Total Extractable Petroleum Hydrocarbons (Diesel)

Case Narrative

NMED Hazardous Waste Bureau

KAFB - BFF

Work Order Number: 1105085

1. This report consists of 2 water samples. The samples were received cool and intact by ALS on 05/06/2011.

2. The water samples were extracted by adding hexane to the water sample and shaking the resulting two phase solution according to SOP 603 Revision 12, which was developed at ALS. The hydrocarbons partition into the hexane layer, which is then removed for analysis.

3. The extracts were then analyzed using GC with a ZB-5HT capillary column and a flame ionization detector (FID) according to SOP 406 Revision 15 generally based on SW-846 Method 8000B and Method 8015B. The procedures are based on this general method because SW-846 does not have a specific method for total extractable petroleum hydrocarbons (TEPH) or diesel range organics. The only true modification from this method is that TEPH is a multicomponent mixture and is quantitated by summing the entire range, rather than individual peaks. All positive results were quantitated using the responses from the initial calibration curve using the external standard technique. Also, a confirmation column is not used, because the analyte is a multicomponent mixture and the specific carbon range of the peaks detected is specified on the individual sample reporting forms.

4. All initial and continuing calibration criteria were met.

5. The method blank associated with this project was below the reporting limit, but above the MDL for diesel range organics. No diesel or other fuel pattern was present in the method blank. Typically, small fluctuations in the detector baseline are responsible for this type of low level analytical result with no observable fuel pattern.

   No fuels were observed in the chromatograms for these samples. Quantitations for DRO were due to excessive baseline drift.

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

7. Sample 1105085-5 was designated as the quality control sample for this analysis.

   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.

   All matrix spike and matrix spike duplicate recoveries and RPDs were within the acceptance criteria.

8. All samples were extracted and analyzed within the established holding time.

9. All surrogate recoveries were within the acceptance criteria.

10. 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.

Mindy Norton
Organics Primary Data Reviewer

05-16-11
Date

Organics Final Data Reviewer

05-16-2011
Date

ALS
Data Qualifier Flags
Fuels

G:	**This flag indicates that a pattern resembling gasoline was detected in this sample.**
D:	**This flag indicates that a pattern resembling diesel was detected in this sample.**
M:	**This flag indicates that a pattern resembling motor oil was detected in this sample.**
C:	**This flag indicates that a pattern resembling crude oil was detected in this sample.**
4:	**This flag indicates that a pattern resembling JP-4 was detected in this sample.**
5:	**This flag indicates that a pattern resembling JP-5 was detected in this sample.**
H:	**This flag indicates that the fuel pattern was in the heavier end of the retention time window for the analyte of interest.**
L:	**This flag indicates that the fuel pattern was in the lighter end of the retention time window for the analyte of interest.**
Z:	**This flag indicates that a significant fraction of the reported result did not resemble the patterns of any of the following petroleum hydrocarbon products:** **gasoline** **JP-8** **diesel** **mineral spirits** **motor oil** **Stoddard solvent** **bunker C** **Multiple flags may be used to indicate the presence of more than one product or component.**

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 data indicate the presence of a compound that meets the 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 outside the control criteria.**
+:	**This flag indicates that the relative percent difference (RPD) exceeds the control criteria.**

ALS Environmental -- FC

Sample Number(s) Cross-Reference Table

OrderNum: 1105085
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
106048-A	1105085-1		WATER	05-May-11	13:05
106048-B	1105085-2		WATER	05-May-11	13:10
106048-C	1105085-3		WATER	05-May-11	13:14
106048-D	1105085-4		WATER	05-May-11	13:17
106048-E	1105085-5		WATER	05-May-11	13:20
106048-F	1105085-6		WATER	05-May-11	13:22
106048-G	1105085-7		WATER	05-May-11	13:23
106048-H	1105085-8		WATER	05-May-11	13:24
106048-I	1105085-9		WATER	05-May-11	13:25
106048-J	1105085-10		WATER	05-May-11	13:26
106047-A	1105085-11		WATER	05-May-11	16:35
106047-B	1105085-12		WATER	05-May-11	16:50
106047-C	1105085-13		WATER	05-May-11	16:53
106047-D	1105085-14		WATER	05-May-11	16:56
106047-E	1105085-15		WATER	05-May-11	17:00
106047-F	1105085-16		WATER	05-May-11	17:01
106047-G	1105085-17		WATER	05-May-11	17:02
106047-H	1105085-18		WATER	05-May-11	17:03
106047-I	1105085-19		WATER	05-May-11	17:04
106047-J	1105085-20		WATER	05-May-11	17:05

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 # 1105085

PAGE 1 of 2

DISPOSAL: By Lab or Return to Client

PROJECT NAME	KAFB - BFF	SAMPLER	SSB
PROJECT No.		SITE ID	KAFB - 106048
		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	505-222-9504	PHONE	505-476-6055
FAX		FAX	
E-MAIL	sid.brandwein@state.nm.us	E-MAIL	

