



FOSTER WHEELER ENVIRONMENTAL CORPORATION

August 23, 2002
FWSEA-2002-GEO017

Time Oil Company
Mr. Scott B. Sloan
2737 West Commodore Way
Seattle, WA 98199-1233

Subject: Rapid Response Soil Excavation at western edge of parking area, located at 2737 West Commodore Way

Dear Mr. Sloan:

Foster Wheeler Environmental Corporation collected samples for the Time Oil Company during the excavation of petroleum impacted soil at the western edge of the parking area located at 2737 West Commodore Way. The impacted soil was the result of a minor hydraulic fluid leak on a truck, resulting in a release that impacted surface soil. The extent of petroleum impacted soil was limited. An estimate of the quantity of hydraulic fluid released or the duration of the release could not be made due to lack of information. The purpose of this letter report is to describe the field methods and present the analytical results.

Excavation

Soil excavation activities were conducted June 20, 2002. The soil was excavated from the western edge of the parking area by Custom Backhoe and Dumptruck Service, Incorporated. Soil was excavated with a backhoe and placed on a lined and bermed stockpile to the south of the excavation. The area excavated was approximately 60 feet long, 5 feet wide, and up to 4 feet deep in areas. Most of the excavation ranged from 2 inches to 8 inches deep. Approximately 13 cubic yards of soil were excavated. The stockpile area was covered at the end of the excavation with plastic sheeting. The soil was removed from the property by the excavation contractor and taken to TPS for recycling. The excavation was backfilled with imported material.

Soil Sampling

Soil samples were collected directly from the center of the excavation bucket using the sample jar supplied by the analytical laboratory. The soil samples were analyzed by North Creek Analytical, Incorporated, and analyzed for:

- Fuel identification using the Northwest Total Petroleum Hydrocarbon (NWTPH) Hydrocarbon Identification (HCID) method
- Gasoline using the NWTPH – Gx Method
- Benzene, toluene, ethylbenzene, and xylenes (BTEX) using the United States Environmental Protection Agency (EPA) Method 8021B
- Diesel range hydrocarbons and lube oil range hydrocarbons using NWTPH-Dx Method;



- Hydraulic oil range hydrocarbons using a site-specific standard and silica gel cleanup with the NWTPH-Dx Method; and
- Total lead using EPA 6000/7000 series

In addition to the soil sampling, a sample of the hydraulic fluid that was released was collected and used by the laboratory as a standard. Soil samples from the excavation were analyzed for hydraulic oil range hydrocarbons and quantified using the site-specific standard.

Nine soil samples were collected: six from discrete locations in the excavation and three from the stockpile. The samples collected and locations are listed below:

- Sample ID 062002-1 south end of the excavation
- Sample ID 062002-2 approximately 20 feet north of 062002-1
- Sample ID 062002-3 approximately 20 feet north of 062002-2
- Sample ID 062002-4 north end of the excavation
- Sample ID 062002-5 west end of the stockpile
- Sample ID 062002-6 center of the stockpile
- Sample ID 062002-7 east end of the stockpile
- Sample ID 062002-8 south end of the excavation, approximately 4 feet deep
- Sample ID 062002-9 near 062002-2, approximately 4 feet deep

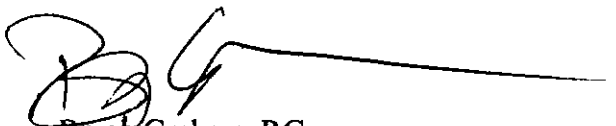
Analytical Results

Table 1 provides the analytical results for the soil samples. Analytical Data sheets are included as an attachment to this letter report.

The hydraulic fluid was released at the south end of the excavation and appeared to collect towards the center (near sample locations 062002-2 and 062002-9) of the excavation. The excavation samples showed concentrations of Hydraulic Oil Range Hydrocarbon ranging from 133 mg/Kg (062002-4) to 430 mg/Kg (062002-1).

The Washington State Department of Ecology's Model Toxics Control Act (MTCA) does not include soil cleanup levels specifically for hydraulic fluid. MTCA does include cleanup levels for gasoline range organics, diesel range organics, heavy oils, and mineral oils. Since hydraulic fluid falls between the diesel range organics and heavy oils, those cleanup values were used to determine if sufficient soil had been excavated. The MTCA Method A Cleanup Level for unrestricted soils is 2,000 mg/kg for diesel range organics and heavy oils. The samples (062002-1 through -04) from the excavation were below the MTCA Method A Cleanup Level

Sincerely,
Foster Wheeler Environmental Corporation



Bryan Graham, RG
Project Manager



Table 1 - Analytical Results.

Sample ID	NWTPH-HCID							NWTPH-Gx - BTEX					NWTPH-Dx (without Acid/Sil Gel Clean Up)		Semivolatle Petroleum Products NWTPH-Dx (with Acid Sil Gel Clean Up)	Total Metals
	Gx Range Hydrocarbons	Kerosene Range Hydrocarbons	Diesel Range Hydrocarbons	Insulating Oil Range Hydrocarbons	Heavy Fuel Range Hydrocarbons	Lube Oil Range Hydrocarbons	Gasoline Range Hydrocarbons	Benzene	Toluene	Ethylbenzene	Xylenes (Total)	Diesel Range Hydrocarbons	Lube Oil Range Hydrocarbons			
062002-1	--	--	--	--	--	--	--	--	--	--	--	--	--	430		Lead
062002-2	--	--	--	--	--	--	--	--	--	--	--	--	--	< 25.0		--
062002-3	--	--	--	--	--	--	--	--	--	--	--	--	--	319		--
062002-4	--	--	--	--	--	--	--	--	--	--	--	--	--	133		--
062002-5	--	--	--	--	--	--	717	< 0.150	< 0.250	< 0.250	3.62	3,750	5,050	--		46.6
062002-6	--	--	--	--	--	--	161	< 0.0300	0.0760	0.126	1.45	6,530	13,900	--		71.8
062002-7	--	--	--	--	--	--	43	< 0.0300	< 0.0500	< 0.0500	0.341	8,150	22,100	--		94
062002-8	ND	DET	ND	ND	ND	ND	--	--	--	--	--	--	--	--		--
062002-9	ND	ND	DET	ND	ND	ND	--	--	--	--	--	--	--	--		--

Notes

Units - mg/Kg

-- No sample analyzed

ND - Not detected

DET - Detected



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541.383.9310 fax 541.382.7588

26 June 2002

Bryan Graham
Foster Wheeler Environmental Corporation
12100 NE 195th St
Bothell, WA/USA 98011
RE: Rapid Response

Enclosed are the results of analyses for samples received by the laboratory on 06/20/02 13:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Amar Gill
Project Manager



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Foster Wheeler Environmental Corporation
12100 NE 195th St
Bothell WA/USA, 98011

Project: Rapid Response
Project Number: Not Provided
Project Manager: Bryan Graham

Reported:
06/26/02 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
062002-1	B2F0509-01	Soil	06/20/02 10:00	06/20/02 13:30
062002-2	B2F0509-02	Soil	06/20/02 10:05	06/20/02 13:30
062002-3	B2F0509-03	Soil	06/20/02 10:10	06/20/02 13:30
062002-4	B2F0509-04	Soil	06/20/02 10:15	06/20/02 13:30
062002-5	B2F0509-05	Soil	06/20/02 10:50	06/20/02 13:30
062002-6	B2F0509-06	Soil	06/20/02 10:55	06/20/02 13:30
062002-7	B2F0509-07	Soil	06/20/02 11:00	06/20/02 13:30
062002-8	B2F0509-08	Soil	06/20/02 11:30	06/20/02 13:30
062002-9	B2F0509-09	Soil	06/20/02 11:50	06/20/02 13:30

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Amar Gill, Project Manager

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 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

**Hydrocarbon Identification by Washington DOE Method NWTPH-HCID
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-8 (B2F0509-08) Soil Sampled: 06/20/02 11:30 Received: 06/20/02 13:30										
Gx Range Hydrocarbons	ND	20.0		mg/kg dry	1	2F21046	06/21/02	06/23/02	NWTPH-HCID	
Kerosene Range Hydrocarbons	DET	50.0		"	"	"	"	"	"	
Diesel Range Hydrocarbons	ND	50.0		"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Surrogate: 2-FBP	106 %	50-150				"	"	"	"	
Surrogate: Octacosane	96.6 %	50-150				"	"	"	"	
062002-9 (B2F0509-09) Soil Sampled: 06/20/02 11:50 Received: 06/20/02 13:30										
Gx Range Hydrocarbons	ND	20.0		mg/kg dry	1	2F21046	06/21/02	06/23/02	NWTPH-HCID	
Kerosene Range Hydrocarbons	ND	50.0		"	"	"	"	"	"	
Diesel Range Hydrocarbons	DET	50.0		"	"	"	"	"	"	
Insulating Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Heavy Fuel Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Lube Oil Range Hydrocarbons	ND	100		"	"	"	"	"	"	
Surrogate: 2-FBP	112 %	50-150				"	"	"	"	
Surrogate: Octacosane	98.0 %	50-150				"	"	"	"	

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 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-5 (B2F0509-05) Soil Sampled: 06/20/02 10:50 Received: 06/20/02 13:30										
Gasoline Range Hydrocarbons	717	25.0		mg/kg dry	5	2F21034	06/21/02	06/24/02	NWTPH-Gx/8021B	G-01
Benzene	ND	0.150		"	"	"	"	"	"	
Toluene	ND	0.250		"	"	"	"	"	"	
Ethylbenzene	ND	0.250		"	"	"	"	"	"	
Xylenes (total)	3.62	0.500		"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	%	59-125				"	"	"	"	S-02
Surrogate: 4-BFB (PID)	158 %	64-125				"	"	"	"	S-04
062002-6 (B2F0509-06) Soil Sampled: 06/20/02 10:55 Received: 06/20/02 13:30										
Gasoline Range Hydrocarbons	161	5.00		mg/kg dry	1	2F21034	06/21/02	06/24/02	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0300		"	"	"	"	"	"	
Toluene	0.0760	0.0500		"	"	"	"	"	"	
Ethylbenzene	0.126	0.0500		"	"	"	"	"	"	
Xylenes (total)	1.45	0.100		"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	175 %	59-125				"	"	"	"	S-04
Surrogate: 4-BFB (PID)	115 %	64-125				"	"	"	"	
062002-7 (B2F0509-07) Soil Sampled: 06/20/02 11:00 Received: 06/20/02 13:30										
Gasoline Range Hydrocarbons	43.0	5.00		mg/kg dry	1	2F21034	06/21/02	06/24/02	NWTPH-Gx/8021B	G-01
Benzene	ND	0.0300		"	"	"	"	"	"	
Toluene	ND	0.0500		"	"	"	"	"	"	
Ethylbenzene	ND	0.0500		"	"	"	"	"	"	
Xylenes (total)	0.341	0.100		"	"	"	"	"	"	I-06
Surrogate: 4-BFB (FID)	106 %	59-125				"	"	"	"	
Surrogate: 4-BFB (PID)	99.3 %	64-125				"	"	"	"	

