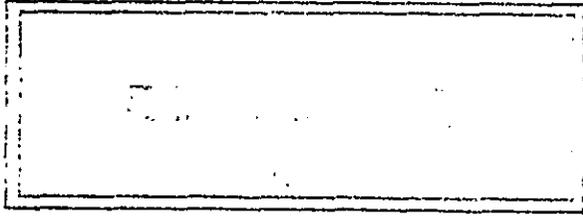


0046191

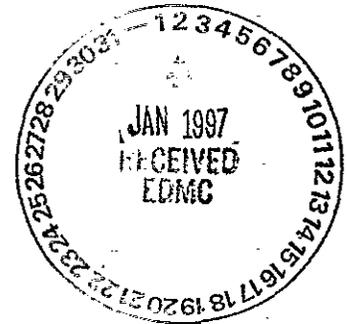


WESTINGHOUSE HANFORD COMPANY

Results of Analyses For:

ORGANICS
Case No. 12-052
(TMA/ARLI W.O. No. A3-12-052)

February 1, 1994



TMA Master Work Order N3-12-066

DON'T SAY IT --- Write It!

DATE: February 25, 1994

TO: B08NT9-TMA-661

FROM: Pat Reich

H4-19

Telephone: 372-2785

CC:

SUBJECT: DATA VALIDATION FOR THE 100-IU-1, RIVERLAND ERA SAMPLING PROJECT

THE VALIDATION REPORT FOR THIS DATA PACKAGE IS FILED IN B08NP7-TMA-559.

PAT REICH

000002

PAGE 1

TMA/Norcal

CHAIN OF CUSTODY

ORD # N3-12-066

RCVD: 12/22/93 DUE: 01/26/94

12/23/93 10:17:27

KEEP: 01/26/95 DISP: S

DASH SAMPLE IDENTIFICATION	STORED	TESTS for FRACTIONS with work in DEPT: SU and CATEGORY
01A-W BOBNV0	ARLI	! WH099
02A-W BOBNV3	ARLI	! WH099
03A-W BOBNV4	ARLI	! WH099
04A-W BOBNV5	ARLI	! WH099
05A-W BOBNV7	ARLI	! WH099
06A-W BOBNT9	ARLI	! WH099
06B-W BOBNT9 MS	ARLI	! WH099
06C-W BOBNT9 MSD	ARLI	! WH099

RELEASED BY	DATE	TRANSFERRED TO	DATE	RECEIVED BY	DATE
<i>kyamamoto</i>	<i>12-22-93</i>	<i>ARLI</i>	<i>12-22-93</i>	<i>P.S</i>	<i>12/23/93</i>
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

000003

U3-12-066

Chain of Custody

TMA/Norcal 2030 Wright Avenue / P.O. Box 4040 / Richmond, CA 94804-0040 / (415) 235-2633 / FAX (415) 235-0438

CLIENT ADDRESS		PROJECT		PARAMETERS												# CONTAINERS	DATE <u>12-22-93</u> PAGE <u> </u> OF <u> </u>				
TMA / ARLI		WES HANFORD																			
SAMPLERS (SIGNATURE)																SAMPLE TYPE OR MATRIX (e.g. water soil, filters, charcoal tube, asbestos, oil)	OBSERVATIONS, COMMENTS, VOLUMES, SPECIAL OR ADDITIONAL TESTS				
LOCATION	DATE	TIME	SAMPLE NO :	TPH	DIESEL	PHOS	TPH			TPH	TPH	TPH									
Riverbank	12-18-93		B08NVO	+	+		+												water	2	hard copy for
ERA			B08N V3	+	+		+													2	P.O. # on this
			B08N V4	+	+		+													2	set will be sent
			B08N V5	+	+		+													2	12-23-93
			B08N V7	+	+		+													2	
✓	✓		B08N T9	+	+		+												✓	2	

1) RELINQUISHED BY: Signature <i>Eyamamoto</i>		DATE <u>12/22/93</u>	2) RECEIVED BY: Signature <i>Payan Shadi</i>		DATE <u>12/23/93</u>	3) RELINQUISHED BY: Signature		DATE	4) RECEIVED BY: Signature		DATE <u>12</u>	TOTAL NUMBER OF CONTAINERS
Printed Name <u>ELBY YAMAMOTO</u>		TIME	Printed Name <u>PAYAN SHADI</u>		TIME <u>9:30</u>	Printed Name		TIME	Printed Name		TIME	METHOD OF SHIPMENT <u>Fed Ex</u>
Company <u>TMA / NORCAL</u>			Company <u>TMA ARLI</u>			Company			Company			SPECIAL SHIPMENT-HANDLING OR STORAGE REQUIREMENTS
5) RELINQUISHED BY: Signature		DATE	6) RECEIVED BY: Signature		DATE	7) RELINQUISHED BY: Signature		DATE	8) RECEIVED BY: Signature		DATE	
Printed Name		TIME	Printed Name		TIME	Printed Name		TIME	Printed Name		TIME	
Company			Company			Company			Company			