DATE: 5/5/11
TURNAROUND: NORMAL

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC	VOC 8260	EDB 8011/504.1	GRO 8015	DRO 8015	PAH 8270 SIMS	TOTAL METALS TAL 6010	ALK + ANIONS 310.1 300	NH3+NITRATE/NITRITE 350.3 353.3	SULFIDE 376.1	DISS. MET. 6010 Fe, Mn only
1	106048 - A	W	5/5/11	13:05	3	HCl		X									
2	106048 - B	W		13:10	3	HCl				X							
3	106048 - C	W		13:14	3	HCl			X								
4	106048 - D	W		13:17	1	-						X					
5	106048 - E	W		13:20	1	-					X						
6	106048 - F	W		13:22	1	-								X			
7	106048 - G	W		13:23	1	H_2SO_4									X		
8	106048 - H	W		13:24	1	ZnAc										X	
9	106048 - I	W	↓	13:25	1	HNO_3							X				
10	106048 - J	W	5/5/11	13:26	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:

TOT. MET - TAL

DISS MET 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	5/5/11	17:12
RECEIVED BY		Lauren Schmitz	5/6/11	1010
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

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 #: 1105085

		SAMPLER	SSB	DATE	5/5/11
PROJECT NAME	KAFB- BFF	SITE ID	KAFB - 106047	TURNAROUND	NORMAL
PROJECT No.		EDD FORMAT		PAGE	2 of 2
		PURCHASE ORDER		DISPOSAL	(By Lab) or Return to Client
COMPANY NAME	NM ED	BILL TO COMPANY	NM ED / HWB		
SEND REPORT TO	SID BRANDWEIN	INVOICE ATTN TO	DAVE COBRAIN		
ADDRESS	5500 SAN ANTONIO DR	ADDRESS	2905 RODEO PARK DR.		
CITY / STATE / ZIP	ALBQ, NM 87109	CITY / STATE / ZIP	SANTA FE, NM 87505		
PHONE	505-222-9504	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	VOCs 8260	EDB 8011/504.1	GRO 8015	DRO 8015	PAH SVOCs 8270 SIMS	TOTAL METALS TAL 6010	ALK + ANIONS 310.1 300	NH3 NITRATE NITRITE 350.3 353.2	SUL FIDE 376.1	DISS. MET 6010 Fe, Mn only
11	106047 -A	W	5/5/11	16:35	3	HCl		X									
12	106047 -B	W	↓	16:50	3	HCl				X							
13	106047 -C	W	↓	16:53	3	HCl			X								
14	106047 -D	W	↓	16:56	1	—						X					
15	106047 -E	W	↓	17:00	1	—					X						
16	106047 -F	W	↓	17:01	1	—								X			
17	106047 -G	W	↓	17:02	1	H_2SO_4									X		
18	106047 -H	W	↓	17:03	1	ZnAc										X	
19	106047 -I	W	↓	17:04	1	HNO_3							X				
20	106047 -J	W	5/5/11	17:05	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:

TOT. METALS - TAL

DISS MET - 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	[signature]	S. BRANDWEIN	5/5/11	17:12
RECEIVED BY	[signature]	Lauren Schmitz	5/6/11	1010
RELINQUISHED BY				
RECEIVED BY				
RELINQUISHED BY				
RECEIVED BY				

ALS Laboratory Group - Fort Collins

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1105085

Project Manager: LRS Initials: LAS Date: 5/6/11

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):	5.4								
No. of custody seals on cooler:	2								
DOT Survey/ Acceptance Information — External µR/hr reading:	16								
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.

* please see page 2

If applicable, was the client contacted? **(YES) / NO / NA** Contact: Sid B Date/Time: 5/6

Project Manager Signature / Date: 5/6/11

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

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

CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED Workorder No: 1105085

Project Manager: LRS Initials: LAS Date: 5/6/11

Additional Information:

(*) 1105085-2-1 (106048-B)
3-1 (106048-C) } all have headspace < pea sized
3-2 ↓
Proceed

(*) 1105085-11 (106047-A) arrived with one vial broken, sample not useable, so only 2 vials for this sample
Noted

Was the laboratory directed to proceed with the analysis of any samples yielding the presence of residual chlorine? **YES / NO / NA**

NOTE:

No pH adjustments shall be made without prior consent of Project Manager. After pH adjustments, hold metals and radchem samples ≥ 24 hrs. before analysis.

