GC/MS Volatiles

Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF

Work Order Number: 1104180

1. This report consists of 1 water sample. The sample was received cool and intact by ALS on 04/15/11. The aqueous sample was free of headspace prior to analysis.

2. The sample was prepared according to SW-846, 3rd Edition procedures. Specifically, the water sample was prepared by purging 10 mL using purge and trap procedures based on Method 5030C.

3. The sample was analyzed using GC/MS with an RTX-624, RTX-VMS, or equivalent capillary column according to SOP 525 Revision 15 based on SW-846 Method 8260. All positive results were quantitated against the initial calibration standards using the internal standard technique. The identification of positive results was achieved by a comparison of the retention time and mass spectrum of the sample versus the daily calibration standard.

4. All initial calibration criteria were met.

5. All initial calibrations are verified by comparing a second source standard calibration verification (ICV) against the calibration curve. All criteria for initial calibration verification were met.

6. All criteria were met in daily (continuing) calibration verifications (CCV).

7. Methylene chloride, acetone and 2-butanone are common laboratory contaminants. In order to minimize the levels of these compounds detected in the gc/ms analysis, ALS has designated its volatile laboratory as a restricted access area. In addition, the laboratory has been equipped with a dedicated, air intake and exhaust system that operates under positive pressure in order to minimize cross contamination of these compounds. Due to fluctuations in ambient laboratory conditions, reported sample values for common laboratory contaminants may be due to lab contamination even if the compound in question is not detected in the associated method blank.

   All method blank criteria were met.

8. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.

9. 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.

10. The sample was analyzed within the established holding time.

11. All surrogate recoveries were within acceptance criteria.

12. All internal standard recoveries were within acceptance criteria.

13. 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.

Sharon L. Jobes Organics Primary Data Reviewer	4-26-11 Date
Organics Final Data Reviewer	4-26-11 Date

ALS
Data Qualifier Flags
Chromatography and Mass Spectrometry

U or ND:	**This flag indicates that the compound was analyzed for but not detected.**
J:	**This flag indicates an estimated value. This flag is used as follows : (1) when estimating a concentration for tentatively identified compounds (TICs) where a 1:1 response is assumed; (2) when the mass spectral and retention time data indicate the presence of a compound that meets the volatile and semivolatile GC/MS identification criteria, and the result is less than the reporting limit (RL) but greater than the method detection limit (MDL); (3) when the retention time data indicate the presence of a compound that meets the GC identification criteria, and the result is less than the RL but greater than the MDL; and (4) the reported value is estimated.**
B:	**This flag is used when the analyte is detected in the associated method blank as well as in the sample. It indicates probable blank contamination and warns the data user. This flag shall be used for a tentatively identified compound (TIC) as well as for a positively identified target compound.**
E:	**This flag identifies compounds whose concentration exceeds the upper level of the calibration range.**
A:	**This flag indicates that a tentatively identified compound is a suspected aldol-condensation product.**
X:	**This flag indicates that the analyte was diluted below an accurate quantitation level.**
***:**	**This flag indicates that a spike recovery is equal to or outside the control criteria used.**
+:	**This flag indicates that the relative percent difference (RPD) equals or exceeds the control criteria.**

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1104180
Client Name: NMED Hazardous Waste Bureau
Client Project Name: KAFB - BFF
Client Project Number:
Client PO Number: 10-667-00-13453

Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
10615-A	1104180-1		WATER	14-Apr-11	11:43
10615-B	1104180-2		WATER	14-Apr-11	11:45
10615-C	1104180-3		WATER	14-Apr-11	11:49
10615-D	1104180-4		WATER	14-Apr-11	11:51
10615-E	1104180-5		WATER	14-Apr-11	11:55
10615-F	1104180-6		WATER	14-Apr-11	11:58
10615-G	1104180-7		WATER	14-Apr-11	12:00
10615-H	1104180-8		WATER	14-Apr-11	12:01
10615-I	1104180-9		WATER	14-Apr-11	12:03
10615-J	1104180-10		WATER	14-Apr-11	12:04

