



# Total Extractable Petroleum Hydrocarbons (Diesel)

## Case Narrative

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### **NMED Hazardous Waste Bureau**

**KAFB – BFF 3Q11**

Work Order Number: 1108252

1. This report consists of 2 water samples. The samples were received cool and intact by ALS on 08/18/2011.
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 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 MDL for diesel range organics.
6. All laboratory control sample and laboratory control sample duplicate recoveries and RPDs were within the acceptance criteria.
7. Per method requirements, matrix QC was performed for this analysis. 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.



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  
Mindy Norton  
Organics Primary Data Reviewer

9.12.11  
Date

Joel Nove  
Organics Final Data Reviewer

9-12-11  
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

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**OrderNum:** 1108252

**Client Name:** NMED Hazardous Waste Bureau

**Client Project Name:** KAFB - BFF 3Q11

**Client Project Number:**

**Client PO Number:** 10-667-00-13453

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Client Sample Number	Lab Sample Number	COC Number	Matrix	Date Collected	Time Collected
11677-A	1108252-1		WATER	17-Aug-11	13:32
11677-B	1108252-2		WATER	17-Aug-11	13:40
11677-C	1108252-3		WATER	17-Aug-11	13:53
11677-D	1108252-4		WATER	17-Aug-11	14:00
11677-E	1108252-5		WATER	17-Aug-11	14:02
11677-F	1108252-6		WATER	17-Aug-11	14:03
11677-G	1108252-7		WATER	17-Aug-11	14:04
11677-H	1108252-8		WATER	17-Aug-11	14:06
11677-I	1108252-9		WATER	17-Aug-11	14:07
11677-J	1108252-10		WATER	17-Aug-11	14:08
106081-A	1108252-11		WATER	17-Aug-11	11:30
106081-B	1108252-12		WATER	17-Aug-11	11:38
106081-C	1108252-13		WATER	17-Aug-11	11:51
106081-D	1108252-14		WATER	17-Aug-11	11:58
106081-E	1108252-15		WATER	17-Aug-11	12:03
106081-F	1108252-16		WATER	17-Aug-11	12:04
106081-G	1108252-17		WATER	17-Aug-11	12:06
106081-H	1108252-18		WATER	17-Aug-11	12:07
106081-I	1108252-19		WATER	17-Aug-11	12:08
106081-J	1108252-20		WATER	17-Aug-11	12:10

PROJECT NAME	KLAFS BFF 3Q11	SAMPLER	55B	DATE	8/17/11	WORKORDER #	1108252
PROJECT No.		SITE ID	KAFFB-11677	TURNAROUND	normal	PAGE	1 of 1
COMPANY NAME	NHED	EDD FORMAT				DISPOSAL	By Lab or Return to Client
SEND REPORT TO	SID BRANDHEIN	PURCHASE ORDER					
ADDRESS	5500 SAN ANTONIO DR	BILL TO COMPANY	NHED/HWB				
CITY/STATE/ZIP	ALBQ, NM 87109	INVOICE ATTN TO	DAVE COBRAIN				
PHONE	505-222-9504	ADDRESS	2905 RODEO PARK DR.				
FAX		CITY/STATE/ZIP	SANTA FE, NM 87505				
E-MAIL		PHONE	505-476-6055				
		FAX					
		E-MAIL					

Lab ID	Field ID	Matrix	Sample Date	Sample Time	# Bottles	Pres.	QC
1	11677-A	W	8/17/11	1:32	3	HG	
2	11677-B	W		1:40	3	KC	
3	11677-C	W		1:53	3	HG	
4	11677-D	W		2:00	1	-	
5	11677-E	W		2:02	1	HSG	
6	11677-F	W		2:03	1	-	
7	11677-G	W		2:04	1	HSG	
8	11677-H	W		2:06	1	HSG	
9	11677-I	W		2:07	1	HSG	
10	11677-J	W	8/17/11	2:08	1	HSG	

RELINQUISHED BY		SIGNATURE		DATE		TIME	
RECEIVED BY			A. Brandhein	8/17/11	2:30	8/17/11	
RELINQUISHED BY			David Daniel	8/18/11	10:11	10:10	
RECEIVED BY							
RELINQUISHED BY							
RECEIVED BY							

\*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: DC MET - TAL 6010  
 DC MET - Fe, Mn only 6010

QC PACKAGE (check below)

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

6 of 1

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





CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED

Workorder No: 1108252 pl.