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up)
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-5 (B2F0509-05) Soil Sampled: 06/20/02 10:50 Received: 06/20/02 13:30										
Diesel Range Hydrocarbons	3750	400		mg/kg dry	40	2F24032	06/24/02	06/26/02	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	5050	1000		"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-138				"	"	"	"	S-01
Surrogate: Octacosane	64.4 %	56-139				"	"	"	"	
062002-6 (B2F0509-06) Soil Sampled: 06/20/02 10:55 Received: 06/20/02 13:30										
Diesel Range Hydrocarbons	6530	1000		mg/kg dry	100	2F24032	06/24/02	06/26/02	NWTPH-Dx	D-06
Lube Oil Range Hydrocarbons	13900	2500		"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-138				"	"	"	"	S-01
Surrogate: Octacosane	%	56-139				"	"	"	"	S-01
062002-7 (B2F0509-07) Soil Sampled: 06/20/02 11:00 Received: 06/20/02 13:30										
Diesel Range Hydrocarbons	8150	1000		mg/kg dry	100	2F24032	06/24/02	06/26/02	NWTPH-Dx	D-09
Lube Oil Range Hydrocarbons	22100	2500		"	"	"	"	"	"	
Surrogate: 2-FBP	%	50-138				"	"	"	"	S-01
Surrogate: Octacosane	%	56-139				"	"	"	"	S-01

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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**Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-1 (B2F0509-01) Soil Sampled: 06/20/02 10:00 Received: 06/20/02 13:30										
Hydraulic Oil Range Hydrocarbons	430	250		mg/kg dry	10	2F20025	06/20/02	06/21/02	NWTPH-Dx	A-01
Surrogate: 2-FBP	113 %	50-150				"	"	"	"	
Surrogate: Octacosane	75.8 %	50-150				"	"	"	"	
062002-2 (B2F0509-02) Soil Sampled: 06/20/02 10:05 Received: 06/20/02 13:30										
Hydraulic Oil Range Hydrocarbons	ND	25.0		mg/kg dry	1	2F20025	06/20/02	06/21/02	NWTPH-Dx	A-01
Surrogate: 2-FBP	114 %	50-150				"	"	"	"	
Surrogate: Octacosane	78.5 %	50-150				"	"	"	"	
062002-3 (B2F0509-03) Soil Sampled: 06/20/02 10:10 Received: 06/20/02 13:30										
Hydraulic Oil Range Hydrocarbons	319	25.0		mg/kg dry	1	2F20025	06/20/02	06/21/02	NWTPH-Dx	
Surrogate: 2-FBP	64.1 %	50-150				"	"	"	"	
Surrogate: Octacosane	79.6 %	50-150				"	"	"	"	
062002-4 (B2F0509-04) Soil Sampled: 06/20/02 10:15 Received: 06/20/02 13:30										
Hydraulic Oil Range Hydrocarbons	133	25.0		mg/kg dry	1	2F20025	06/20/02	06/21/02	NWTPH-Dx	
Surrogate: 2-FBP	63.1 %	50-150				"	"	"	"	
Surrogate: Octacosane	84.6 %	50-150				"	"	"	"	

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Foster Wheeler Environmental Corporation
 12100 NE 195th St
 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

Total Metals by EPA 6000/7000 Series Methods
North Creek Analytical - Bothell

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-5 (B2F0509-05) Soil Sampled: 06/20/02 10:50 Received: 06/20/02 13:30										
Lead	46.6	0.649		mg/kg dry	1	2F21023	06/21/02	06/25/02	EPA 6020	
062002-6 (B2F0509-06) Soil Sampled: 06/20/02 10:55 Received: 06/20/02 13:30										
Lead	71.8	0.685		mg/kg dry	1	2F21023	06/21/02	06/24/02	EPA 6020	
062002-7 (B2F0509-07) Soil Sampled: 06/20/02 11:00 Received: 06/20/02 13:30										
Lead	94.0	0.581		mg/kg dry	1	2F21023	06/21/02	06/24/02	EPA 6020	

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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**Physical Parameters by APHA/ASTM/EPA Methods
 North Creek Analytical - Bothell**

Analyte	Result	Reporting		Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
		Limit								
062002-1 (B2F0509-01) Soil	Sampled: 06/20/02 10:00		Received: 06/20/02 13:30							
Dry Weight	81.3	1.00		%	1	2F20028	06/20/02	06/21/02	BSOPSPL003R07	
062002-2 (B2F0509-02) Soil	Sampled: 06/20/02 10:05		Received: 06/20/02 13:30							
Dry Weight	79.5	1.00		%	1	2F20028	06/20/02	06/21/02	BSOPSPL003R07	
062002-3 (B2F0509-03) Soil	Sampled: 06/20/02 10:10		Received: 06/20/02 13:30							
Dry Weight	93.0	1.00		%	1	2F20028	06/20/02	06/21/02	BSOPSPL003R07	
062002-4 (B2F0509-04) Soil	Sampled: 06/20/02 10:15		Received: 06/20/02 13:30							
Dry Weight	96.1	1.00		%	1	2F20028	06/20/02	06/21/02	BSOPSPL003R07	
062002-5 (B2F0509-05) Soil	Sampled: 06/20/02 10:50		Received: 06/20/02 13:30							
Dry Weight	83.8	1.00		%	1	2F24043	06/24/02	06/25/02	BSOPSPL003R07	
062002-6 (B2F0509-06) Soil	Sampled: 06/20/02 10:55		Received: 06/20/02 13:30							
Dry Weight	91.1	1.00		%	1	2F24043	06/24/02	06/25/02	BSOPSPL003R07	
062002-7 (B2F0509-07) Soil	Sampled: 06/20/02 11:00		Received: 06/20/02 13:30							
Dry Weight	94.4	1.00		%	1	2F24043	06/24/02	06/25/02	BSOPSPL003R07	
062002-8 (B2F0509-08) Soil	Sampled: 06/20/02 11:30		Received: 06/20/02 13:30							
Dry Weight	77.9	1.00		%	1	2F24043	06/24/02	06/25/02	BSOPSPL003R07	
062002-9 (B2F0509-09) Soil	Sampled: 06/20/02 11:50		Received: 06/20/02 13:30							
Dry Weight	79.5	1.00		%	1	2F24043	06/24/02	06/25/02	BSOPSPL003R07	

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation
 12100 NE 195th St
 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

Hydrocarbon Identification by Washington DOE Method NWTPH-HCID - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2F21046: Prepared 06/21/02 Using HCID (WA)

Blank (2F21046-BLK1)

Gx Range Hydrocarbons	ND	20.0	mg/kg							
Kerosene Range Hydrocarbons	ND	50.0	"							
Diesel Range Hydrocarbons	ND	50.0	"							
Insulating Oil Range Hydrocarbons	ND	100	"							
Heavy Fuel Oil Range Hydrocarbons	ND	100	"							
Lube Oil Range Hydrocarbons	ND	100	"							
Surrogate: 2-FBP	DET		"	160		103	50-150			
Surrogate: Octacosane	DET		"	160		96.9	50-150			

Duplicate (2F21046-DUP1)

Source: B2F0539-01

Gx Range Hydrocarbons	ND	20.0	mg/kg dry		ND				50	
Kerosene Range Hydrocarbons	DET	50.0	"		DET			17.3	50	
Diesel Range Hydrocarbons	ND	50.0	"		ND				50	
Insulating Oil Range Hydrocarbons	ND	100	"		ND				50	
Heavy Fuel Oil Range Hydrocarbons	ND	100	"		ND				50	
Lube Oil Range Hydrocarbons	ND	100	"		ND			8.75	50	
Surrogate: 2-FBP	DET		"	170		116	50-150			
Surrogate: Octacosane	DET		"	170		98.2	50-150			

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Foster Wheeler Environmental Corporation
 12100 NE 195th St
 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

**Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
---------	--------	-----------------	-------	-------------	---------------	------	-------------	-----	-----------	-------

Batch 2F21034: Prepared 06/21/02 Using EPA 5030B (P/T)

Blank (2F21034-BLK1)

Gasoline Range Hydrocarbons	ND	5.00	mg/kg							
Benzene	ND	0.0300	"							
Toluene	ND	0.0500	"							
Ethylbenzene	ND	0.0500	"							
Xylenes (total)	ND	0.100	"							
Surrogate: 4-BFB (FID)	3.71		"	4.00		92.8	59-125			
Surrogate: 4-BFB (PID)	4.18		"	4.00		104	64-125			

LCS (2F21034-BS1)

Gasoline Range Hydrocarbons	27.3	5.00	mg/kg	27.5		99.3	80-120			
Benzene	0.379	0.0300	"	0.340		111	80-120			
Toluene	1.88	0.0500	"	2.06		91.3	80-120			
Ethylbenzene	0.494	0.0500	"	0.485		102	80-120			
Xylenes (total)	2.41	0.100	"	2.44		98.8	80-120			
Surrogate: 4-BFB (FID)	4.08		"	4.00		102	59-125			
Surrogate: 4-BFB (PID)	4.21		"	4.00		105	64-125			

LCS Dup (2F21034-BSD1)

Gasoline Range Hydrocarbons	28.8	5.00	mg/kg	27.5		105	80-120	5.35	40	
Benzene	0.371	0.0300	"	0.340		109	80-120	2.13	40	
Toluene	1.82	0.0500	"	2.06		88.3	80-120	3.24	40	
Ethylbenzene	0.479	0.0500	"	0.485		98.8	80-120	3.08	40	
Xylenes (total)	2.32	0.100	"	2.44		95.1	80-120	3.81	40	
Surrogate: 4-BFB (FID)	4.20		"	4.00		105	59-125			
Surrogate: 4-BFB (PID)	3.99		"	4.00		99.8	64-125			

Matrix Spike (2F21034-MS1)

Source: B2F0539-09

Gasoline Range Hydrocarbons	25.5	5.00	mg/kg dry	29.2	ND	84.1	53-120			
Benzene	0.375	0.0300	"	0.361	ND	104	64-130			
Toluene	1.85	0.0500	"	2.19	ND	84.0	57-108			
Ethylbenzene	0.486	0.0500	"	0.515	ND	91.9	72-130			
Xylenes (total)	2.37	0.100	"	2.60	ND	91.2	73-130			
Surrogate: 4-BFB (FID)	3.62		"	4.25		85.2	59-125			
Surrogate: 4-BFB (PID)	4.07		"	4.25		95.8	64-125			

North Creek Analytical - Bothell

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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Volatile Petroleum Products and BTEX by NWTPH-Gx and EPA 8021B - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source	%REC		RPD	Limit	Notes
		Limit			Result	%REC	Limits			

Batch 2F21034: Prepared 06/21/02 Using EPA 5030B (P/T)

Matrix Spike Dup (2F21034-MSD1)

Source: B2F0539-09

Gasoline Range Hydrocarbons	28.2	5.00	mg/kg dry	29.2	ND	93.3	53-120	10.1	40	
Benzene	0.374	0.0300	"	0.361	ND	104	64-130	0.267	40	
Toluene	1.84	0.0500	"	2.19	ND	83.6	57-108	0.542	40	
Ethylbenzene	0.484	0.0500	"	0.515	ND	91.5	72-130	0.412	40	
Xylenes (total)	2.36	0.100	"	2.60	ND	90.8	73-130	0.423	40	
Surrogate: 4-BFB (FID)	4.18		"	4.25		98.4	59-125			
Surrogate: 4-BFB (PID)	4.05		"	4.25		95.3	64-125			

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Foster Wheeler Environmental Corporation
 12100 NE 195th St
 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

**Semivolatile Petroleum Products by NWTPH-Dx (w/o Acid/Silica Gel Clean-up) - Quality Control
 North Creek Analytical - Bothell**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2F24032: Prepared 06/24/02 Using EPA 3550B

Blank (2F24032-BLK1)