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 #	1104180				
PAGE	1 of 1				
DISPOSAL	By Lab or Return to Client				

SAMPLER	SB / BS	DATE	4/14/11		
SITE ID	KAFB - 1061S	TURNAROUND	NORMAL		
PROJECT NAME	KAFB - BFF				
PROJECT No.		EDD FORMAT			
		PURCHASE ORDER			
COMPANY NAME	NMED	BILL TO COMPANY	NMED / HWB		
SEND REPORT TO	SID BRANDWEIN	INVOICE ATTN TO	DAVE COBRAIN		
ADDRESS	5500 SAN ANTONIO DR NE	ADDRESS	2905 RODEO PARK DR.		
CITY / STATE / ZIP	ALBQ, NM 87109	CITY / STATE / ZIP	SANTA FE, NM 87505		
PHONE	505-222-9584	PHONE	505-476-6055		
FAX		FAX			
E-MAIL	sid.brandwein@state.nm.us	E-MAIL			

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	VOC 8260	EDB 504/504.1	GRO 8015	DRO 8015	PAH-SVOC 8270 SIM	TC METALS 6010	ALK + ANIONS 310.1 300.0	NH3 + Nitrate + Nitrite 350.3 353.3	SULFIDE 376.1	DISS. METALS Fe + Mn only 6010	
1	1061S - A	W	4/14/11	11:43	3	HCl		X										Entered by [illegible] on 4-18-11.
2	1061S - B	W	"	11:45	3	HCl				X								
3	1061S - C	W	"	11:47	3	HCl			X									
4	1061S - D	W	"	11:51	1	—						X						
5	1061S - E	W	"	11:55	1	—					X							
6	1061S - F	W	"	11:58	1	—								X				
7	1061S - G	W	"	12:00	1	H_2SO_4									X			
8	1061S - H	W	"	12:01	1	$Zn(OAc)_2$										X		
9	1061S - I	W	"	12:03	1	HNO_3							X					
10	1061S - J	W	"	12:04	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:

TOTAL METALS TAL

DISSOLVED METALS Fe + Mn only

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	S. Brandwein	S. BRANDWEIN	4/14/11	2:45PM
RECEIVED BY	[illegible]		4/14/11	2:45PM
RELINQUISHED BY				
RECEIVED BY	[illegible]	Lauren Schmitz	4/15/11	0950
RELINQUISHED BY				
RECEIVED BY				

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1104180

Project Manager: LRS Initials: LAS Date: 4/15/11

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.)			(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):	1.4							
No. of custody seals on cooler:	1							
DOT Survey/ Acceptance Information — External µR/hr reading:	14							
Background µR/hr reading:	12							

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.

(8*) 1104180-5-1 (10615-E) had an initial pH=7 (analysis=DRO). At 1140, LAS added 0.5mL H_2SO_4 (Lot #49245) on 4/15/11 Final pH<2.

(14*) 1104180-3-3 (10615B) & 1104180-2-2 (10615C) have headspace > pea sized

If applicable, was the client contacted? (YES) / NO / NA Contact: Sid B. Date/Time: 4/18

Project Manager Signature / Date: [signature] 4/18/11

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

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

FedEx Express US Airbill

8704 5139 7711

0200

Form ID No. 110448

FedEx Retrieval Copy

1 From

Date 4/14/11 Sender's FedEx Account Number

Sender's Name S. BRADLEIN Phone 505 222-9543

Company NMED

Address 5500 SAN AUSTIN OR NE Dept./Floor/Suite/Room

City ALBQ State NM ZIP 87114

2 Your Internal Billing Reference

3 To

Recipient's Name L. STEERE Phone 970 490-1511

Company ALS LAB

1 ☐ HOLD Weekday Print FedEx location address below. NOT available for FedEx First Overnight.

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

Address 225 COMMERCE DR

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

Address

Print FedEx location address here if a HOLD option is selected.

City FORT COLLINS State CO ZIP 80524-2762

8704 5139 7711

4a Express Package Service * To most locations. *Packages up to 150 lbs.*

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

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

6 ☐ FedEx First Overnight Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.