Was the pH of any sample adjusted by the laboratory? (**YES**) (See Table below) / **NO**

pH Excursion:

Laboratory Sample ID	Client Sample ID	Initial pH	Final pH	Reagent Used	Volume Added (mL)	Lot No. of Reagent	Requested Analysis	Initials / Date / Time
1105085-5-1	106048-E	7	<2	H_2SO_4	0.5	49245	DRO	LAS 5/6/11 @ 1050
↓ -15-1	106047-E	↓	↓	↓	↓	↓	↓	↓
					Noted			

If applicable, was the client contacted? (**YES**) / **NO / NA** Contact: _____ Date/Time: _____

Project Manager Signature / Date: Sid B. 5/6/11

FedEx Express® **NEW** Package US Airbill

FedEx Tracking Number 8758 3193 2310

0200 Form ID No.

//05085

FedEx Retrieval Copy

1 From

Date 5/5/11 Sender's FedEx Account Number

Sender's Name SID BRANDWEIN Phone 505 222-9504

Company NM ED

Address 5500 SAN ANTONIO DR. NE Dept/Floor/Suite/Room

City ALBQ State NM ZIP 87109

2 Your Internal Billing Reference

3 To

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

Company ALS LAB

Address 225 COMMERCE Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

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

City FT. COLLINS State CO ZIP 80524 - 2762

8758 3193 2310

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.

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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 [illegible] — afternoon.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

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

27 91

5 Packaging * Declared value limit $500.

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

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. For residential deliveries only.

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.

5.4

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, 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:*

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

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

[redacted]

Credit Card Auth.

Total Packages 1 Total Weight 4.6

*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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Diesel Range Organics

Method SW8015MB

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1105085

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Lab ID: EX110509-3MB

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 09-May-11
Date Analyzed: 11-May-11

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: N/A
File Name: F3F38982

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	DF	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.44	0.5	0.17	J	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.04		1.25	83	57 - 132

Data Package ID: *HCD1105085-1*

Diesel Range Organics

Method SW8015MB

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1105085
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 106048-E
Lab ID: 1105085-5

Analysis ReqCode: 163

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 05-May-11
Date Extracted: 09-May-11
Date Analyzed: 11-May-11
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: As Received
File Name: F3F38985

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.51	0.5	0.17	B	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.06		1.25	85	57 - 132

Data Package ID: *HCD1105085-1*

Diesel Range Organics

Method SW8015MB

Sample Results

Lab Name: ALS Environmental -- FC
Work Order Number: 1105085
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 106047-E
Lab ID: 1105085-15

Analysis ReqCode: 163

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 05-May-11
Date Extracted: 09-May-11
Date Analyzed: 11-May-11
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: As Received
File Name: F3F38988

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Dilution Factor	Result	Reporting Limit	MDL	Result Qualifier	EPA Qualifier
68334-30-5	Diesel Range Organics	1	0.56	0.5	0.17	B	

Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.06		1.25	85	57 - 132

Data Package ID: *HCD1105085-1*

Diesel Range Organics

Method SW8015MB

Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1105085

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF

Lab ID: EX110509-3LCS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 05/09/2011
Date Analyzed: 05/11/2011
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: N/A
File Name: F3F38983

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	5	4.85	0.5		97	36 - 150%

Lab ID: EX110509-3LCSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: N/A
Date Extracted: 05/09/2011
Date Analyzed: 05/11/2011
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: N/A
File Name: F3F38984

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
Clean DF: 1

CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	Diesel Range Organics	5	5	0.5		100	20	3

Surrogate Recovery LCS/LCSD

CASNO	Target Analyte	Spike Added	LCS % Rec.	LCS Flag	LCSD % Rec.	LCSD Flag	Control Limits
84-15-1	O-TERPHENYL	1.25	90		91		57 - 132

Data Package ID: *HCD1105085-1*

Diesel Range Organics

Method SW8015MB

Matrix Spike And Matrix Spike Duplicate

Lab Name: ALS Environmental -- FC
Work Order Number: 1105085
Client Name: NMED Hazardous Waste Bureau
ClientProject ID: KAFB - BFF

Field ID: 106048-E
LabID: 1105085-5MS

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 05-May-11
Date Extracted: 09-May-11
Date Analyzed: 11-May-11
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
File Name: F3F38986

CASNO	Target Analyte	Sample Result	Samp Qual	MS Result	MS Qual	Reporting Limit	Spike Added	MS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	0.51	B	5.39		0.5	5	98	36 - 150%

Field ID: 106048-E
LabID: 1105085-5MSD

Sample Matrix: WATER
% Moisture: N/A
Date Collected: 05-May-11
Date Extracted: 09-May-11
Date Analyzed: 11-May-11
Prep Method: METHOD

Prep Batch: EX110509-3
QCBatchID: EX110509-3-1
Run ID: HCD110510-3A
Cleanup: NONE
Basis: As Received

Sample Aliquot: 160 ml
Final Volume: 4 ml
Result Units: MG/L
File Name: F3F38987

CASNO	Target Analyte	MSD Result	MSD Qual	Spike Added	MSD % Rec.	Reporting Limit	RPD Limit	RPD
68334-30-5	Diesel Range Organics	5.12		5	92	0.5	20	5

Surrogate Recovery MS/MSD

CASNO	Target Analyte	Spike Added	MS % Rec.	MS Flag	MSD % Rec.	MSD Flag	Control Limits
84-15-1	O-TERPHENYL	1.25	92		83		57 - 132

Data Package ID: *HCD1105085-1*