Mineral Oil Range Hydrocarbons	ND	25.0	mg/kg							
Diesel Range Hydrocarbons	ND	10.0	"							
Lube Oil Range Hydrocarbons	ND	25.0	"							
Surrogate: 2-FBP	8.97		"	10.7		83.8	50-138			
Surrogate: Octacosane	9.49		"	10.7		88.7	56-139			

LCS (2F24032-BS1)

Diesel Range Hydrocarbons	67.1	10.0	mg/kg	66.7		101	72-120			
Surrogate: 2-FBP	10.1		"	10.7		94.4	50-138			

LCS Dup (2F24032-BSD1)

Diesel Range Hydrocarbons	64.8	10.0	mg/kg	66.7		97.2	72-120	3.49	40	
Surrogate: 2-FBP	9.48		"	10.7		88.6	50-138			

Duplicate (2F24032-DUP1)

Source: B2F0544-03

Mineral Oil Range Hydrocarbons	ND	25.0	mg/kg dry		ND				50	
Diesel Range Hydrocarbons	ND	10.0	"		ND			27.5	40	
Lube Oil Range Hydrocarbons	ND	25.0	"		ND			4.60	40	
Surrogate: 2-FBP	11.5		"	12.6		91.3	50-138			
Surrogate: Octacosane	11.0		"	12.6		87.3	56-139			

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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Identified Semivolatile Petroleum Products by NWTPH-Dx with Acid/Silica Gel Clean-up - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 2F20025: Prepared 06/20/02 Using EPA 3550B

Blank (2F20025-BLK1)

Hydraulic Oil Range Hydrocarbons	ND	25.0	mg/kg							
Surrogate: 2-FBP	6.73		"	10.7		62.9	50-150			
Surrogate: Octacosane	6.57		"	10.7		61.4	50-150			

LCS (2F20025-BS1)

Diesel Range Hydrocarbons	57.2	10.0	mg/kg	66.7		85.8	50-150			
Surrogate: 2-FBP	8.48		"	10.7		79.3	50-150			

LCS Dup (2F20025-BSD1)

Diesel Range Hydrocarbons	59.0	10.0	mg/kg	66.7		88.5	50-150	3.10	50	
Surrogate: 2-FBP	8.34		"	10.7		77.9	50-150			

Duplicate (2F20025-DUP1)

Source: B2F0402-05

Lube Oil Range Hydrocarbons	630	125	mg/kg dry		614			2.57	50	
Surrogate: 2-FBP	0.00		"	12.4			50-150			S-01
Surrogate: Octacosane	15.2		"	12.4		123	50-150			

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Foster Wheeler Environmental Corporation
 12100 NE 195th St
 Bothell WA/USA, 98011

Project: Rapid Response
 Project Number: Not Provided
 Project Manager: Bryan Graham

Reported:
 06/26/02 16:02

Total Metals by EPA 6000/7000 Series Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 2F21023: Prepared 06/21/02 Using EPA 3050B										
Blank (2F21023-BLK1)										
Lead	ND	0.847	mg/kg							
LCS (2F21023-BS1)										
Lead	66.0	0.781	mg/kg	62.5		106	80-120			
LCS Dup (2F21023-BSD1)										
Lead	61.5	0.735	mg/kg	58.8		105	80-120	7.06	20	
Matrix Spike (2F21023-MS1) Source: B2F0401-02										
Lead	94.5	0.694	mg/kg dry	65.0	35.4	90.9	70-130			
Matrix Spike Dup (2F21023-MSD1) Source: B2F0401-02										
Lead	97.8	0.649	mg/kg dry	60.8	35.4	103	70-130	3.43	20	
Post Spike (2F21023-PS1) Source: B2F0401-02										
Lead	859	3.16	mg/kg dry	740	35.4	111	80-120			

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Foster Wheeler Environmental Corporation 12100 NE 195th St Bothell WA/USA, 98011	Project: Rapid Response Project Number: Not Provided Project Manager: Bryan Graham	Reported: 06/26/02 16:02
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Physical Parameters by APHA/ASTM/EPA Methods - Quality Control
North Creek Analytical - Bothell

Analyte	Result	Reporting	Units	Spike Level	Source Result	%REC		RPD	RPD Limit	Notes
		Limit				%REC	Limits			

Batch 2F20028: Prepared 06/20/02 Using Dry Weight

Blank (2F20028-BLK1)

Dry Weight	100	1.00	%							
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Batch 2F24043: Prepared 06/24/02 Using Dry Weight

Blank (2F24043-BLK1)

Dry Weight	100	1.00	%							
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Bothell WA/USA, 98011

Project: Rapid Response
Project Number: Not Provided
Project Manager: Bryan Graham

Reported:
06/26/02 16:02

Notes and Definitions

- A-01 Hydrocarbons in the Kerosene range are also present in sample, quantitation against Kerosene may be required.
- D-06 The sample chromatographic pattern does not resemble the fuel standard used for quantitation.
- D-09 Results in the diesel organics range are primarily due to overlap from a heavy oil range product.
- G-01 Results reported for the gas range are primarily due to overlap from diesel range hydrocarbons.
- I-06 The analyte concentration may be artificially elevated due to coeluting compounds or components.
- S-01 The surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interferences.
- S-02 The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample.
- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- DET Analyte DETECTED
- ND Analyte NOT DETECTED at or above the reporting limit
- NR Not Reported
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference

North Creek Analytical - Bothell

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Quantitation Report

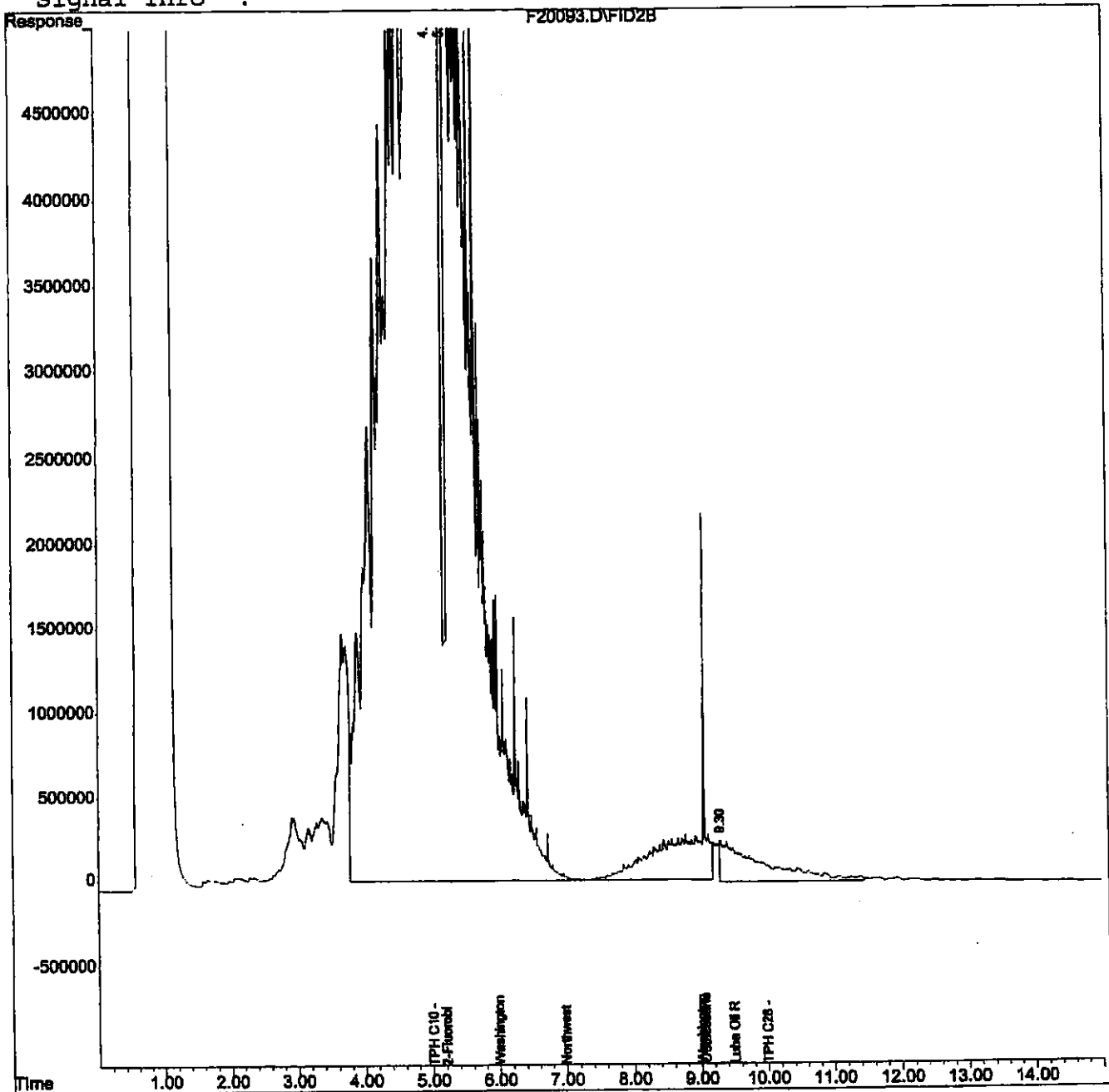
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Acq On : 6-21-02 12:25:32 AM
Sample : B2F0509-01
Misc : 10x w sg sp
IntFile : SURR.E
Quant Time: Jun 21 0:40 2002

Vial: 54
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 1550219B.RES

Quant Method : C:\HPCHEM\1\METHODS\1550219B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Tue Jun 04 13:02:38 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

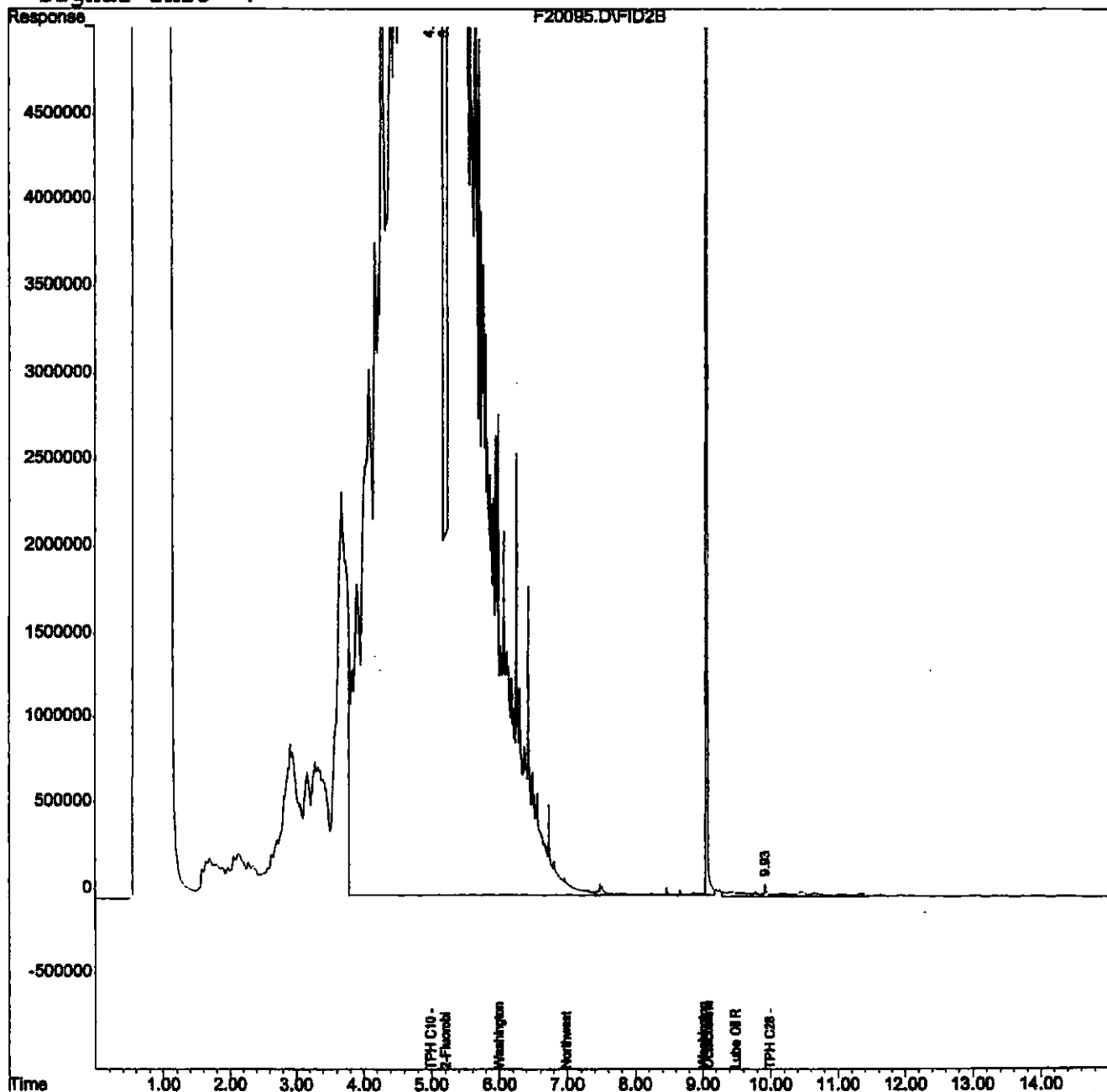
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Sample : B2F0509-02
Misc : 1x w sg sp
IntFile : SURR.E