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

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

4b Express Freight Service ** To most locations. *Packages over 150 lbs.*

7 ☐ FedEx 1Day Freight Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

FedEx 1Day Freight Booking No.

8 ☐ FedEx 2Day Freight Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

83 ☐ FedEx 3Day Freight Third business day.** Saturday Delivery NOT available.

5 Packaging * Declared value limit $500.

6 ☐ FedEx Envelope* 2 ☐ FedEx Pak* Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak. 3 ☐ FedEx Box 4 ☐ FedEx Tube 1 ☒ Other

6 Special Handling and Delivery Signature Options

3 ☐ **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 4 ☐ Yes As per attached Shipper's Declaration. ☐ Yes Shipper's Declaration not required. 6 ☐ 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

Total Packages 1 Total Weight 30.2 lbs. Credit Card Auth.

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

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GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Lab ID: VL110417-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: N/A
File Name: C28826

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.18	U	
74-87-3	CHLOROMETHANE	1	1	1	0.16	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.2	U	
74-83-9	BROMOMETHANE	1	1	1	0.18	U	
75-00-3	CHLOROETHANE	1	1	1	0.21	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.22	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.18	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROET	1	1	1	0.2	U	
67-64-1	ACETONE	1	10	10	2.4	U	
74-88-4	IODOMETHANE	1	1	1	0.18	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.19	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	0.17	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.19	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.17	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.16	U	
108-05-4	VINYL ACETATE	1	2	2	0.28	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.17	U	
78-93-3	2-BUTANONE	1	10	10	1.8	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.2	U	
67-66-3	CHLOROFORM	1	1	1	0.18	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.18	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.15	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.17	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.17	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.18	U	
71-43-2	BENZENE	1	1	1	0.17	U	
79-01-6	TRICHLOROETHENE	1	1	1	0.17	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.17	U	

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Lab ID: VL110417-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: N/A
File Name: C28826

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
74-95-3	DIBROMOMETHANE	1	1	1	0.22	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.22	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.2	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	1.5	U	
108-88-3	TOLUENE	1	1	1	0.19	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.21	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.24	U	
591-78-6	2-HEXANONE	1	10	10	1.7	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.18	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.23	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.25	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.24	U	
544-10-5	1-CHLOROHEXANE	1	1	1	0.17	U	
108-90-7	CHLOROBENZENE	1	1	1	0.19	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.24	U	
100-41-4	ETHYLBENZENE	1	1	1	0.18	U	
136777-61-2	M+P-XYLENE	1	1	1	0.17	U	
95-47-6	O-XYLENE	1	1	1	0.2	U	
100-42-5	STYRENE	1	1	1	0.24	U	
75-25-2	BROMOFORM	1	1	1	0.29	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.2	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.31	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.27	U	
108-86-1	BROMOBENZENE	1	1	1	0.2	U	
103-65-1	N-PROPYLBENZENE	1	1	1	0.18	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.21	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.19	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	0.2	U	

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Method Blank

Lab Name: ALS Environmental -- FC
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Lab ID: VL110417-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: N/A
File Name: C28826

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.22	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.2	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.18	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.2	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.17	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.2	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.17	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.22	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.55	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.22	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.26	U	
91-20-3	NAPHTHALENE	1	1	1	0.25	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.22	U	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25.1		25	100	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25.6		25	102	84 - 118
2037-26-5	TOLUENE-D8	23.5		25	94	85 - 115

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 10615-A
Lab ID: 1104180-1

Analysis ReqCode: **101**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Apr-11
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11
Prep Method: SW5030 Rev C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: As Received
File Name: C28843