Project Manager: LS

Initials: KR Date: 8-18-11

1. Does this project require any <b>special handling</b> in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody seals on <b>shipping containers</b> intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on <b>sample containers</b> intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a <b>COC (Chain-of-Custody)</b> present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the <b>COC and bottle labels complete and legible</b> ?		<input checked="" type="radio"/> YES	NO
6. Is the <b>COC in agreement</b> with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were <b>airbills / shipping documents</b> present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all <b>aqueous samples requiring preservation preserved correctly? (excluding volatiles)</b>	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous <b>non-preserved samples pH 4-9</b> ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there <b>sufficient sample</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the <b>proper containers</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within <b>holding times</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received <b>intact?</b> (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring <b>no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)</b> headspace free? Size of bubble: <u>          </u> < green pea <u>          </u> > green pea	<del>KRS</del> <del>N/A</del> 8-18-11	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples <b>have headspace?</b> (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of <b>residual chlorine?</b> (Applicable when PM has indicated samples are from a chlorinated water source: note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples <b>shipped on ice?</b>		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C? IR gun used*: <input checked="" type="radio"/> #2 #4 RAD ONLY		<input checked="" type="radio"/> YES	NO
Cooler #: <u>1</u>			
Temperature (°C): <u>2.0</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>14</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> 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.

If applicable, was the client contacted? YES / NO / NA Contact: [Signature] Date/Time: 8/19/11

Project Manager Signature / Date: [Signature] 8/19/11



CONDITION OF SAMPLE UPON RECEIPT FORM

Client: NMED

Workorder No: 1108259 ~~110752 p2~~

Project Manager: LS

Initials: YB Date: 8-18-11

1. Does this project require any <b>special handling</b> in addition to standard Paragon procedures?		YES	<input checked="" type="radio"/> NO
2. Are custody <b>seals on shipping containers</b> intact?	NONE	<input checked="" type="radio"/> YES	NO
3. Are Custody seals on <b>sample containers</b> intact?	<input checked="" type="radio"/> NONE	YES	NO
4. Is there a <b>COC (Chain-of-Custody)</b> present or other representative documents?		<input checked="" type="radio"/> YES	NO
5. Are the <b>COC and bottle labels complete and legible</b> ?		<input checked="" type="radio"/> YES	NO
6. Is the <b>COC in agreement</b> with samples received? (IDs, dates, times, no. of samples, no. of containers, matrix, requested analyses, etc.)		<input checked="" type="radio"/> YES	NO
7. Were <b>airbills / shipping documents</b> present and/or removable?	DROP OFF	<input checked="" type="radio"/> YES	NO
8. Are all <b>aqueous samples requiring preservation preserved correctly?</b> (excluding volatiles)	N/A	<input checked="" type="radio"/> YES	NO
9. Are all aqueous <b>non-preserved samples pH 4-9</b> ?	N/A	<input checked="" type="radio"/> YES	NO
10. Is there <b>sufficient sample</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
11. Were all samples placed in the <b>proper containers</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
12. Are all samples within <b>holding times</b> for the requested analyses?		<input checked="" type="radio"/> YES	NO
13. Were all sample containers received <b>intact?</b> (not broken or leaking, etc.)		<input checked="" type="radio"/> YES	NO
14. Are all samples requiring <b>no headspace (VOC, GRO, RSK/MEE, Rx CN/S, radon)</b> headspace free? <b>Size of bubble:</b> _____ < green pea _____ > green pea	N/A	<input checked="" type="radio"/> YES	NO
15. Do perchlorate LCMS-MS samples <b>have headspace?</b> (at least 1/3 of container required)	<input checked="" type="radio"/> N/A	YES	NO
16. Were samples checked for and free from the presence of <b>residual chlorine?</b> (Applicable when PM has indicated samples are from a chlorinated water source; note if field preservation with sodium thiosulfate was not observed.)	<input checked="" type="radio"/> N/A	YES	NO
17. Were the samples <b>shipped on ice?</b>		<input checked="" type="radio"/> YES	NO
18. Were cooler temperatures measured at 0.1-6.0°C?	IR gun used*: <input checked="" type="radio"/> #2 #4	RAD ONLY	<input checked="" type="radio"/> YES NO
Cooler #: <u>1</u>			
Temperature (°C): <u>1.6</u>			
No. of custody seals on cooler: <u>2</u>			
External µR/hr reading: <u>12</u>			
Background µR/hr reading: <u>12</u>			
Were external µR/hr readings ≤ two times background and within DOT acceptance criteria? <input checked="" type="radio"/> YES <input type="radio"/> NO <input type="radio"/> NA (If no, see Form 008.)			

