

1R - 173

REPORTS

DATE:

6/12/1997

**Certificate of
Analysis**

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ANALYTICAL REPORT

Hobbs, N.M.

Lot #: I7E270113

Dana Kuchenbecker

Koch Pipeline Company, L.P.

QUANTERRA INCORPORATED

Sandra L. Green
Project Manager

June 12, 1997

EXECUTIVE SUMMARY - Detection Highlights

I7E270113

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TJX124-MW-1 05/23/97 00:00 001				
Diesel Range Organics	1100	50	ug/L	SW846 8015 MOD
Benzene	550	20	ug/L	SW846 8020/GRO
Gasoline Range Organics	1200	250	ug/L	SW846 8020/GRO
TJX124-MW-2 05/23/97 00:00 002				
Diesel Range Organics	1900	50	ug/L	SW846 8015 MOD
Benzene	98	5.0	ug/L	SW846 8020/GRO
Gasoline Range Organics	190	95	ug/L	SW846 8020/GRO
TJX124-SUE1-5 05/21/97 00:00 004				
Diesel Range Organics	10000000	36000	ug/kg	SW846 8015 MOD
Benzene	1300	210	ug/kg	SW846 8020/GRO
Ethylbenzene	20000	210	ug/kg	SW846 8020/GRO
Gasoline Range Organics	400000	21000	ug/kg	SW846 8020/GRO
Toluene	14000	210	ug/kg	SW846 8020/GRO
Xylenes (total)	26000	210	ug/kg	SW846 8020/GRO
Percent Moisture	5.6	0.50	%	OCLP OLM03.1
TJX124-SUE1-50 05/21/97 00:00 005				
Percent Moisture	10.3	0.50	%	OCLP OLM03.1
TJX124-AI1-5 05/21/97 00:00 006				
Diesel Range Organics	1100000	9200	ug/kg	SW846 8015 MOD
Ethylbenzene	1800	54	ug/kg	SW846 8020/GRO
Gasoline Range Organics	31000	5400	ug/kg	SW846 8020/GRO
Toluene	510	54	ug/kg	SW846 8020/GRO
Xylenes (total)	1600	54	ug/kg	SW846 8020/GRO
Percent Moisture	7.6	0.50	%	OCLP OLM03.1
TJX124-AI1-25 05/21/97 00:00 007				
Diesel Range Organics	92000	2000	ug/kg	SW846 8015 MOD
Benzene	1.8	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	12	1.2	ug/kg	SW846 8020/GRO
Toluene	2.9	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	6.8	1.2	ug/kg	SW846 8020/GRO
Percent Moisture	14.0	0.50	%	OCLP OLM03.1

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EXECUTIVE SUMMARY - Detection Highlights

I7E270113

PARAMETER	RESULT	REPORTING LIMIT	UNITS	ANALYTICAL METHOD
TJX124-AI1-30 05/21/97 00:00 008				
Diesel Range Organics	2300	1800	ug/kg	SW846 8015 MOD
Percent Moisture	7.2	0.50	%	OCLP OLM03.1
TJX124-AI2-5 05/21/97 00:00 009				
Diesel Range Organics	14000000	110000	ug/kg	SW846 8015 MOD
Benzene	30000	2300	ug/kg	SW846 8020/GRO
Ethylbenzene	130000	2300	ug/kg	SW846 8020/GRO
Gasoline Range Organics	2500000	230000	ug/kg	SW846 8020/GRO
Toluene	180000	2300	ug/kg	SW846 8020/GRO
Xylenes (total)	180000	2300	ug/kg	SW846 8020/GRO
Percent Moisture	11.3	0.50	%	OCLP OLM03.1
TJX124-AI2-25 05/21/97 00:00 010				
Diesel Range Organics	630000	9900	ug/kg	SW846 8015 MOD
Ethylbenzene	1700	58	ug/kg	SW846 8020/GRO
Gasoline Range Organics	47000	5800	ug/kg	SW846 8020/GRO
Toluene	880	58	ug/kg	SW846 8020/GRO
Xylenes (total)	2700	58	ug/kg	SW846 8020/GRO
Percent Moisture	14.1	0.50	%	OCLP OLM03.1
TJX124-AI2-30 05/21/97 00:00 011				
Diesel Range Organics	190000	2000	ug/kg	SW846 8015 MOD
Benzene	1.6	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	33	1.2	ug/kg	SW846 8020/GRO
Gasoline Range Organics	260	120	ug/kg	SW846 8020/GRO
Toluene	13	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	42	1.2	ug/kg	SW846 8020/GRO
Percent Moisture	14.0	0.50	%	OCLP OLM03.1
TJX124-AI3-5 05/21/97 00:00 012				
Diesel Range Organics	8700000	41000	ug/kg	SW846 8015 MOD
Benzene	9600	600	ug/kg	SW846 8020/GRO
Ethylbenzene	48000	600	ug/kg	SW846 8020/GRO
Gasoline Range Organics	960000	60000	ug/kg	SW846 8020/GRO
Toluene	53000	600	ug/kg	SW846 8020/GRO
Xylenes (total)	67000	600	ug/kg	SW846 8020/GRO
Percent Moisture	16.8	0.50	%	OCLP OLM03.1

