aqueous **non-preserved samples pH 4-9**?	N/A	(YES)	NO
10.	Is there **sufficient sample** for the requested analyses?		(YES)	NO
11.	Were all samples placed in the **proper containers** for the requested analyses?		(YES)	NO
12.	Are all samples within **holding times** for the requested analyses?		(YES)	NO
13.	Were all sample containers received **intact**? (not broken or leaking, etc.)		(YES)	NO
14.	Are all samples requiring **no** headspace (**VOC, GRO, RSK/MEE, Rx CN/S, radon**) headspace free? **Size of bubble**: ____ < green pea ____ > green pea	N/A	(YES)	NO
15.	Do perchlorate LCMS-MS samples **have** headspace? (at least 1/3 of container required)	(N/A)	YES	NO
16.	Were samples checked for and free from the presence of **residual chlorine?** (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	(N/A)	YES	NO
17.	Were the samples **shipped on ice**?		(YES)	NO
18.	Were cooler temperatures measured at 0.1-6.0°C? **IR gun used*: #2 (#4)**	RAD ONLY	(YES)	NO

Cooler #:	1							
Temperature (°C):	3.0							
No. of custody seals on cooler:	2							
DOT Survey/ Acceptance Information — External µR/hr reading:	14							
Background µR/hr reading:	13							

Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? (YES) NO / NA (If no, see Form 008.)

Additional Information: PROVIDE DETAILS BELOW FOR A NO RESPONSE TO ANY QUESTION ABOVE, EXCEPT #1 AND #16.

Sample 8 listed analysis as Sulfate, however preservative is Zn/NaOH

Typo... its really for Sulfide.

If applicable, was the client contacted? (YES) / NO / NA Contact: Brian Salem Date/Time: 1/27

Project Manager Signature / Date: 1/27/12

*IR Gun #2: Oakton, SN 29922500201-0066 *IR Gun #4: Oakton, SN 2372220101-0002

Form 201r22.xls (6/1/09)

30 14 14

1201329

FedEx Express **NEW Package US Airbill**

FedEx Tracking Number 8768 4049 9123

0200 Form ID No.

FedEx Retrieval Copy

1 From

Date 1/26/12 Sender's FedEx Account Number

Sender's Name Brian Salem Phone 505 222-9576

Company NMEP / HWB

Address 5500 San Antonio NE

Dept./Floor/Suite/Room

City Albuquerque State NM ZIP 87109

2 Your Internal Billing Reference

3 To

Recipient's Name Lance Steere Phone 970 490-1511

Company ALS Labs

Address 225 Commerce Dr.

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept./Floor/Suite/Room

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Ft. Collins State CO ZIP 80524-2762

01 ☐ HOLD Weekday FedEx location address REQUIRED. **NOT available for** FedEx First Overnight.

31 ☐ HOLD Saturday FedEx location address REQUIRED. **Available ONLY for** FedEx Priority Overnight and FedEx 2Day to select locations.

8768 4049 9123

4 Express Package Service * To most locations.

NOTE: Service order has changed. Please select carefully.

Packages up to 150 lbs. For packages over 150 lbs., use the new FedEx Express Freight US Airbill.

14

Next Business Day

06 ☐ FedEx First Overnight — Earliest next business morning delivery to select locations. Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

01 ☒ FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

05 ☐ FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.

2 or 3 Business Days

49 ☐ **NEW** FedEx 2Day A.M. — Second business morning.* Saturday Delivery NOT available.

03 ☐ FedEx 2Day — Second business morning.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

20 ☐ FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

2-

5 Packaging * Declared value limit $500.

06 ☐ FedEx Envelope* 02 ☐ FedEx Pak* 03 ☐ FedEx Box 04 ☐ FedEx Tube 01 ☒ Other

3.00

6 Special Handling and Delivery Signature Options

03 ☐ **SATURDAY DELIVERY**

☐ No Signature Required — Package may be left without obtaining a signature for delivery.

10 ☐ Direct Signature — Someone at recipient's address may sign for delivery. *Fee applies.*

34 ☐ Indirect Signature — If no one is available at recipient's address, someone at a neighboring address may sign for delivery. For residential deliveries only. *Fee applies.*

Does this shipment contain dangerous goods?

One box must be checked.

☒ No 04 ☐ Yes — As per attached Shipper's Declaration. ☐ Yes — Shipper's Declaration not required. 06 ☐ Dry Ice — Dry ice, 9, UN 1845 ____ x ____ kg

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

☐ Cargo Aircraft Only

7 Payment *Bill to:*

Enter FedEx Acct. No. or Credit Card No. below. Obtain recip. Acct. No. ☐

1 ☐ Sender — Acct. No. in Section 1 will be billed. 2 ☒ Recipient 3 ☐ Third Party 4 ☐ Credit Card 5 ☐ Cash/Check

[redacted]

Total Packages 1 Total Weight 51 lbs. [redacted] Credit Card Auth.