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
75-71-8	DICHLORODIFLUOROMETHANE	1	1	1	0.18	U	
74-87-3	CHLOROMETHANE	1	1	1	0.16	U	
75-01-4	VINYL CHLORIDE	1	1	1	0.2	U	
74-83-9	BROMOMETHANE	1	1	1	0.18	U	
75-00-3	CHLOROETHANE	1	1	1	0.21	U	
75-69-4	TRICHLOROFLUOROMETHANE	1	1	1	0.22	U	
75-35-4	1,1-DICHLOROETHENE	1	1	1	0.18	U	
76-13-1	1,1,2-TRICHLORO-1,2,2-TRIFLUOROETH	1	1	1	0.2	U	
67-64-1	ACETONE	1	10	10	2.4	U	
74-88-4	IODOMETHANE	1	1	1	0.18	U	
75-15-0	CARBON DISULFIDE	1	1	1	0.19	U	
75-09-2	METHYLENE CHLORIDE	1	1	1	0.17	U	
156-60-5	TRANS-1,2-DICHLOROETHENE	1	1	1	0.19	U	
1634-04-4	METHYL TERTIARY BUTYL ETHER	1	1	1	0.17	U	
75-34-3	1,1-DICHLOROETHANE	1	1	1	0.16	U	
108-05-4	VINYL ACETATE	1	2	2	0.28	U	
156-59-2	CIS-1,2-DICHLOROETHENE	1	1	1	0.17	U	
78-93-3	2-BUTANONE	1	10	10	1.8	U	
74-97-5	BROMOCHLOROMETHANE	1	1	1	0.2	U	
67-66-3	CHLOROFORM	1	1	1	0.18	U	
71-55-6	1,1,1-TRICHLOROETHANE	1	1	1	0.18	U	
594-20-7	2,2-DICHLOROPROPANE	1	1	1	0.15	U	
56-23-5	CARBON TETRACHLORIDE	1	1	1	0.17	U	
563-58-6	1,1-DICHLOROPROPENE	1	1	1	0.17	U	
107-06-2	1,2-DICHLOROETHANE	1	1	1	0.18	U	
71-43-2	BENZENE	1	1	1	0.17	U	

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 10615-A
Lab ID: 1104180-1

Analysis ReqCode: 101

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Apr-11
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11
Prep Method: SW5030 Rev C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: As Received
File Name: C28843

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
79-01-6	TRICHLOROETHENE	1	1	1	0.17	U	
78-87-5	1,2-DICHLOROPROPANE	1	1	1	0.17	U	
74-95-3	DIBROMOMETHANE	1	1	1	0.22	U	
75-27-4	BROMODICHLOROMETHANE	1	1	1	0.22	U	
10061-01-5	CIS-1,3-DICHLOROPROPENE	1	1	1	0.2	U	
108-10-1	4-METHYL-2-PENTANONE	1	10	10	1.5	U	
108-88-3	TOLUENE	1	1	1	0.19	U	
10061-02-6	TRANS-1,3-DICHLOROPROPENE	1	1	1	0.21	U	
79-00-5	1,1,2-TRICHLOROETHANE	1	1	1	0.24	U	
591-78-6	2-HEXANONE	1	10	10	1.7	U	
127-18-4	TETRACHLOROETHENE	1	1	1	0.18	U	
142-28-9	1,3-DICHLOROPROPANE	1	1	1	0.23	U	
124-48-1	DIBROMOCHLOROMETHANE	1	1	1	0.25	U	
106-93-4	1,2-DIBROMOETHANE	1	1	1	0.24	U	
544-10-5	1-CHLOROHEXANE	1	1	1	0.17	U	
108-90-7	CHLOROBENZENE	1	1	1	0.19	U	
630-20-6	1,1,1,2-TETRACHLOROETHANE	1	1	1	0.24	U	
100-41-4	ETHYLBENZENE	1	1	1	0.18	U	
136777-61-2	M+P-XYLENE	1	1	1	0.17	U	
95-47-6	O-XYLENE	1	1	1	0.2	U	
100-42-5	STYRENE	1	1	1	0.24	U	
75-25-2	BROMOFORM	1	1	1	0.29	U	
98-82-8	ISOPROPYLBENZENE	1	1	1	0.2	U	
96-18-4	1,2,3-TRICHLOROPROPANE	1	1	1	0.31	U	
79-34-5	1,1,2,2-TETRACHLOROETHANE	1	1	1	0.27	U	
108-86-1	BROMOBENZENE	1	1	1	0.2	U	