Vial: 56
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Time: Jun 21 1:03 2002 Quant Results File: 15502!9B.RES

Quant Method : C:\HPCHEM\1\METHODS\15502!9B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Tue Jun 04 13:02:38 2002
Response via : Multiple Level Calibration
DataAcq Meth : 15502!9A.M

Volume Inj. :
Signal Phase :
Signal Info :



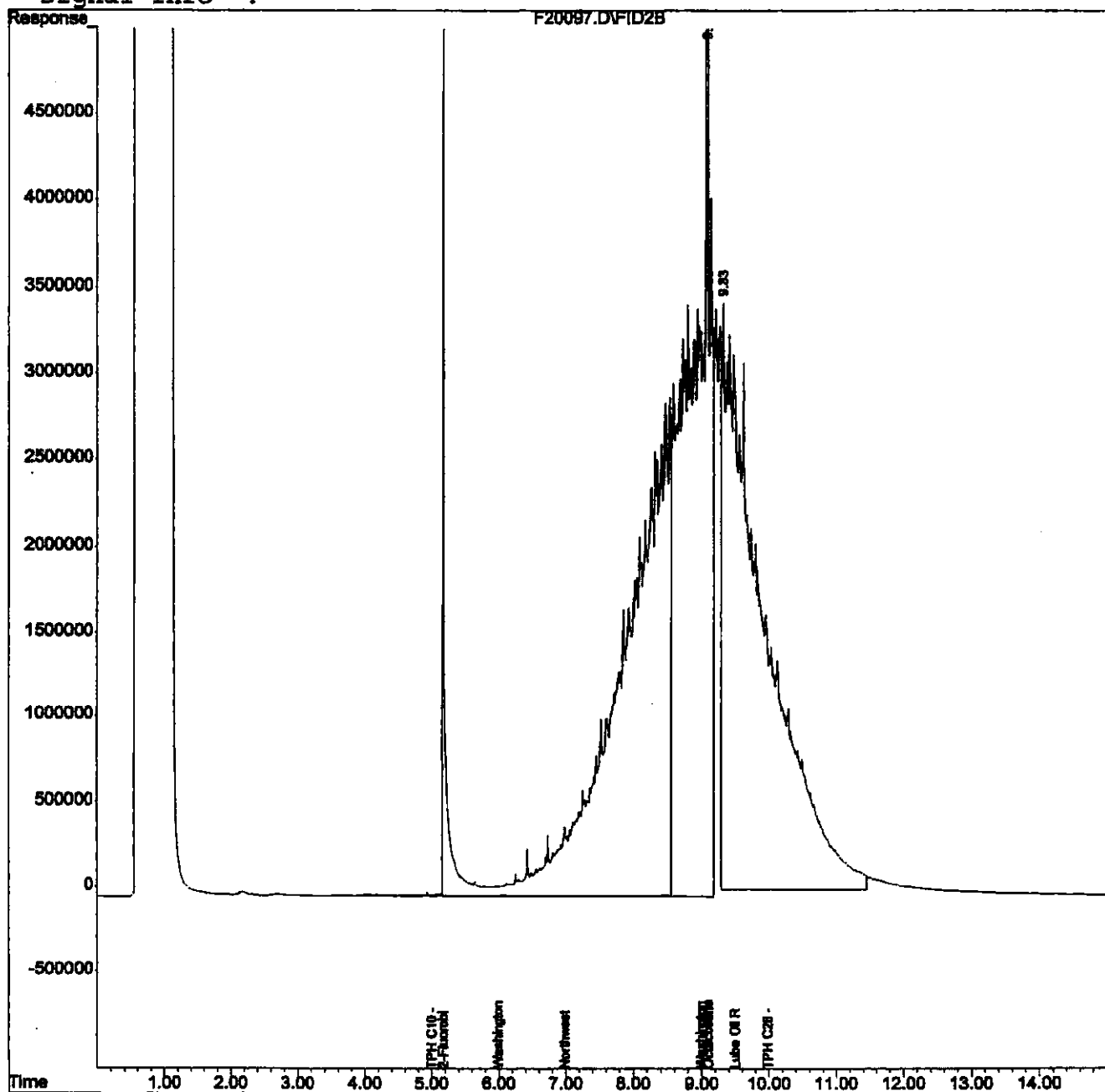
Quantitation Report

Data File : C:\HPCHEM\1\DATA.SEC\F20097.D
Acq On : 6-21-02 1:10:44 AM
Sample : B2F0509-03
Misc : 1x w sg sp
IntFile : SURR.E
Quant Time: Jun 21 1:26 2002

Vial: 58
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 1550219B.RES
Quant Method : C:\HPCHEM\1\METHODS\1550219B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Tue Jun 04 13:02:38 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

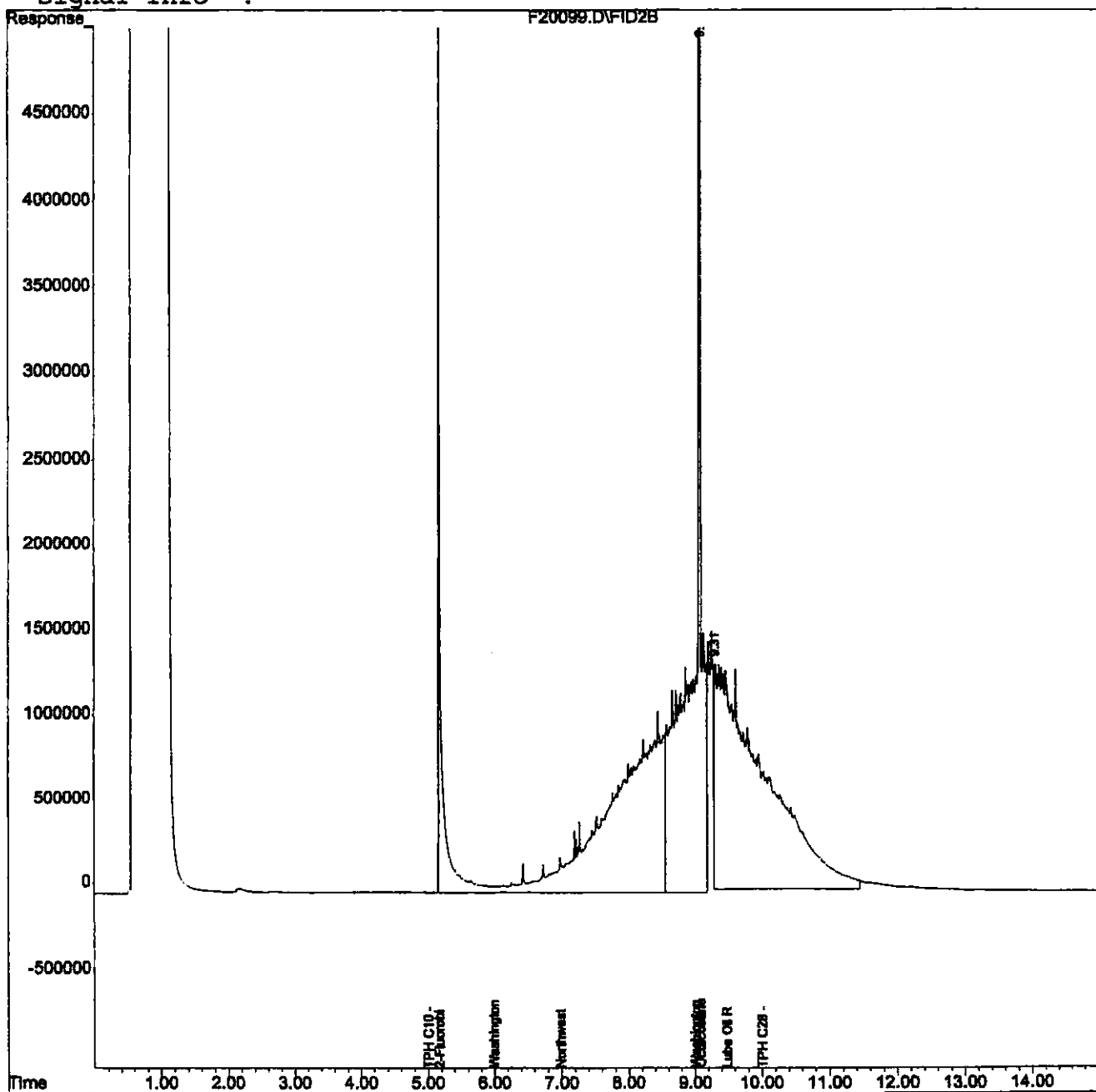
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Sample : B2F0509-04
Misc : 1x w sg sp
IntFile : SURR.E
Quant Time: Jun 21 1:48 2002

Vial: 59
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 1550219B.RES

Quant Method : C:\HPCHEM\1\METHODS\1550219B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Tue Jun 04 13:02:38 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :



Quantitation Report

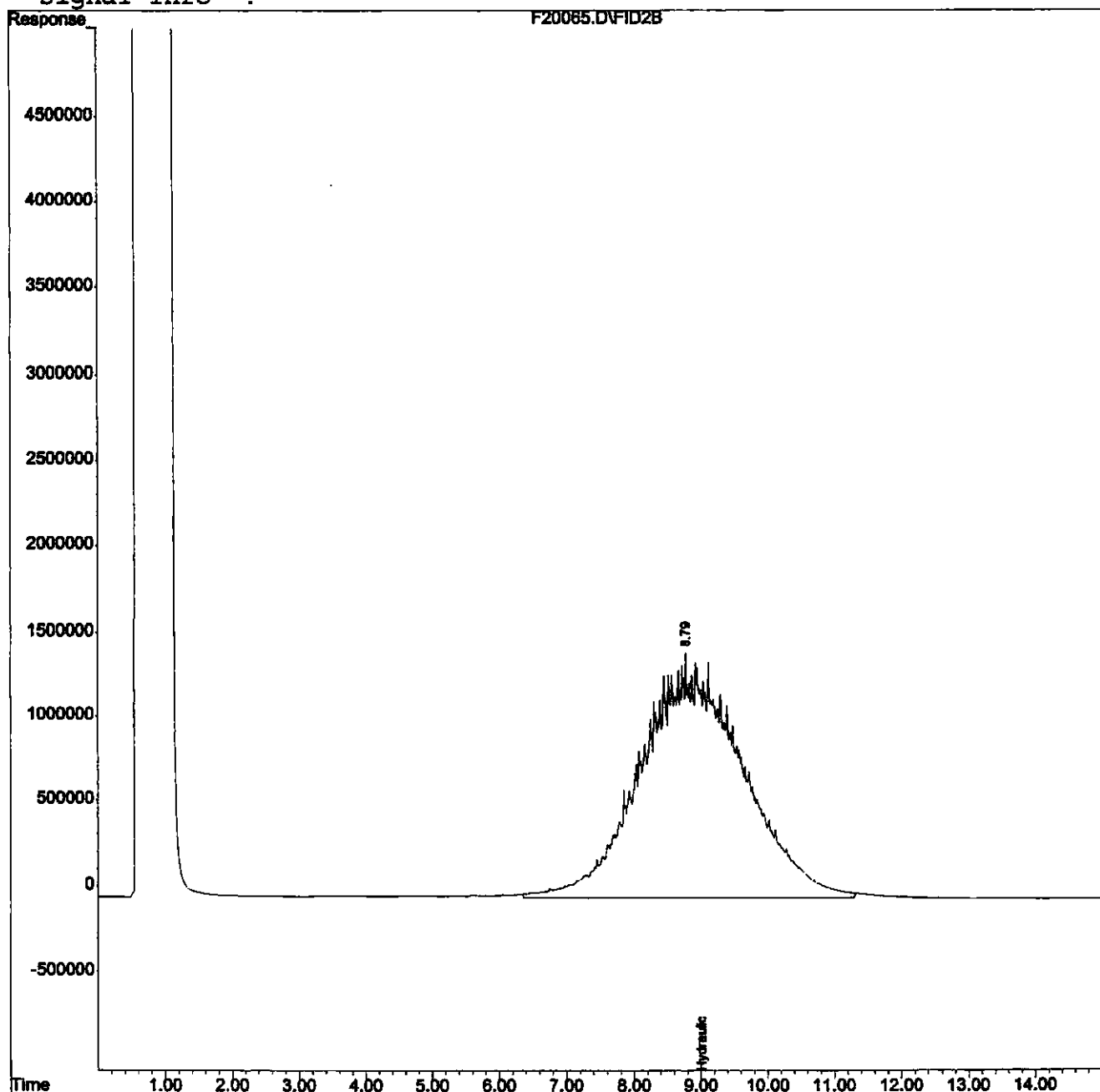
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Sample : Hydraulic Oil 1500
Misc : Calibration
IntFile : SURR.E
Quant Time: Jun 21 8:08 2002

Vial: 36
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 17202#9B.RES

Quant Method : C:\HPCHEM\1\METHODS\17202#9B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Fri Jun 21 08:06:42 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :



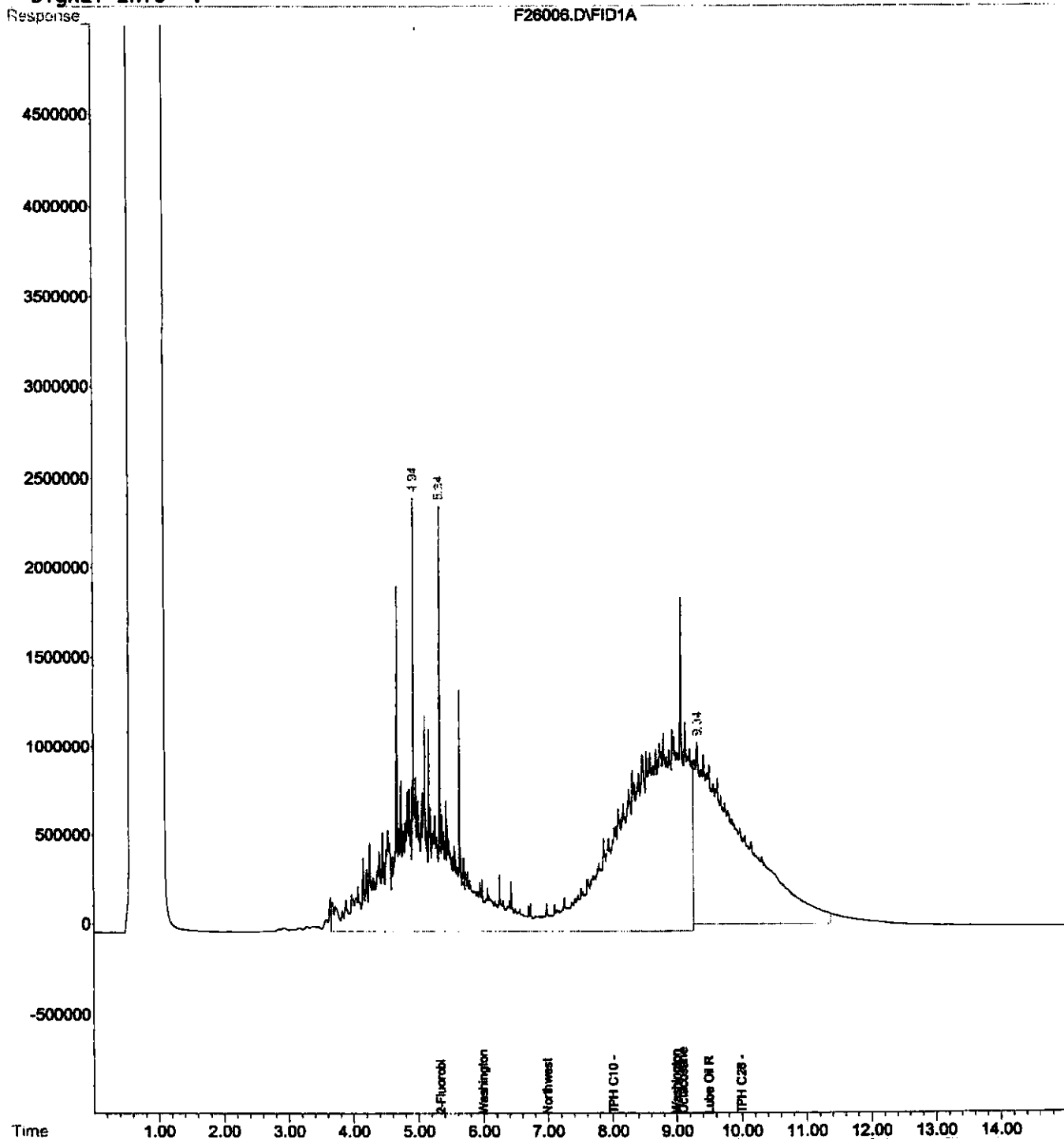
Quantitation Report

Data File : C:\HPCHEM\1\DATA\F26006.D
Acq On : 6-26-02 8:01:33 AM
Sample : b2f0509-05
Misc : 40x s nw re1
IntFile : SURR.E
Quant Time: Jun 26 8:16 2002

Vial: 6
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Method : C:\HPCHEM\1\METHODS\15502!9A.M (Chemstation Integrator)
Title : TPH-D Front
Last Update : Tue Jun 04 12:37:24 2002
Response via : Multiple Level Calibration
DataAcq Meth : 15502!9A.M

Volume Inj. :
Signal Phase :
Signal Info :

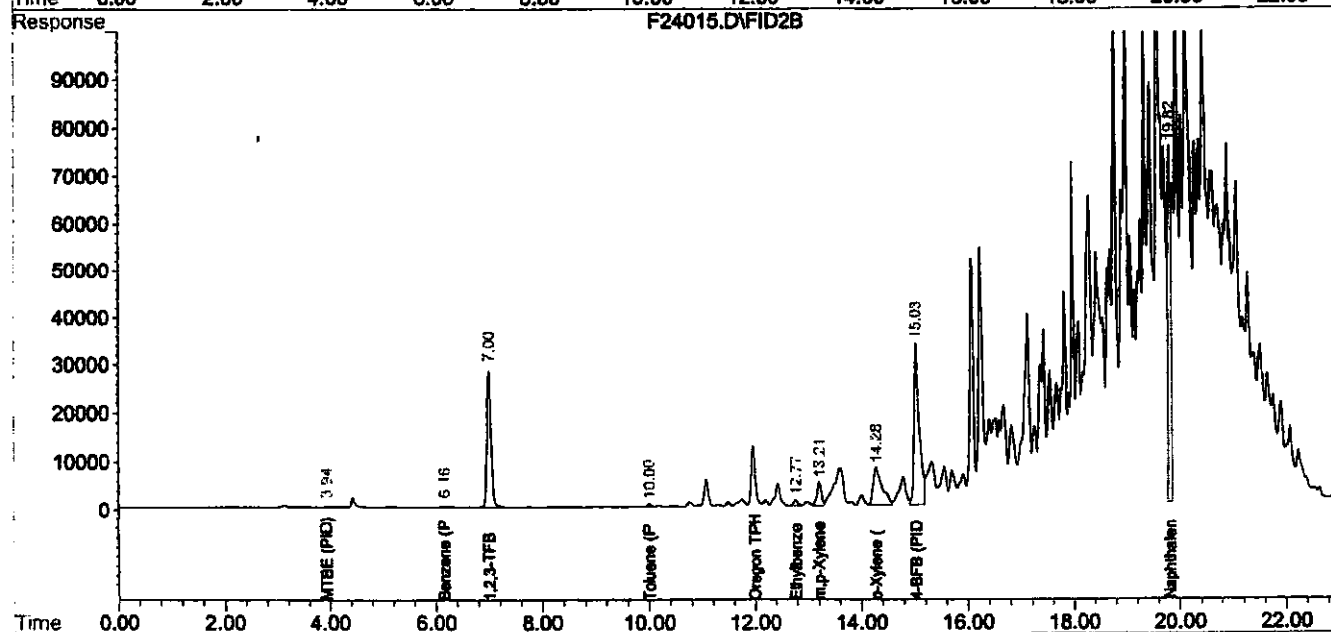
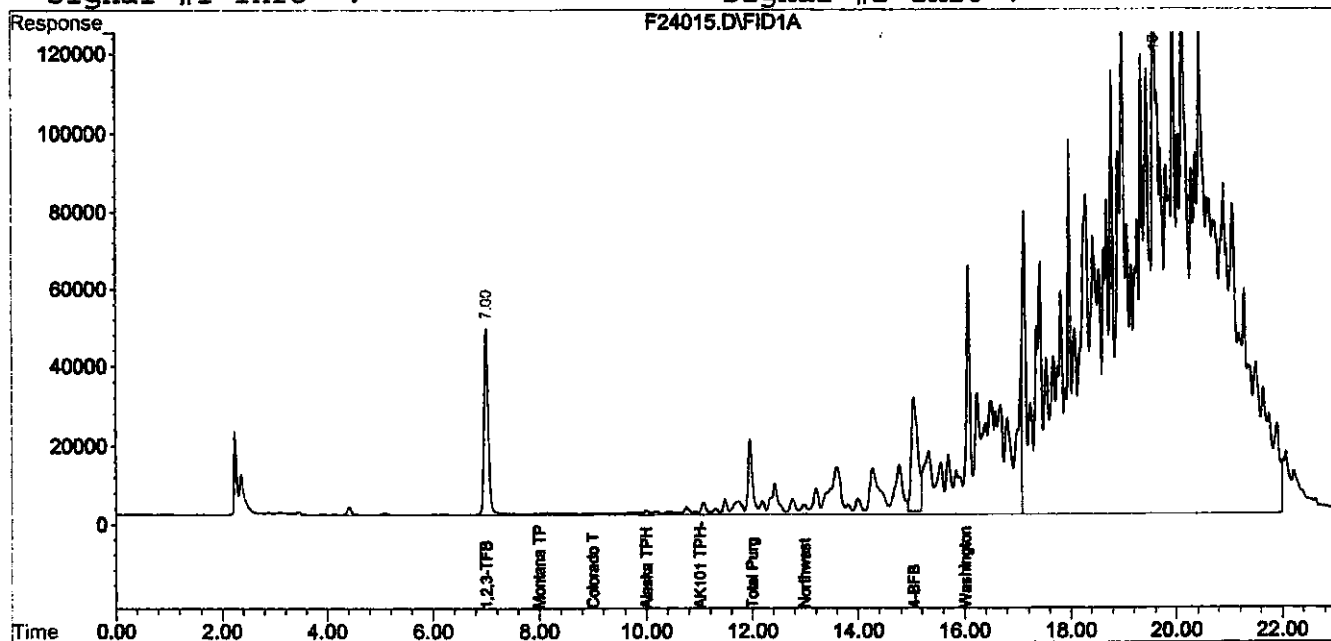