N3-12-066 000003

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations RIVERLAND ERA

Collection Date 12-18-93

Ice Chest No. 6WS103

Field Logbook No. EFL-111

Bill of Lading/Airbill No. 2573008245

Offsite Property No. W94-0-0190-6

Method of Shipment EMERY

Shipped to TMA

Possible Sample Hazards/Remarks NONE DETECTED

Sample Identification

B08NVO

1L; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

Field Transfer of Custody

Chain of Possession

(Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
<i>Sweeney Swancy</i>	12/21/93	1000	<i>[Signature]</i>	12-22-93	2:25

Final Sample Disposition

Disposal Method:

Disposed by:

Date/Time:

Comments:

Placed in Ref # 3B by LCS 12/18/93 1445

000003C

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator
 Company Contact **PH BUTCHER** Telephone (509) 376-5045
 Project Designation/Sampling Locations **RIVERLAND ERA** Collection Date **12/18/93**
 Ice Chest No. **6WS103** Field Logbook No. **EEL-1111**
 Bill of Lading/Airbill No. **251900824T** Offsite Property No. **W94-D-01906e**
 Method of Shipment **EMERY**
 Shipped to **TMA**
 Possible Sample Hazards/Remarks **NONE DETECTED**

Sample Identification

B08N V3
 1L; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

Field Transfer of Custody Chain of Possession (Sign and Print Names)

Relinquished By	Date	Time	Received By	Date	Time
<i>K.D. Lee</i>	12/20/93	0737	<i>L. Sweeney</i>	12/20/93	0737
<i>L. Sweeney</i>	12/21/93	1000	<i>J. Smith</i>	12-22-93	2:25

Final Sample Disposition

Disposal Method: Disposed by: Date/Time:
 Comments: **samples stored in frig. # 3B by K.D. Lee 12/18/93 1445**

0000038

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator *R. Dannelson*
 Company Contact **PH BUTCHER**
 Project Designation/Sampling Locations **RIVERLAND ERA**
 Ice Chest No. *6NS103*
 Bill of Lading/Airbill No. *251900824T*
 Method of Shipment **EMERY**
 Shipped to **TMA**
 Possible Sample Hazards/Remarks **NONE DETECTED**

Telephone **(509) 376-5045**
 Collection Date *12-20-93*
 Field Logbook No. *EFL 1096.2*
 Offsite Property No. *W94-0-0190-6*

Sample Identification

B08NV4

2; IL; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

Fridge # 3C 12-20-93 KD 1420

Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>Karl K. Knecht</i>	<i>12-21-93</i>	<i>0725</i>	<i>AJ Simpson</i>	<i>12/21/93</i>	<i>0728</i>
<i>AJ Simpson</i>	<i>12/24/93</i>	<i>102</i>	<i>[Signature]</i>	<i>12-22-93</i>	<i>2:25</i>
Final Sample Disposition					
Disposal Method:		Disposed by:		Date/Time:	
Comments:					

0000039

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator *K. Donnelson*
 Company Contact PH BUTCHER
 Project Designation/Sampling Locations RIVERLAND ERA
 Ice Chest No. *GWS103*
 Bill of Lading/Airbill No. *251900824T*
 Method of Shipment EMERY
 Shipped to TMA
 Possible Sample Hazards/Remarks NONE DETECTED

Telephone (509) 376-5045
 Collection Date *12-20-93*
 Field Logbook No. *EFL-1096-2*
 Offsite Property No. *W94-0-0190-6*

Sample Identification

B08N V5

12; 1L; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

Fridge # 3C KA 12-20-93 1419

[] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>Karl F. Donnelson</i>	<i>12-21-93</i>	<i>0725</i>	<i>A. Simpson</i>	<i>12/21/93</i>	<i>0728</i>
<i>A. Simpson</i>	<i>12/21/93</i>	<i>1001</i>	<i>John ...</i>	<i>12-22-93</i>	<i>2:25</i>
Final Sample Disposition					
Disposal Method:		Disposed by:		Date/Time:	
Comments:					

000003I

Westinghouse Hanford Company	CHAIN OF CUSTODY
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Custody Form Initiator	
Company Contact PH BUTCHER	Telephone (509) 376-5045
Project Designation/Sampling Locations RIVERLAND ERA	Collection Date 12/18/93
Ice Chest No. 6WS103	Field Logbook No. RFL-1111
Bill of Lading/Airbill No. 251900824T	Offsite Property No. W94-0-0190-6
Method of Shipment EMERY	
Shipped to TMA	
Possible Sample Hazards/Remarks NONE DETECTED	