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EXECUTIVE SUMMARY - Detection Highlights

I7E270113

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>ANALYTICAL METHOD</u>
TJX124-AI3-25 05/21/97 00:00 013				
Diesel Range Organics	110000	1900	ug/kg	SW846 8015 MOD
Ethylbenzene	2.4	1.1	ug/kg	SW846 8020/GRO
Gasoline Range Organics	180	110	ug/kg	SW846 8020/GRO
Xylenes (total)	4.7	1.1	ug/kg	SW846 8020/GRO
Percent Moisture	8.4	0.50	%	OCLP OLM03.1
TJX124-AI3-30 05/21/97 00:00 014				
Benzene	3.0	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	1.7	1.2	ug/kg	SW846 8020/GRO
Toluene	2.8	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	3.2	1.2	ug/kg	SW846 8020/GRO
Percent Moisture	17.3	0.50	%	OCLP OLM03.1

ANALYTICAL METHODS SUMMARY

I7E270113

<u>PARAMETER</u>	<u>ANALYTICAL METHOD</u>
% Moisture, Decanted-CLP	OCLP OLM03.1
Extractable Petroleum Hydrocarbons	SW846 8015 MOD
Volatile and Gasoline Range Organics (PID/FID)	SW846 8020/GRO

References:

- OCLP USEPA Contract Laboratory Program Statement of Work for
Organics Analysis, Multi-Media, Multi-Concentration.
- SW846 "Test Methods for Evaluating Solid Waste, Physical/Chemical
Methods", Third Edition, November 1986 and its updates.

SAMPLE SUMMARY

I7E270113

WO #	SAMPLE#	CLIENT SAMPLE ID	DATE	TIME
C9REQ	001	TJX124-MW-1	05/23/97	00:00
C9RER	002	TJX124-MW-2	05/23/97	00:00
C9RET	003	TJX124-MW-3	05/23/97	00:00
C9REV	004	TJX124-SUE1-5	05/21/97	00:00
C9REX	005	TJX124-SUE1-50	05/21/97	00:00
C9RF0	006	TJX124-AI1-5	05/21/97	00:00
C9RF1	007	TJX124-AI1-25	05/21/97	00:00
C9RF2	008	TJX124-AI1-30	05/21/97	00:00
C9RF3	009	TJX124-AI2-5	05/21/97	00:00
C9RF4	010	TJX124-AI2-25	05/21/97	00:00
C9RF5	011	TJX124-AI2-30	05/21/97	00:00
C9RF6	012	TJX124-AI3-5	05/21/97	00:00
C9RF7	013	TJX124-AI3-25	05/21/97	00:00
C9RF8	014	TJX124-AI3-30	05/21/97	00:00

NOTE(S) :

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-1

GC Semivolatiles

Lot-Sample #....: I7E270113-001 Work Order #....: C9REQ103 Matrix.....: WATER
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/29/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7149155
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	1100	50	ug/L	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	94	(28 - 131)
Dotriacontane	86	(37 - 139)



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KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-1

GC Volatiles

Lot-Sample #....: I7E270113-001 Work Order #....: C9REQ102 Matrix.....: WATER
Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/03/97 Analysis Date...: 06/04/97
Prep Batch #....: 7155167
Dilution Factor: 2.5

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Gasoline Range Organics	1200	250	ug/L	SW846 8020/GRO

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-1

GC Volatiles

Lot-Sample #....: I7E270113-001 Work Order #....: C9REQ302 Matrix.....: WATER
Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/03/97 Analysis Date...: 06/04/97
Prep Batch #....: 7155167
Dilution Factor: 20