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 10615-A
Lab ID: 1104180-1

Analysis ReqCode: **101**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Apr-11
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11
Prep Method: SW5030 Rev C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: As Received
File Name: C28843

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
103-65-1	N-PROPYLBENZENE	1	1	1	0.18	U	
95-49-8	2-CHLOROTOLUENE	1	1	1	0.21	U	
108-67-8	1,3,5-TRIMETHYLBENZENE	1	1	1	0.19	U	
106-43-4	4-CHLOROTOLUENE	1	1	1	0.2	U	
98-06-6	TERT-BUTYLBENZENE	1	1	1	0.22	U	
95-63-6	1,2,4-TRIMETHYLBENZENE	1	1	1	0.2	U	
135-98-8	SEC-BUTYLBENZENE	1	1	1	0.18	U	
541-73-1	1,3-DICHLOROBENZENE	1	1	1	0.2	U	
99-87-6	P-ISOPROPYLTOLUENE	1	1	1	0.17	U	
106-46-7	1,4-DICHLOROBENZENE	1	1	1	0.2	U	
104-51-8	N-BUTYLBENZENE	1	1	1	0.17	U	
95-50-1	1,2-DICHLOROBENZENE	1	1	1	0.22	U	
96-12-8	1,2-DIBROMO-3-CHLOROPROPANE	1	2	2	0.55	U	
120-82-1	1,2,4-TRICHLOROBENZENE	1	1	1	0.22	U	
87-68-3	HEXACHLOROBUTADIENE	1	1	1	0.26	U	
91-20-3	NAPHTHALENE	1	1	1	0.25	U	
87-61-6	1,2,3-TRICHLOROBENZENE	1	1	1	0.22	U	

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Sample Results

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 10615-A
Lab ID: 1104180-1

Analysis ReqCode: **101**

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 14-Apr-11
Date Extracted: 17-Apr-11
Date Analyzed: 17-Apr-11
Prep Method: SW5030 Rev C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: As Received
File Name: C28843

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	24.9		25	99	85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	26.4		25	106	84 - 118
2037-26-5	TOLUENE-D8	23.6		25	94	85 - 115

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Lab ID: VL110417-3LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 04/17/2011
Date Analyzed: 04/17/2011
Prep Method: SW5030C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: N/A
File Name: C28822

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
75-35-4	1,1-DICHLOROETHENE	10	10.6	1		106	77 - 119%
71-43-2	BENZENE	10	10.8	1		108	83 - 117%
79-01-6	TRICHLOROETHENE	10	11.1	1		111	83 - 117%
108-88-3	TOLUENE	10	9.86	1		99	82 - 113%
108-90-7	CHLOROBENZENE	10	10	1		100	81 - 113%

Lab ID: VL110417-3LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 04/17/2011
Date Analyzed: 04/17/2011
Prep Method: SW5030C

Prep Batch: VL110417-3
QCBatchID: VL110417-3-3
Run ID: VL110417-3A
Cleanup: NONE
Basis: N/A
File Name: C28823

Sample Aliquot: 10 ml
Final Volume: 10 ml
Result Units: UG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
75-35-4	1,1-DICHLOROETHENE	10	10.9	1		109	20	2
71-43-2	BENZENE	10	11.2	1		112	20	4
79-01-6	TRICHLOROETHENE	10	11.4	1		114	20	2
108-88-3	TOLUENE	10	9.71	1		97	20	2
108-90-7	CHLOROBENZENE	10	9.8	1		98	20	2

Data Package ID: *VL1104180-1*

GC/MS Volatiles

Method SW8260_25C

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: **ALS Environmental -- FC**
Work Order Number: 1104180
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
460-00-4	4-BROMOFLUOROBENZENE	25	101		101		85 - 115
1868-53-7	DIBROMOFLUOROMETHANE	25	101		104		84 - 118
2037-26-5	TOLUENE-D8	25	96		95		85 - 115

Data Package ID: *VL1104180-1*