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

612

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BICARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1201329
Reporting Basis: As Received
Prep Method: NONE
Analyst: Jason McNall

Final Volume: 100 ml
Matrix: WATER
Result Units: MG/L

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106088-F	1201329-6	01/26/2012	02/01/2012	02/01/2012	N/A	1	140	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

CARBONATE AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1201329 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106088-F	1201329-6	01/26/2012	02/01/2012	02/01/2012	N/A	1	20	20	U	25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Client Name: NMED Hazardous Waste Bureau
Client Project ID: KAFB - BFF 1Q12
Work Order Number: 1201329 **Final Volume:** 100 ml
Reporting Basis: As Received **Matrix:** WATER
Prep Method: NONE **Result Units:** MG/L
Analyst: Jason McNall

Client Sample ID	Lab ID	Date Collected	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag	Sample Aliquot
106088-F	1201329-6	01/26/2012	02/01/2012	02/01/2012	N/A	1	140	20		25 ml

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

AMMONIA AS N

Method EPA350.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106088-G
Lab ID: 1201329-7

Analysis ReqCode: **543**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 26-Jan-12
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: As Received
File Name: 0217NH.FDT

Analyst: Eric Allen Lin
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7664-41-7	AMMONIA AS N	1	0.1	0.1	U	

Data Package ID: *nh1201329-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106088-G
Lab ID: 1201329-7

Analysis ReqCode: **542**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 26-Jan-12
Date Extracted: 02-Feb-12
Date Analyzed: 02-Feb-12
Prep Method: NONE

Prep Batch: NN120202-1
QCBatchID: NN120202-1-1
Run ID: NN120202-1A
Cleanup: NONE
Basis: As Received
File Name: 0202ANOX.FDT

Analyst: Jason McNal
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
1-005	NITRATE/NITRITE AS N	1	0.04	0.01		

Data Package ID: *nn1201329-1*

Sulfide

Method EPA376.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106088-H
Lab ID: 1201329-8

Analysis ReqCode: **503**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 26-Jan-12
Date Extracted: 27-Jan-12
Date Analyzed: 27-Jan-12
Prep Method: NONE

Prep Batch: S120127-1
QCBatchID: S120127-1-1
Run ID: S120127-1A
Cleanup: NONE
Basis: As Received
File Name:

Analyst: Jason McNal
Sample Aliquot: 200 ML
Final Volume: 200 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
18496-25-8	SULFIDE	1	2	2	U	

Data Package ID: *s1201329-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106088-F
Lab ID: 1201329-6

Analysis ReqCode: **524**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 26-Jan-12
Date Extracted: 31-Jan-12
Date Analyzed: 31-Jan-12
Prep Method: NONE

Prep Batch: IC120131-1
QCBatchID: IC120131-1-2
Run ID: IC120131-A1
Cleanup: NONE
Basis: As Received
File Name: 20131_028.DXD

Analyst: Eric Allen Lin
Sample Aliquot: 5 ML
Final Volume: 5 ML
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE AnalysisTime: 14:06	1	0.34	0.1		
16887-00-6	CHLORIDE AnalysisTime: 14:06	1	17	0.2		
24959-67-9	BROMIDE AnalysisTime: 14:06	1	0.2	0.2	U	
14808-79-8	SULFATE AnalysisTime: 14:06	1	33	1		

Data Package ID: *ic1201329-1*

BICARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120201-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120201-1
QCBatchID: AK120201-1-1
Run ID: ak120201-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120201-1MB	2/1/2012	02/01/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

CARBONATE AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120201-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120201-1
QCBatchID: AK120201-1-1
Run ID: ak120201-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120201-1MB	2/1/2012	02/01/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120201-1MB

Sample Matrix: WATER
% Moisture: N/A

Prep Batch: AK120201-1
QCBatchID: AK120201-1-1
Run ID: ak120201-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

Lab ID	Date Prepared	Date Analyzed	Percent Moisture	Dilution Factor	Result	Reporting Limit	Flag
AK120201-1MB	2/1/2012	02/01/2012	N/A	1	5	5	U

Comments:

1. ND or U = Not Detected at or above the client requested detection limit.

Data Package ID: *ak1201329-1*

TOTAL ALKALINITY AS CaCO3

Method EPA310.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: AK120201-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/01/2012
Date Analyzed: 02/01/2012

Prep Batch: AK120201-1
QCBatchID: AK120201-1-1
Run ID: ak120201-1a
Cleanup: NONE
Basis: N/A

Sample Aliquot: 100 ml
Final Volume: 100 ml
Result Units: MG/L

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
	TOTAL ALKALINITY AS CaCO3	100	101	5		100	85 - 115