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	550	20	ug/L	SW846 8020/GRO
Toluene	ND	20	ug/L	SW846 8020/GRO
Ethylbenzene	ND	20	ug/L	SW846 8020/GRO
Xylenes (total)	ND	20	ug/L	SW846 8020/GRO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	100	(75 - 125)

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-2

GC Semivolatiles

Lot-Sample #....: I7E270113-002 Work Order #....: C9RER103 Matrix.....: WATER
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/29/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7149155
 Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	1900	50	ug/L	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	90	(28 - 131)
Dotriacontane	88	(37 - 139)

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-2

GC Volatiles

Lot-Sample #....: I7E270113-002 Work Order #....: C9RER102 Matrix.....: WATER
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/03/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7155167
 Dilution Factor: 5

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	98	5.0	ug/L	SW846 8020/GRO
Toluene	ND	5.0	ug/L	SW846 8020/GRO
Ethylbenzene	ND	5.0	ug/L	SW846 8020/GRO
Xylenes (total)	ND	5.0	ug/L	SW846 8020/GRO
Gasoline Range Organics	190	95	ug/L	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	101	(75 - 125)		

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-3

GC Semivolatiles

Lot-Sample #...: I7E270113-003 Work Order #...: C9RET103 Matrix.....: WATER
Date Sampled...: 05/23/97 00:00 Date Received...: 05/24/97
Prep Date.....: 05/29/97 Analysis Date...: 06/04/97
Prep Batch #...: 7149155
Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	1200	ug/L	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	95	(28 - 131)
Dotriacontane	92	(37 - 139)

NOTE(S):

Elevated reporting level due to insufficient sample volume.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-MW-3

GC Volatiles

Lot-Sample #....: I7E270113-003 Work Order #....: C9RET102 Matrix.....: WATER
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/03/97 Analysis Date...: 06/03/97
 Prep Batch #....: 7155167
 Dilution Factor: 1

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8020/GRO
Toluene	ND	1.0	ug/L	SW846 8020/GRO
Ethylbenzene	ND	1.0	ug/L	SW846 8020/GRO
Xylenes (total)	ND	1.0	ug/L	SW846 8020/GRO
Gasoline Range Organics	ND	100	ug/L	SW846 8020/GRO
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
a,a,a-Trifluorotoluene (TFT)	103	(75 - 125)		

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-SUE1-5

GC Semivolatiles

Lot-Sample #....: I7E270113-004 Work Order #....: C9REV104 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/04/97 Analysis Date...: 06/05/97
 Prep Batch #....: 7155235
 Dilution Factor: 20
 % Moisture.....: 5.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	10000000	36000	ug/kg	SW846 8015 MOD
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
o-Terphenyl	NC, SRD	(40 - 144)		
Dotriacontane	NC, SRD	(42 - 159)		

NOTE(S):

NC The recovery and RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-SUE1-5

GC Volatiles

Lot-Sample #....: I7E270113-004 Work Order #....: C9REV103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 200
 % Moisture.....: 5.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	1300	210	ug/kg	SW846 8020/GRO
Ethylbenzene	20000	210	ug/kg	SW846 8020/GRO
Gasoline Range Organics	400000	21000	ug/kg	SW846 8020/GRO
Toluene	14000	210	ug/kg	SW846 8020/GRO
Xylenes (total)	26000	210	ug/kg	SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	219 *	(75 - 125)

NOTE(S):

* Surrogate recovery is outside stated control limits.

The surrogate recovery in the sample is outside control limits due to confirmed matrix effect.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-SUE1-50

GC Semivolatiles

Lot-Sample #....: I7E270113-005 Work Order #....: C9REX104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 1
% Moisture.....: 10

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	1900	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	93	(40 - 144)
Dotriacontane	85	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.
Client Sample ID: TJX124-SUB1-50
GC Volatiles

Lot-Sample #....: I7E270113-005 **Work Order #....:** C9REX103 **Matrix.....:** SOLID
Date Sampled....: 05/21/97 00:00 **Date Received...:** 05/24/97
Prep Date.....: 05/28/97 **Analysis Date...:** 05/29/97
Prep Batch #....: 7149233
Dilution Factor: 1
% Moisture.....: 10