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\062402\F24015.D\FID1A.CH Vial: 15
Signal #2 : C:\HPCHEM\1\DATA\062402\F24015.D\FID2B.CH
Acq On : 24 Jun 2002 13:58 Operator: aa
Sample : b2f0509-05 r1 Inst : GC #2
Misc : 5x 20 ul Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Jun 24 14:22 2002 Quant Results File: TEST0602.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST0602.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Tue Jun 18 15:09:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : TEST0602.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report

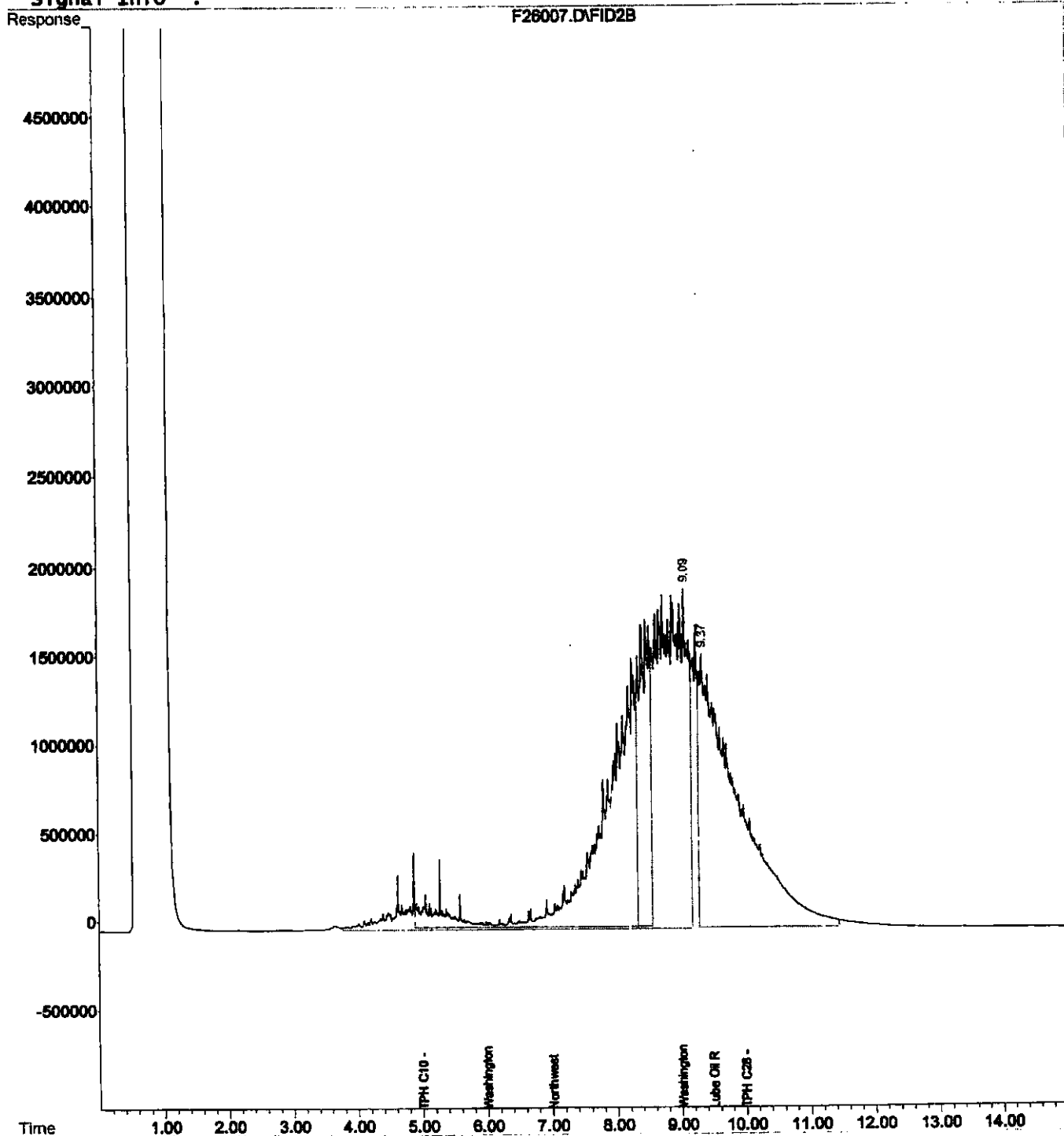
Data File : C:\HPCHEM\1\DATA.SEC\F26007.D
Acq On : 6-26-02 8:24:38 AM
Sample : b2f0509-06
Misc : 100x s nw rel
IntFile : SURR.E
Quant Time: Jun 26 8:43 2002

Vial: 7
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 1550219B.RES

Quant Method : C:\HPCHEM\1\METHODS\1550219B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Tue Jun 04 13:02:38 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :

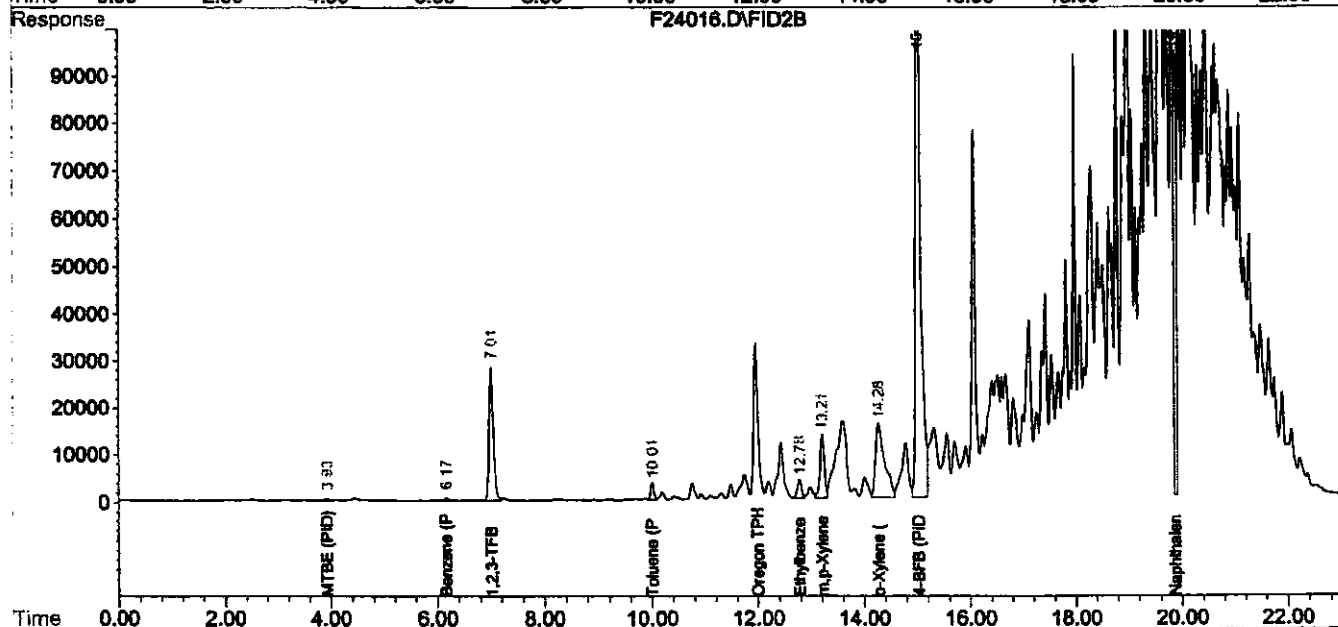
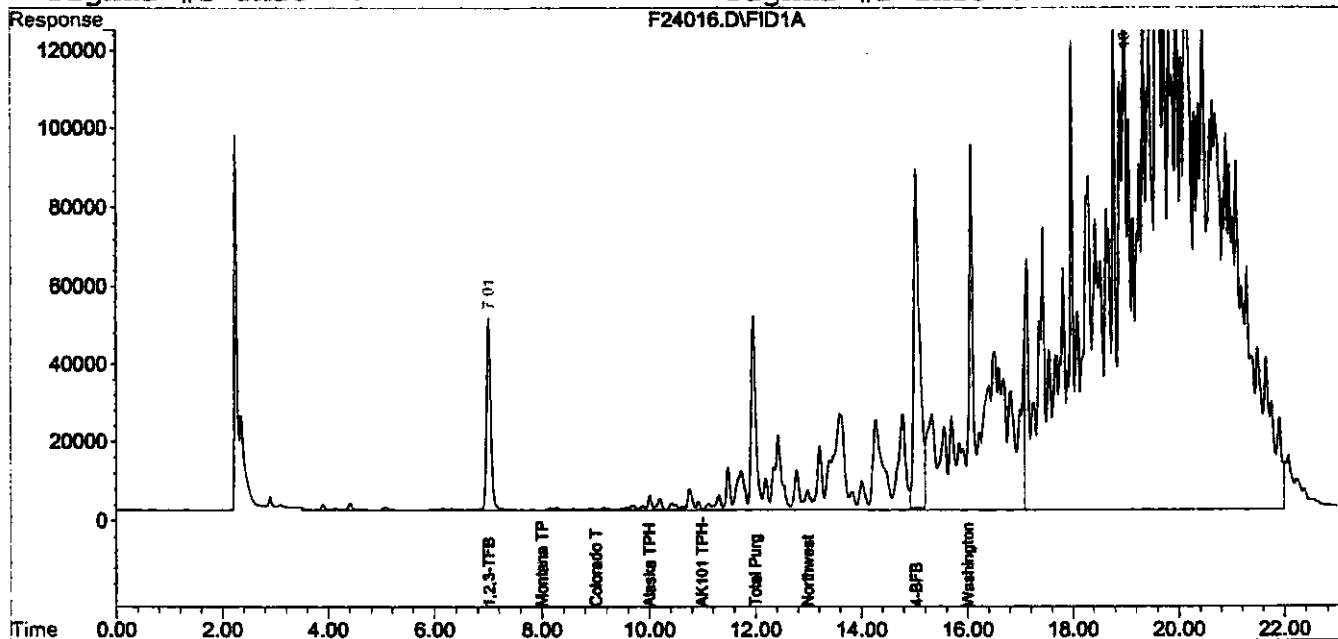