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

If applicable, was the client contacted? YES / NO / NA Contact: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager Signature / Date: [Signature] 8/15/11

\*IR Gun #2: Oakton, SN 29922500201-0066 Form 201r22.xls (6/1/09)

\*IR Gun #4: Oakton, SN 2372220101-0002



81077  
USPS

FedEx  
Tracking  
Number

8762 4637 7415

0200 Form  
ID No.

1108252

FedEx Copy

**1 From**

Date: 1/17/11 Sender's FedEx Account Number: \_\_\_\_\_

Sender's Name: [Handwritten] Phone: [Handwritten]

Company: [Handwritten]

Address: [Handwritten] Dept./Floor/Suite/Room: \_\_\_\_\_

City: [Handwritten] State: [Handwritten] ZIP: [Handwritten]

**2 Your Internal Billing Reference**

---

**3 To**

Recipient's Name: [Handwritten] Phone: [Handwritten]

Company: [Handwritten]

Address: [Handwritten] Dept./Floor/Suite/Room: \_\_\_\_\_

Address: [Handwritten] Use this line for the HOLD location address or for continuation of your shipping address.

City: [Handwritten] State: [Handwritten] ZIP: [Handwritten]

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

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

**4 Express Package Service** \* To most locations

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

**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.

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

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

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

**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**  **NO SIGNATURE REQUIRED**

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?**

**No** **04**  **Yes**  
As per attached  
Shipper's Declaration

**Yes**  
Shipper's Declaration  
not required.

**06**  **Dry Ice**  
Dry Ice, 3, UN 1845 \_\_\_\_\_ x \_\_\_\_\_ kg

**Cargo Aircraft Only**

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

**7 Payment Bill to:** Enter FedEx Acct. No. or Credit Card No. below.

**1**  **Sender**  
Acct. No. in Section  
will be billed.

**2**  **Recipient**

**3**  **Third Party**

**4**  **Credit Card**

**5**  **Cash/Check**

FedEx Acct. No. [Handwritten] Exp. Date: \_\_\_\_\_  
Credit Card No. [Handwritten]

Total Packages: [Handwritten] Total Weight: [Handwritten] lbs. Total Declared Value: \$ [Handwritten] Credit Card Auth: \_\_\_\_\_



8762 4637 7415

612

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

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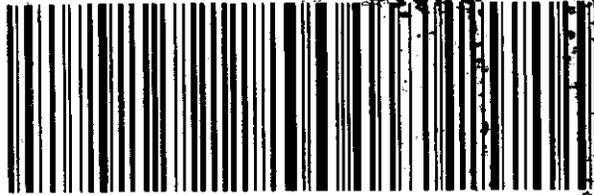
~~408254~~  
110825/1981