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.1	ug/kg	SW846 8020/GRO
Ethylbenzene	ND	1.1	ug/kg	SW846 8020/GRO
Gasoline Range Organics	ND	110	ug/kg	SW846 8020/GRO
Toluene	ND	1.1	ug/kg	SW846 8020/GRO
Xylenes (total)	ND	1.1	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	101	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI1-5

GC Semivolatiles

Lot-Sample #....: I7E270113-006 Work Order #....: C9RF0104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/05/97
Prep Batch #....: 7155235
Dilution Factor: 5
% Moisture.....: 7.6

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	1100000	9200	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	97 DIL	(40 - 144)
Dotriacontane	153 DIL	(42 - 159)

NOTE(S):

DIL The concentration is estimated or not reported due to dilution or the presence of interfering analytes.
Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-5

GC Volatiles

Lot-Sample #....: I7E270113-006 Work Order #....: C9RF0103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 50
 % Moisture.....: 7.6

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	54	ug/kg	SW846 8020/GRO
Ethylbenzene	1800	54	ug/kg	SW846 8020/GRO
Gasoline Range Organics	31000	5400	ug/kg	SW846 8020/GRO
Toluene	510	54	ug/kg	SW846 8020/GRO
Xylenes (total)	1600	54	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	109	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-25

GC Semivolatiles

Lot-Sample #....: I7E270113-007 Work Order #....: C9RF1104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 1
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	92000	2000	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	107	(40 - 144)
Dotriacontane	84	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI1-25

GC Volatiles

Lot-Sample #....: I7E270113-007 Work Order #....: C9RF1103 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
Prep Batch #....: 7149233
Dilution Factor: 1
% Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	1.8	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	12	1.2	ug/kg	SW846 8020/GRO
Gasoline Range Organics	ND	120	ug/kg	SW846 8020/GRO
Toluene	2.9	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	6.8	1.2	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	112	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-30

GC Semivolatiles

Lot-Sample #....: I7E270113-008 Work Order #....: C9RF2104 Matrix.....: SOLID
 Date Sampled...: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
 Prep Batch #....: 7155235
 Dilution Factor: 1
 % Moisture.....: 7.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	2300	1800	ug/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	95	(40 - 144)
Dotriacontane	88	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-30

GC Volatiles

Lot-Sample #....: I7E270113-008 Work Order #....: C9RF2103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149233
 Dilution Factor: 1
 % Moisture.....: 7.2

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.1	ug/kg	SW846 8020/GRO
Ethylbenzene	ND	1.1	ug/kg	SW846 8020/GRO
Gasoline Range Organics	ND	110	ug/kg	SW846 8020/GRO
Toluene	ND	1.1	ug/kg	SW846 8020/GRO
Xylenes (total)	ND	1.1	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	97	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-5

GC Semivolatiles

Lot-Sample #....: I7E270113-009 Work Order #....: C9RF3104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/05/97
Prep Batch #....: 7155235
Dilution Factor: 60
% Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	14000000	110000	ug/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	NC,SRD	(40 - 144)
Dotriacontane	NC,SRD	(42 - 159)

NOTE(S):

NC The recovery and RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-5

GC Volatiles

Lot-Sample #....: I7E270113-009 Work Order #....: C9RF3103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 2000
 % Moisture.....: 11

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	30000	2300	ug/kg	SW846 8020/GRO
Ethylbenzene	130000	2300	ug/kg	SW846 8020/GRO
Gasoline Range Organics	2500000	230000	ug/kg	SW846 8020/GRO
Toluene	180000	2300	ug/kg	SW846 8020/GRO
Xylenes (total)	180000	2300	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	NC, SRD	(75 - 125)		

NOTE(S):

NC The recovery and RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-25

GC Semivolatiles

Lot-Sample #....: I7E270113-010 Work Order #....: C9RF4104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/05/97
Prep Batch #....: 7155235
Dilution Factor: 5
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	630000	9900	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	110	(40 - 144)
Dotriacontane	125	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-25

GC Volatiles

Lot-Sample #....: I7E270113-010 Work Order #....: C9RF4103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 50
 % Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	58	ug/kg	SW846 8020/GRO
Ethylbenzene	1700	58	ug/kg	SW846 8020/GRO
Gasoline Range Organics	47000	5800	ug/kg	SW846 8020/GRO
Toluene	880	58	ug/kg	SW846 8020/GRO
Xylenes (total)	2700	58	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	101	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-30