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\062402\F24016.D\FID1A.CH Vial: 16
Signal #2 : C:\HPCHEM\1\DATA\062402\F24016.D\FID2B.CH
Acq On : 24 Jun 2002 14:27 Operator: aa
Sample : b2f0509-06 r1 Inst : GC #2
Misc : 1x 100 ul Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Jun 24 14:51 2002 Quant Results File: TEST0602.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST0602.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Tue Jun 18 15:09:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : TEST0602.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report

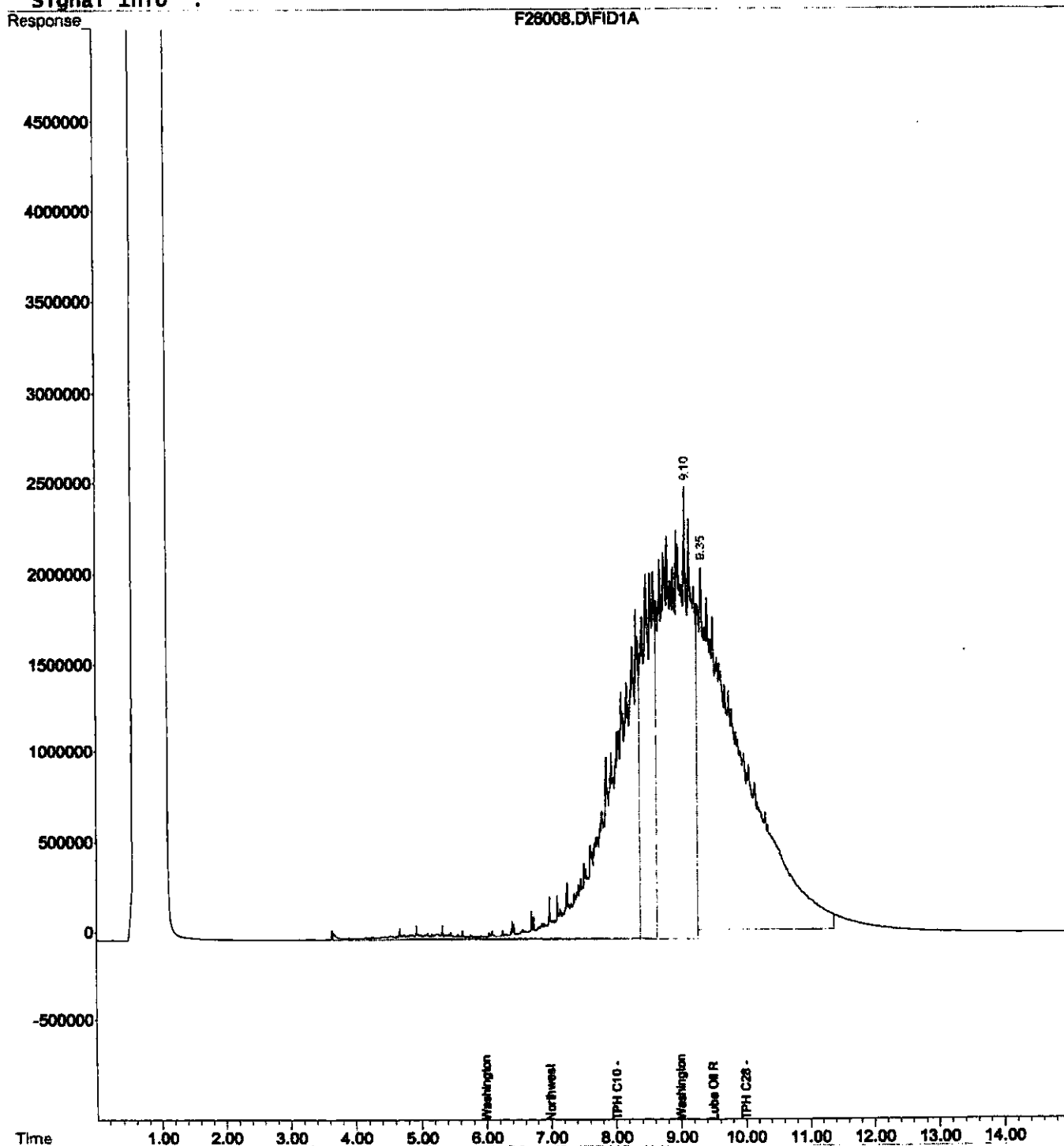
Data File : C:\HPCHEM\1\DATA\F26008.D
Acq On : 6-26-02 8:24:38 AM
Sample : b2f0509-07
Misc : 100x s nw rel
IntFile : SURR.E
Quant Time: Jun 26 8:43 2002

Vial: 8
Operator: EDL
Inst : GC #9
Multiplr: 1.00

Quant Results File: 1550219A.RES

Quant Method : C:\HPCHEM\1\METHODS\1550219A.M (Chemstation Integrator)
Title : TPH-D Front
Last Update : Tue Jun 04 12:37:24 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :

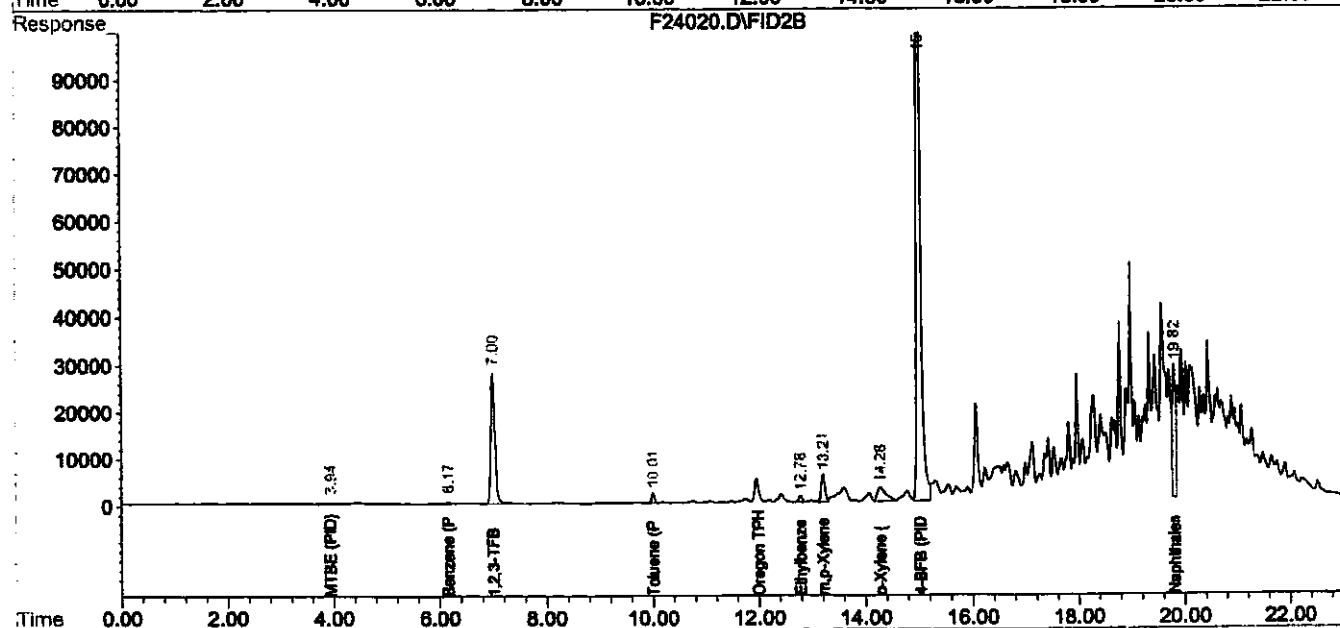
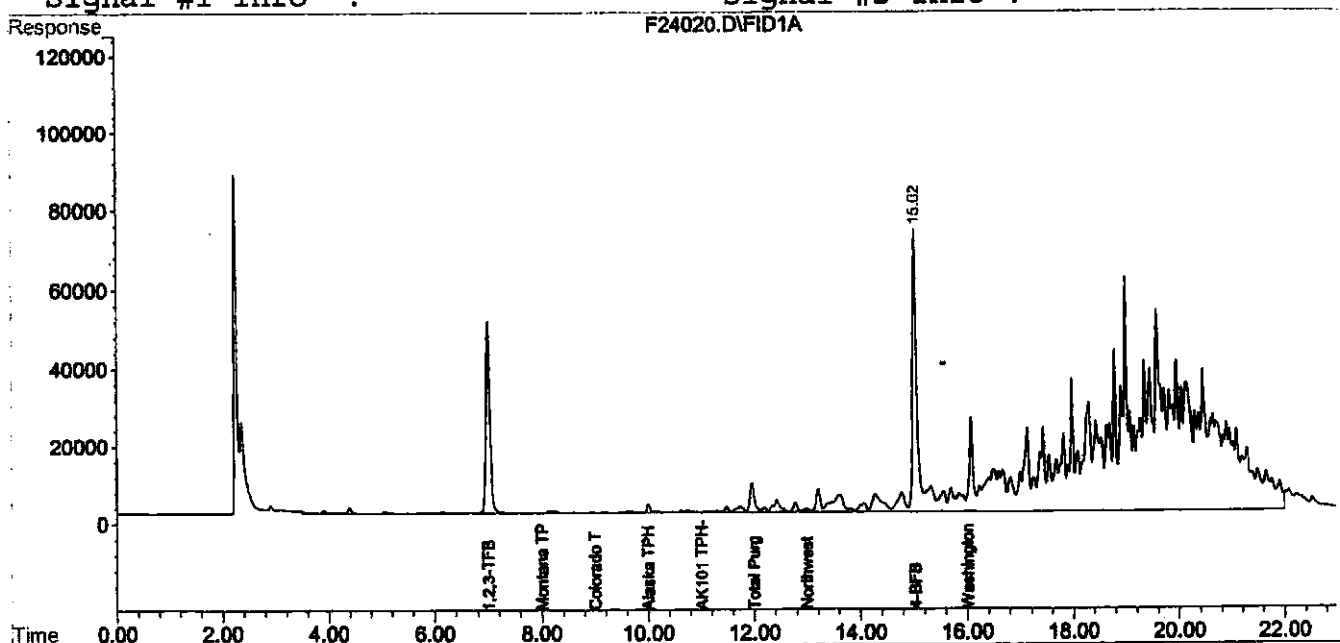


Quantitation Report

Signal #1 : C:\HPCHEM\1\DATA\062402\F24020.D\FID1A.CH Vial: 20
Signal #2 : C:\HPCHEM\1\DATA\062402\F24020.D\FID2B.CH
Acq On : 24 Jun 2002 16:22 Operator: aa
Sample : b2f0509-07 r1 Inst : GC #2
Misc : 1x 100 ul Multiplr: 1.00
IntFile Signal #1: TPH2.E IntFile Signal #2: SURR2.E
Quant Time: Jun 24 16:46 2002 Quant Results File: TEST0602.RES