Sample Identification

B08N ✓
✓; 1L; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

[] Field Transfer of Custody		Chain of Possession		(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time
<i>K.O. Lee</i>	12/20/93	0737	<i>Shirley L. Swaney</i>	12-20-93	0737
<i>Shirley L. Swaney</i>	12/21/93	1000	<i>Frank [unclear]</i>	12-22-93	2:25

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:
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Comments: *Samples stored in frgs. #3B by K.O. Lee 12/18/93 1445*

000003K

Westinghouse
Hanford Company

CHAIN OF CUSTODY

Custody Form Initiator

Company Contact PH BUTCHER

Telephone (509) 376-5045

Project Designation/Sampling Locations RIVERLAND ERA

Collection Date 12-18-93

Ice Chest No. GWS103

Field Logbook No. EFL-1111

Bill of Lading/Airbill No. 287900824T

Offsite Property No. W94-0-0120-6

Method of Shipment EMERY

Shipped to TMA

Possible Sample Hazards/Remarks NONE DETECTED

Sample Identification

B08NT9

2; 1L; G; WATER; TPH-DIESEL RANGE, TPH->DIESEL RANGE (H2SO4 to pH<2)

Field Transfer of Custody		Chain of Possession			(Sign and Print Names)	
Relinquished By	Date	Time	Received By	Date	Time	
<i>Sweeney, Sweeney</i>	12/21/93	1022	<i>[Signature]</i>	12-22-93	2:25	

Final Sample Disposition

Disposal Method:	Disposed by:	Date/Time:

Comments:
Placed in Ref. 3B by LCS 12/18/93 - 1445

000004

SAMPLE LOG-IN SHEET WAC

LAB NAME : TMA/ARLI

PAGE : 1 OF 1

RECEIVED BY (PRINT NAME): RAYAN STADI

LOG-IN-DATE : 12/23/93

RECEIVED BY (SIGNATURE): [Signature]

ICE CHEST NO. <u>SML 315</u>	CORRESPONDING			REMARKS: CONDITION OF SAMPLE SHIPMENT, ETC
	EPA SAMPLE #	SAMPLE TAG #	ASSIGNED LAB #	

REMARKS:		<u>B08NV7</u>	<u>A312-052</u>	
1. Custody Seal(s) <u>Present / Absent*</u> <u>Intact / Broken</u>		<u>B08NV5</u>		
2. Custody Seal Nos:		<u>B08NT9</u>		
		<u>B08NV0</u>		
		<u>B08NV3</u>		
		<u>B08NV4</u>		
3. Chain of Custody Records <u>Present</u> / Absent*				
4. Traffic Reports or Packing List <u>Present</u> / Absent*				
5. Airbill <u>Airbill / Sticker</u> <u>Present / Absent*</u>				
6. Airbill No.: <u>8430656352</u>				
7. Sample Tags <u>Present</u> / Absent*				
8. Sample Tag Numbers <u>Listed</u> / Not Listed on Chain of Custody				
9. Sample Condition: <u>Intact</u> / Broken* / Leaking				
10. Does information on custody records, traffic reports, and sample tags agree? <u>Yes</u> / No*				
11. Date Received at Lab: <u>12/23/93</u>				
12. Temp of Ice chest <u>4</u> °C				
13. Time Received: <u>9:30</u>				

SAMPLE TRANSFER

Fraction: _____	_____	_____	_____
Area #: _____	_____	_____	_____
By: _____	_____	_____	_____
On: _____	_____	_____	_____

* Contact SMO and attach record of resolution

Reviewed By: _____ Logbook No.: _____

Date: _____ Logbook Page No.: _____

CASE NARRATIVE

000008

LABORATORY : TMA/ARLI

CASE : 12-052

CONTRACT ID : WESTINGHOUSE HANFORD COMPANY

SDG RECEIPT DATE : December 22, 1993

1.0 DESCRIPTION OF CASE :

Six water samples were analyzed for Total Petroleum Hydrocarbons (Diesel Range) according to USEPA SW-846 Method 8015 Modified.

2.0 SAMPLE LIST :

<u>WESTINGHOUSE ID</u>	<u>LAB ID</u>	<u>ANALYSIS REQUESTED</u>	<u>MATRIX</u>
B08NV0	A3-12-052-01A	TPH	WATER
B08NV0 MS	A3-12-052-01B	TPH	WATER
B08NV0 MSD	A3-12-052-01C	TPH	WATER
B08NV3	A3-12-052-02A	TPH	WATER
B08NV4	A3-12-052-03A	TPH	WATER
B08NV5	A3-12-052-04A	TPH	WATER
B08NV7	A3-12-052-05A	TPH	WATER
B08NT9	A3-12-052-06A	TPH	WATER

TPH by 8015 Modified

3.0 COMMENTS :

3.1 SHIPPING AND DOCUMENTATION :

All of the samples were received unbroken and properly documented.