GC Semivolatiles

Lot-Sample #....: I7E270113-011 Work Order #....: C9RF5104 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
 Prep Batch #....: 7155235
 Dilution Factor: 1
 % Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	190000	2000	ug/kg	SW846 8015 MOD
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
o-Terphenyl	107	(40 - 144)		
Dotriacontane	59	(42 - 159)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-30

GC Volatiles

Lot-Sample #....: I7E270113-011 Work Order #....: C9RF5103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149233
 Dilution Factor: 1
 % Moisture.....: 14

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	1.6	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	33	1.2	ug/kg	SW846 8020/GRO
Gasoline Range Organics	260	120	ug/kg	SW846 8020/GRO
Toluene	13	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	42	1.2	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	105	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-5

GC Semivolatiles

Lot-Sample #....: I7E270113-012 Work Order #....: C9RF6104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 20
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	8700000	41000	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	NC, SRD	(40 - 144)
Dotriacontane	NC, SRD	(42 - 159)

NOTE(S):

NC The recovery and RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-5

GC Volatiles

Lot-Sample #....: I7E270113-012 Work Order #....: C9RF6103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 500
 % Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	9600	600	ug/kg	SW846 8020/GRO
Ethylbenzene	48000	600	ug/kg	SW846 8020/GRO
Gasoline Range Organics	960000	60000	ug/kg	SW846 8020/GRO
Toluene	53000	600	ug/kg	SW846 8020/GRO
Xylenes (total)	67000	600	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
Bromofluorobenzene	NC, SRD	(75 - 125)		

NOTE(S):

NC The recovery and RPD were not calculated.

SRD The surrogate recovery was not calculated because the extract was diluted beyond the ability to quantitate a recovery.

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-25

GC Semivolatiles

Lot-Sample #....: I7E270113-013 Work Order #....: C9RF7104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 1
% Moisture.....: 8.4

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	110000	1900	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	111	(40 - 144)
Dotriacontane	68	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-25

GC Volatiles

Lot-Sample #....: I7E270113-013 Work Order #....: C9RF7103 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149233
 Dilution Factor: 1
 % Moisture.....: 8.4

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	ND	1.1	ug/kg	SW846 8020/GRO
Ethylbenzene	2.4	1.1	ug/kg	SW846 8020/GRO
Gasoline Range Organics	180	110	ug/kg	SW846 8020/GRO
Toluene	ND	1.1	ug/kg	SW846 8020/GRO
Xylenes (total)	4.7	1.1	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	101	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-30

GC Semivolatiles

Lot-Sample #....: I7E270113-014 Work Order #....: C9RF8104 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 1
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	2100	ug/kg	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	94	(40 - 144)
Dotriacontane	90	(42 - 159)

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-30

GC Volatiles

Lot-Sample #....: I7E270113-014 Work Order #....: C9RF8103 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
Prep Batch #....: 7149233
Dilution Factor: 1
% Moisture.....: 17

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Benzene	3.0	1.2	ug/kg	SW846 8020/GRO
Ethylbenzene	1.7	1.2	ug/kg	SW846 8020/GRO
Gasoline Range Organics	ND	120	ug/kg	SW846 8020/GRO
Toluene	2.8	1.2	ug/kg	SW846 8020/GRO
Xylenes (total)	3.2	1.2	ug/kg	SW846 8020/GRO
SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS		
a,a,a-Trifluorotoluene (TFT)	99	(75 - 125)		

NOTE(S):

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-SUE1-5

General Chemistry

Lot-Sample #....: I7E270113-004 Work Order #....: C9REV Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 5.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	5.6	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

NOTE(S):

RL Reporting Limit

Results and reporting limits have been adjusted for dry weight.