Quant Method : C:\HPCHEM\1\METHODS\TEST0602.M (Chemstation Integrator)
Title : TPH-G Method
Last Update : Tue Jun 18 15:09:06 2002
Response via : Multiple Level Calibration
DataAcq Meth : TEST0602.M

Volume Inj. :
Signal #1 Phase : Signal #2 Phase:
Signal #1 Info : Signal #2 Info :



Quantitation Report

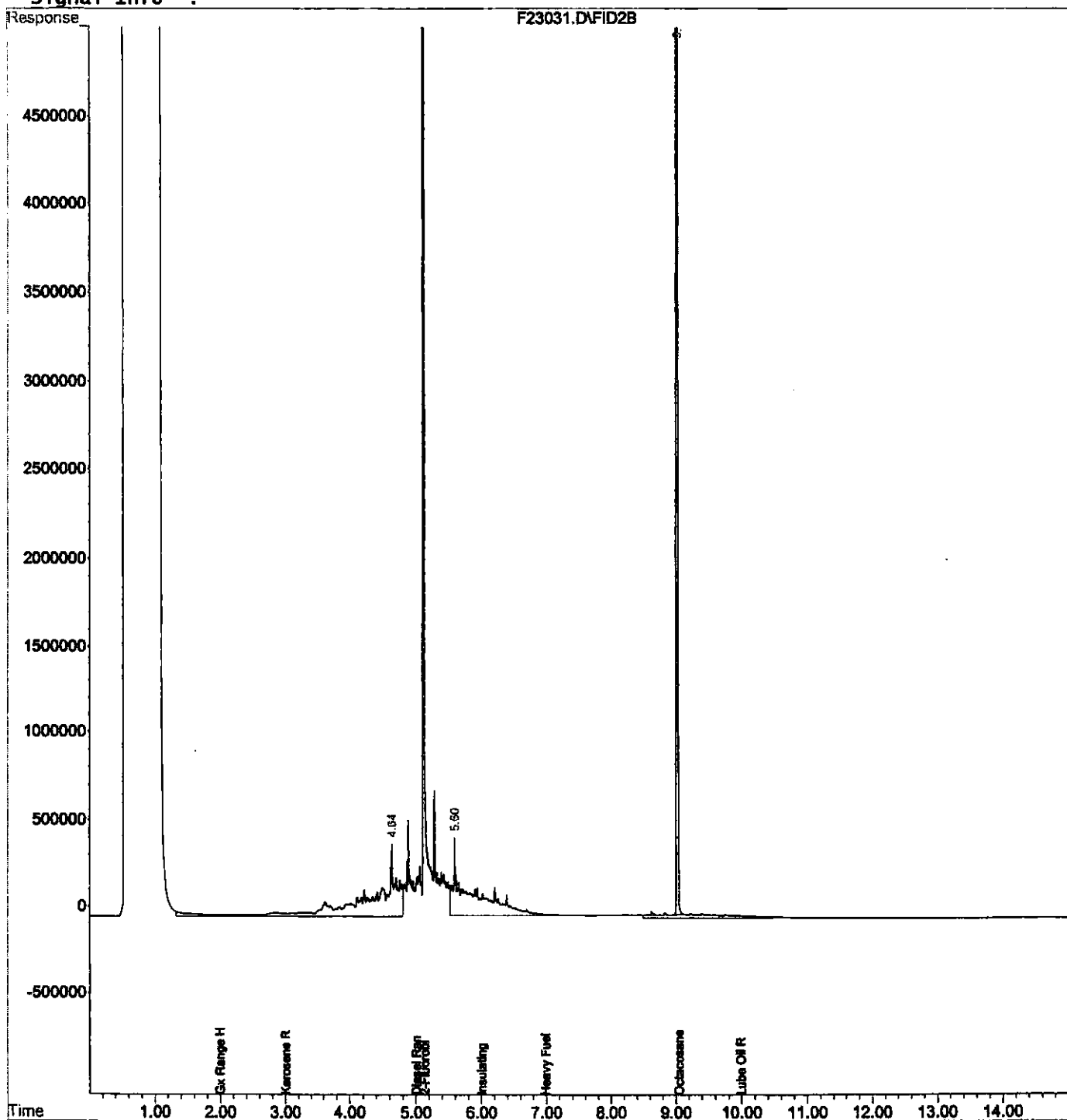
Data File : C:\HPCHEM\1\DATA\062302\F23031.D
Acq On : 6-23-02 7:08:21 PM
Sample : b2f0509-08
Misc : s HCID
IntFile : SURR.E
Quant Time: Jun 24 7:49 2002

Vial: 11
Operator: EP
Inst : GC #9
Multiplr: 1.00

Quant Results File: 17402^9B.RES

Quant Method : C:\HPCHEM\1\METHODS\17402^9B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Mon Jun 24 07:44:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : 15502^9A.M

Volume Inj. :
Signal Phase :
Signal Info :

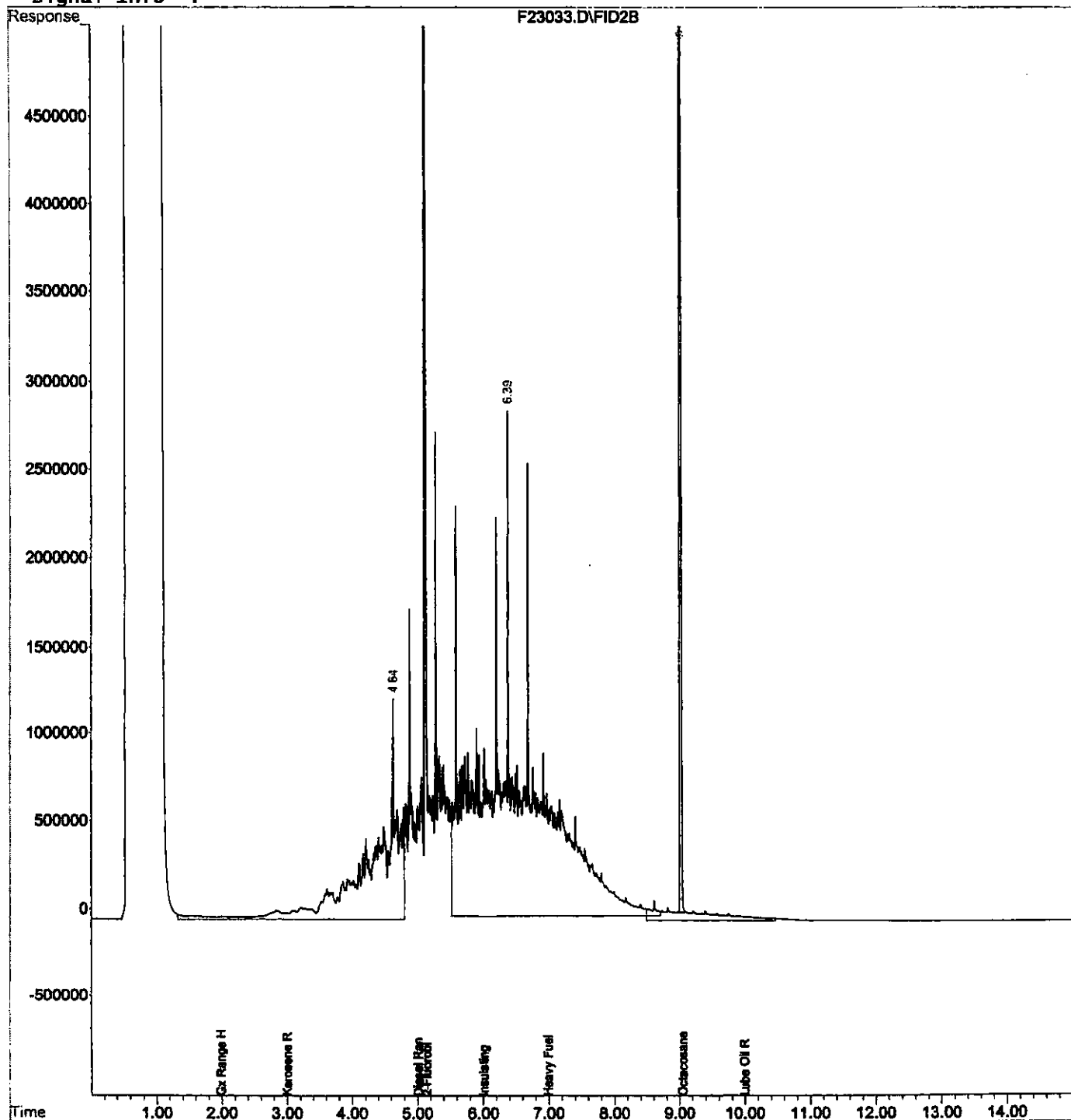


Quantitation Report

Data File : C:\HPCHEM\1\DATA\062302\F23033.D Vial: 12
Acq On : 6-23-02 7:31:27 PM Operator: EP
Sample : b2f0509-09 Inst : GC #9
Misc : s HCID Multiplr: 1.00
IntFile : SURR.E
Quant Time: Jun 24 7:49 2002 Quant Results File: 17402^9B.RES

Quant Method : C:\HPCHEM\1\METHODS\17402^9B.M (Chemstation Integrator)
Title : TPH-D Rear
Last Update : Mon Jun 24 07:44:56 2002
Response via : Multiple Level Calibration
DataAcq Meth : 1550219A.M

Volume Inj. :
Signal Phase :
Signal Info :





11720 North Creek Pkwy N, Suite 400, Bothell, WA 98011-8244
 East 11115 Montgomery, Suite B, Spokane, WA 99206-4776
 9405 S.W. Nimbus Avenue, Beaverton, OR 97008-7132
 20332 Empire Avenue, Suite F-1, Bend, OR 97701-5711

(425) 420-9200 FAX 420-9210
 (509) 974-9200 FAX 974-9290
 (503) 906-9200 FAX 906-9210
 (541) 383-9310 FAX 382-7588

CHAIN OF CUSTODY REPORT

Work Order #: BZFO509

CLIENT: Time Oil
 REPORT TO: Scott Stan
 ADDRESS: Time Oil
 PHONE: 12100 NE 15th St. Ste 200
 Bothell, WA 98011

INVOICE TO: Time Oil

PROJECT NAME: Rapid Response

PROJECT NUMBER:

SAMPLED BY: J. Rogers

P.O. NUMBER:

FAX:

CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME	REQUESTED ANALYSES					
		NWTHDx - Hydraulic Range	NWTHDx - Ext. Range	NWTHGx	BETX	Total Lead	H/C/D

MATRIX (W.S.O)	# OF CONT.	COMMENTS	NCA WO ID
S	1	24 hr TAT	
"	1	"	
"	1	"	
"	1	"	
"	3	SH. TAT	
"	3	"	
"	3	"	
"	3	5 day TAT	
"	4	"	

TURNAROUND REQUEST in Business Days*

Organic & Inorganic Analyses: 10 7 5 4 3 2 1 <1

Petroleum Hydrocarbon Analyses: 5 4 3 2 1 <1

STD. OTHER See comments

*Turnaround Requests less than standard may incur Rush Charges.

RECEIVED BY: Cathy Campbell
 PRINT NAME: Cathy Campbell
 DATE: 6-20
 TIME: 1330

RECEIVED BY: Dim Rogers
 PRINT NAME: Dim Rogers
 DATE: 6-20
 TIME: 1330

FIRM: FWENC

FIRM: NCA

DATE: 6/20/06

TIME: 13:30

ADDITIONAL REMARKS: 24 hr TAT on 1-4: need results before COB Fri 6/21

COC REV 3/99

TEMP: PAGE OF