3.2 ANALYSIS

3.2.1 TOTAL PETROLEUM HYDROCARBONS ANALYSIS COMMENTS :

SEQUENCE NOTES :

The sequence was started on 11/18/93 and was analyzed according to the SW-846 Method 8015M. The initial calibration consisted of five different levels of the Diesel standard that ranged from 209 to 2094 ppm. The continuing calibration at approximately 1000 ppm was injected before and after the samples were analyzed, in order to verify the instrument stability. The %RSD in the initial calibration and the %D in the continuing calibration were below their 20% and 15% limits, respectively.

LOW LEVEL WATER :

The samples were extracted and analyzed within the SW-846 holding times. Approximately 100mL of each sample were extracted with Methylene Chloride, and the sample extracts were then concentrated to 5mL, to be analyzed by GC/FID.

000009

Sample B08NV0 was spiked with approximately 50 mg/L of Diesel standard for the MS and the MSD. The matrix spike recoveries in both the MS and MSD samples were at 76% and 70%, respectively, whereas the blank spike had a 64% recovery.

All of the results were within the QC criteria specified by the SW-846 Method 8015M.

We certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. Release of the data in this hardcopy data package is authorized by the Laboratory Manager or his designee, as verified by the following signature.

Nicole Roth
Nicole Roth 1/31/94
Program Manager

Maureen Parrish
Maureen Parrish 1/31/94
Program Manager

000012

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NT9

FRACTION 06A

TEST CODE 8015MS

NAME EPA 8015M EXTRACT.

Date & Time Collected 12/18/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

Form I

000014

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NVO FRACTION 01A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/18/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

000016

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NV3

FRACTION 02A

TEST CODE 8015MS

NAME EPA 8015M EXTRACT.

Date & Time Collected 12/18/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

Form I

000018

Received: 12/22/93

TMA Inc. REPORT
Results by Sample

Work Order # A3-12-052

SAMPLE ID B08NV4 FRACTION 03A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/20/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

Form I

000020

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NV5

FRACTION 04A

TEST CODE 8015MS

NAME EPA 8015M EXTRACT.

Date & Time Collected 12/20/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

Form I

000022

Received: 12/22/93

TMA Inc. REPORT
Results by Sample

Work Order # A3-12-052

SAMPLE ID B08NV7 FRACTION 05A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/18/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

000012

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NT9

FRACTION 06A

TEST CODE 8015MS

NAME EPA 8015M EXTRACT.

Date & Time Collected 12/18/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

2/17/94 - NV
[Signature]

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

Form I

000014

Received: 12/22/93

TMA Inc. REPORT
Results by Sample

Work Order # A3-12-052

SAMPLE ID B08NVO FRACTION 01A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/18/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mg/L

2/17/94 - NW
(Signature)

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

000016

TMA Inc.

REPORT

Work Order # A3-12-052

Received: 12/22/93

Results by Sample

SAMPLE ID B08NV3

FRACTION 02A TEST CODE 8015MS NAME EPA 8015M EXTRACT.

Date & Time Collected 12/18/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

2/17/94-NV
(Signature)

ND = Not detected at the specified limits

Form I

000018

Received: 12/22/93

TMA Inc. REPORT
Results by Sample

Work Order # A3-12-052

SAMPLE ID B08NV4 FRACTION 03A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/20/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mcg/L

2/17/94 - NW
(Signature)

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits

000020

Received: 12/22/93

TMA Inc.

REPORT

Work Order # A3-12-052

Results by Sample

SAMPLE ID B08NV5

FRACTION 04A TEST CODE 8015MS NAME EPA 8015M EXTRACT.

Date & Time Collected 12/20/93

Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID

Date Analyzed: 01/22/94

Dilution factor: 1.00

Concentration Units: mg/L

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

2/17/94 - NV
(Signature)

ND = Not detected at the specified limits

Form I

000022

TMA Inc. REPORT
Results by Sample

Work Order # A3-12-052

Received: 12/22/93

SAMPLE ID B08NV7 FRACTION 05A TEST CODE 8015MS NAME EPA 8015M EXTRACT.
Date & Time Collected 12/18/93 Category _____

MODIFIED 8015 - EXTRACTABLE FUEL HYDROCARBONS

Matrix: LIQUID
Date Analyzed: 01/22/94
Dilution factor: 1.00
Concentration Units: mg/L

2/17/94-NW
(Signature)

Compound	Sample Result	PQL
Kerosene Range	NA	NA
C10 - C16 Jet Fuel Range	NA	NA
C9 - C22 Diesel Range	ND	2
Hydraulic Range	NA	NA

ND = Not detected at the specified limits