FedEx 1 of 2  
TRK# 8762 4637 7415  
0200  
## MASTER ##

THU - 18 AUG A2  
PRIORITY OVERNIGHT

**XH FTCA**

80524  
CO-US DEN



#B29288 08/17 50FG1/EEE7/F5F4

12  
1.6  
2

2.0

2

FedEx 2 of 2

MPS# 7955 4003 7769

Mstr# 8762 4637 7415

0200

THU - 18 AUG A2  
PRIORITY OVERNIGHT

**XH FTCA**

80524

CO-US DEN



#829288 08/17 50FG1/EEE7/FSF4

*[Handwritten signature]*

RT 615

A  
7769  
08.18

EZ

# Diesel Range Organics

Method SW8015MB

Method Blank

Lab Name: ALS Environmental -- FC

Work Order Number: 1108252

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 3Q11

Lab ID: EX110823-5MB

Sample Matrix: WATER

% Moisture: N/A

Date Collected: N/A

Date Extracted: 23-Aug-11

Date Analyzed: 26-Aug-11

Prep Batch: EX110823-5

QCBatchID: EX110823-5-1

Run ID: HCD110825-3A

Cleanup: NONE

Basis: N/A

File Name: F3F40387

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	0.5	0.5	0.17	U	

## Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	1.12		1.25	90	57 - 132

Data Package ID: HCD1108252-1

Date Printed: Monday, September 12, 2011

ALS Environmental -- FC

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LIMS Version: 6.525

# Diesel Range Organics

## Method SW8015MB

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1108252

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 3Q11

Field ID: 11677-E

Lab ID: 1108252-5

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 17-Aug-11

Date Extracted: 23-Aug-11

Date Analyzed: 26-Aug-11

Prep Method: METHOD

Prep Batch: EX110823-5

QC Batch ID: EX110823-5-1

Run ID: HCD110825-3A

Cleanup: NONE

Basis: As Received

File Name: F3F40402

Sample Aliquot: 160 ml

Final Volume: 4 ml

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 163

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

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.889		1.25	71	57 - 132

Data Package ID: HCD1108252-1

Date Printed: Monday, September 12, 2011

ALS Environmental -- FC

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LIMS Version: 6.525

# Diesel Range Organics

## Method SW8015MB

### Sample Results

Lab Name: ALS Environmental -- FC

Work Order Number: 1108252

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 3Q11

Field ID:	106081-E
Lab ID:	1108252-15

Sample Matrix: WATER

% Moisture: N/A

Date Collected: 17-Aug-11

Date Extracted: 23-Aug-11

Date Analyzed: 26-Aug-11

Prep Method: METHOD

Prep Batch: EX110823-5

QC Batch ID: EX110823-5-1

Run ID: HCD110825-3A

Cleanup: NONE

Basis: As Received

File Name: F3F40403

Sample Aliquot: 160 ml

Final Volume: 4 ml

Result Units: MG/L

Clean DF: 1

Analysis ReqCode: 163

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

### Surrogate Recovery

CASNO	Surrogate Analyte	Result	Flag	Spike Amount	Percent Recovery	Control Limits
84-15-1	O-TERPHENYL	0.924		1.25	74	57 - 132

Data Package ID: HCD1108252-1

Date Printed: Monday, September 12, 2011

ALS Environmental -- FC

Page 2 of 2

LIMS Version: 6.525

# Diesel Range Organics

## Method SW8015MB

### Laboratory Control Sample and Laboratory Control Sample Duplicate

Lab Name: ALS Environmental -- FC

Work Order Number: 1108252

Client Name: NMED Hazardous Waste Bureau

ClientProject ID: KAFB - BFF 3Q11

Lab ID: EX110823-5LCS	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 08/23/2011 Date Analyzed: 08/26/2011 Prep Method: METHOD	Prep Batch: EX110823-5 QCBatchID: EX110823-5-1 Run ID: HCD110825-3A Cleanup: NONE Basis: N/A File Name: F3F40388	Sample Aliquot: 160 ml Final Volume: 4 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCS Result	Reporting Limit	Result Qualifier	LCS % Rec.	Control Limits
68334-30-5	Diesel Range Organics	5	4.57	0.5		91	36 - 150%

Lab ID: EX110823-5LCSD	Sample Matrix: WATER % Moisture: N/A Date Collected: N/A Date Extracted: 08/23/2011 Date Analyzed: 08/26/2011 Prep Method: METHOD	Prep Batch: EX110823-5 QCBatchID: EX110823-5-1 Run ID: HCD110825-3A Cleanup: NONE Basis: N/A File Name: F3F40389	Sample Aliquot: 160 ml Final Volume: 4 ml Result Units: MG/L Clean DF: 1
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CASNO	Target Analyte	Spike Added	LCSD Result	Reporting Limit	Result Qualifier	LCSD % Rec.	RPD Limit	RPD
68334-30-5	Diesel Range Organics	5	4.53	0.5		91	20	1

### 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	82		82		57 - 132

Data Package ID: HCD1108252-1