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-SUE1-50

General Chemistry

Lot-Sample #....: I7E270113-005 Work Order #....: C9REX Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 10

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	10.3	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-5

General Chemistry

Lot-Sample #....: I7E270113-006 Work Order #....: C9RF0 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 7.6

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	7.6	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI1-25

General Chemistry

Lot-Sample #....: I7E270113-007 Work Order #....: C9RF1 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	14.0	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-A11-30

General Chemistry

Lot-Sample #....: I7E270113-008 Work Order #....: C9RF2 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 7.2

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	7.2	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-5

General Chemistry

Lot-Sample #....: I7E270113-009 Work Order #....: C9RF3 Matrix.....: SOLID
 Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
 % Moisture.....: 11

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	11.3	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-25

General Chemistry

Lot-Sample #....: I7E270113-010 Work Order #....: C9RF4 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 14

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	14.1	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI2-30

General Chemistry

Lot-Sample #....: I7E270113-011 Work Order #....: C9RF5 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 14

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	14.0	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-5

General Chemistry

Lot-Sample #....: I7E270113-012 Work Order #....: C9RF6 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	16.8	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-25

General Chemistry

Lot-Sample #....: I7E270113-013 Work Order #....: C9RF7 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 8.4

PARAMETER	RESULT	RL	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	8.4	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

KOCH PIPELINE COMPANY, L.P.

Client Sample ID: TJX124-AI3-30

General Chemistry

Lot-Sample #....: I7E270113-014 Work Order #....: C9RF8 Matrix.....: SOLID
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
% Moisture.....: 17

<u>PARAMETER</u>	<u>RESULT</u>	<u>RL</u>	<u>UNITS</u>	<u>METHOD</u>	<u>PREPARATION- ANALYSIS DATE</u>	<u>PREP BATCH #</u>
Percent Moisture	17.3	0.50	%	OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

QC DATA ASSOCIATION SUMMARY

I7E270113

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
001	WATER	SW846 8015 MOD		7149155	
	WATER	SW846 8020/GRO		7155167	7155043
002	WATER	SW846 8015 MOD		7149155	
	WATER	SW846 8020/GRO		7155167	7155043
003	WATER	SW846 8015 MOD		7149155	
	WATER	SW846 8020/GRO		7155167	7155043
004	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149212	7149077
005	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091
006	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149212	7149077
007	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091
008	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091
009	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149212	7149077
010	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149212	7149077
011	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091
012	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149212	7149077

QC DATA ASSOCIATION SUMMARY

I7E270113

Sample Preparation and Analysis Control Numbers

<u>SAMPLE#</u>	<u>MATRIX</u>	<u>ANALYTICAL METHOD</u>	<u>LEACH BATCH #</u>	<u>PREP BATCH #</u>	<u>MS RUN#</u>
013	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091
014	SOLID	OCLP OLM03.1		7153208	7153062
	SOLID	SW846 8015 MOD		7155235	7155096
	SOLID	SW846 8020/GRO		7149233	7149091

METHOD BLANK REPORT**GC Semivolatiles**

Client Lot #....: I7E270113
MB Lot-Sample #: I7E290000-155

Work Order #....: C9TGJ101

Matrix.....: WATER

Analysis Date...: 06/04/97
Dilution Factor: 1

Prep Date.....: 05/29/97

Prep Batch #....: 7149155

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Diesel Range Organics	ND	50	ug/L	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	91	(28 - 131)
Dotriacontane	93	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT**GC Volatiles**

Client Lot #....: I7E270113
MB Lot-Sample #: I7E290000-212

Work Order #....: C9TXJ101

Matrix.....: SOLID

Analysis Date...: 05/28/97
Dilution Factor: 50

Prep Date.....: 05/28/97

Prep Batch #....: 7149212

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u> <u>LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Toluene	ND	50	ug/kg	SW846 8020/GRO
Xylenes (total)	ND	50	ug/kg	SW846 8020/GRO
Benzene	ND	50	ug/kg	SW846 8020/GRO
Ethylbenzene	ND	50	ug/kg	SW846 8020/GRO
Gasoline Range Organics	ND	5000	ug/kg	SW846 8020/GRO

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT**GC Volatiles**

Client Lot #...: I7E270113
MB Lot-Sample #: I7E290000-233

Work Order #...: C9V1D101

Matrix.....: SOLID

Analysis Date...: 05/28/97
Dilution Factor: 1

Prep Date.....: 05/28/97

Prep Batch #...: 7149233

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING</u>			<u>METHOD</u>
		<u>LIMIT</u>	<u>UNITS</u>		
Benzene	ND	1.0	ug/kg		SW846 8020/GRO
Ethylbenzene	ND	1.0	ug/kg		SW846 8020/GRO
Toluene	ND	1.0	ug/kg		SW846 8020/GRO
Xylenes (total)	ND	1.0	ug/kg		SW846 8020/GRO
Gasoline Range Organics	ND	100	ug/kg		SW846 8020/GRO
<u>SURROGATE</u>	<u>PERCENT</u>	<u>RECOVERY</u>			
	<u>RECOVERY</u>	<u>LIMITS</u>			
a,a,a-Trifluorotoluene (TFT)	99	(75 - 125)			