Data Package ID: *ak1201329-1*

AMMONIA AS N

Method EPA350.1
Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NH120217-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Feb-12
Date Analyzed: 17-Feb-12
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: N/A
File Name: 0217NH.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
7664-41-7	AMMONIA AS N	1	0.1	0.1	U	

Data Package ID: *nh1201329-1*

AMMONIA AS N

Method EPA350.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NH120217-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/17/2012
Date Analyzed: 02/17/2012
Prep Method: NONE

Prep Batch: NH120217-1
QCBatchID: NH120217-1-1
Run ID: NH120217-1A
Cleanup: NONE
Basis: N/A
File Name: 0217NH.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
7664-41-7	AMMONIA AS N	1	0.968	0.1		97	90 - 110%

Data Package ID: *nh1201329-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120202-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02-Feb-12
Date Analyzed: 02-Feb-12
Prep Method: NONE

Prep Batch: NN120202-1
QCBatchID: NN120202-1-1
Run ID: NN120202-1A
Cleanup: NONE
Basis: N/A
File Name: 0202ANOX.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
1-005	NITRATE/NITRITE AS N	1	0.01	0.01	U	

Data Package ID: *nn1201329-1*

Nitrate/Nitrite as N

Method EPA353.2 Revision 2.0

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: NN120202-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 02/02/2012
Date Analyzed: 02/02/2012
Prep Method: NONE

Prep Batch: NN120202-1
QCBatchID: NN120202-1-1
Run ID: NN120202-1A
Cleanup: NONE
Basis: N/A
File Name: 0202ANOX.FDT

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
1-005	NITRATE/NITRITE AS N	0.5	0.533	0.01		107	90 - 110%

Data Package ID: *nn1201329-1*

Sulfide

Method EPA376.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120127-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 27-Jan-12
Date Analyzed: 27-Jan-12
Prep Method: NONE

Prep Batch: S120127-1
QCBatchID: S120127-1-1
Run ID: S120127-1A
Cleanup: NONE
Basis: N/A
File Name:

Sample Aliquot: 200 ml
Final Volume: 200 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
18496-25-8	SULFIDE	1	2	2	U	

Data Package ID: *s1201329-1*

Sulfide

Method EPA376.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: S120127-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 01/27/2012
Date Analyzed: 01/27/2012
Prep Method: NONE

Prep Batch: S120127-1
QCBatchID: S120127-1-1
Run ID: S120127-1A
Cleanup: NONE
Basis: N/A
File Name:

Sample Aliquot: 200 ml
Final Volume: 200 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
18496-25-8	SULFIDE	11.8	11.9	2		101	80 - 120%

Data Package ID: *s1201329-1*

Sulfide

Method EPA376.1

Duplicate Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Field ID: 106088-H
Lab ID: 1201329-8D

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 01/26/2012
Date Extracted: 01/27/2012
Date Analyzed: 01/27/2012

Prep Batch: S120127-1
QCBatchID: S120127-1-1
Run ID: S120127-1A
Cleanup: NONE
Basis: As Received
File Name:

Sample Aliquot: 200 ml
Final Volume: 200 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Sample Result	Samp Qual	Duplicate Result	Dup Qual	Reporting Limit	Dilution Factor	RPD	RPD Limit
18496-25-8	SULFIDE	2	U	2	U	2	1		20

Data Package ID: *s1201329-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Method Blank

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120131-1MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 31-Jan-12
Date Analyzed: 31-Jan-12
Prep Method: NONE

Prep Batch: IC120131-1
QCBatchID: IC120131-1-2
Run ID: IC120131-A1
Cleanup: NONE
Basis: N/A
File Name: 20131_012.DXD

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	Result Qualifier	EPA Qualifier
16984-48-8	FLUORIDE	1	0.1	0.1	U	
16887-00-6	CHLORIDE	1	0.2	0.2	U	
24959-67-9	BROMIDE	1	0.2	0.2	U	
14808-79-8	SULFATE	1	1	1	U	

Data Package ID: *ic1201329-1*

Ion Chromatography

Method EPA300.0 Revision 2.1

Laboratory Control Sample

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1201329
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF 1Q12

Lab ID: IC120131-1LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 01/31/2012
Date Analyzed: 01/31/2012
Prep Method: NONE

Prep Batch: IC120131-1
QCBatchID: IC120131-1-2
Run ID: IC120131-A1
Cleanup: NONE
Basis: N/A
File Name: 20131_011.DXD

Sample Aliquot: 5 ml
Final Volume: 5 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
16984-48-8	FLUORIDE	2.5	2.74	0.1		109	90 - 110%
16887-00-6	CHLORIDE	5	5.38	0.2		108	90 - 110%
24959-67-9	BROMIDE	5	5.48	0.2		110	90 - 110%
14808-79-8	SULFATE	25	26.1	1		104	90 - 110%

Data Package ID: *ic1201329-1*