NOTE(S) :

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT
GC Semivolatiles

Client Lot #....: I7E270113
 MB Lot-Sample #: I7F040000-235

Work Order #....: C9XN9101

Matrix.....: SOLID

Analysis Date...: 06/05/97

Prep Date.....: 06/04/97

Prep Batch #....: 7155235

Dilution Factor: 1

PARAMETER	RESULT	REPORTING LIMIT	UNITS	METHOD
Diesel Range Organics	ND	1700	ug/kg	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	86	(40 - 144)
Dotriacontane	85	(42 - 159)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

METHOD BLANK REPORT

GC Volatiles

Client Lot #....: I7E270113
MB Lot-Sample #: I7F040000-167

Work Order #....: C9X95101

Matrix.....: WATER

Analysis Date...: 06/04/97
Dilution Factor: 1

Prep Date.....: 06/03/97

Prep Batch #....: 7155167

<u>PARAMETER</u>	<u>RESULT</u>	<u>REPORTING LIMIT</u>	<u>UNITS</u>	<u>METHOD</u>
Benzene	ND	1.0	ug/L	SW846 8020/GRO
Toluene	ND	1.0	ug/L	SW846 8020/GRO
Ethylbenzene	ND	1.0	ug/L	SW846 8020/GRO
Xvlenes (total)	ND	1.0	ug/L	SW846 8020/GRO
Gasoline Range Organics	ND	50	ug/L	SW846 8020/GRO
<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>		
a,a,a-Trifluorotoluene (TFT)	99	(75 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: I7E270113 Work Order #....: C9TGJ102-LCS Matrix.....: WATER
 LCS Lot-Sample#: I7E290000-155 C9TGJ103-LCSD
 Prep Date.....: 05/29/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7149155
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Diesel Range Organics	1000	900	ug/L	90		SW846 8015 MOD
	1000	990	ug/L	99	9.2	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(28 - 131)
	90	(28 - 131)
Dotriacontane	72	(37 - 139)
	75	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT
GC Semivolatiles

Client Lot #....: I7E270113 Work Order #....: C9TGJ102-LCS Matrix.....: WATER
 LCS Lot-Sample#: I7E290000-155 C9TGJ103-LCSD
 Prep Date.....: 05/29/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7149155
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	90	(51 - 127)			SW846 8015 MOD
	99	(51 - 127)	9.2	(0-28)	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	87	(28 - 131)
	90	(28 - 131)
Dotriacontane	72	(37 - 139)
	75	(37 - 139)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9TXJ102 Matrix.....: SOLID
 LCS Lot-Sample#: I7E290000-212
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149212
 Dilution Factor: 50

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	1000	1000	ug/kg	96	SW846 8020/GR
Toluene	3000	3000	ug/kg	101	SW846 8020/GR
Ethylbenzene	1000	1000	ug/kg	97	SW846 8020/GR
Xylenes (total)	5000	5200	ug/kg	103	SW846 8020/GR
Gasoline Range Organics	19000	18000	ug/kg	97	SW846 8020/GR
Methyl tert-butyl ether	1000	950	ug/kg	93	SW846 8020/GR
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>		<u>RECOVERY</u> <u>LIMITS</u>	
Bromofluorobenzene		97		(75 - 125)	

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9V1D102 Matrix.....: SOLID
 LCS Lot-Sample#: I7E290000-233
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149233
 Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Benzene	20	22	ug/kg	108	SW846 8020/GR
Toluene	60	61	ug/kg	101	SW846 8020/GR
Ethylbenzene	20	20	ug/kg	100	SW846 8020/GR
Xylenes (total)	100	100	ug/kg	102	SW846 8020/GR
Gasoline Range Organics	380	390	ug/kg	102	SW846 8020/GR
<u>SURROGATE</u>		<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>		
a,a,a-Trifluorotoluene (TFT)		104	(75 - 125)		

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE DATA REPORT
GC Semivolatiles

Client Lot #....: I7E270113 **Work Order #....:** C9XN9102 **Matrix.....:** SOLID
LCS Lot-Sample#: I7F040000-235
Prep Date.....: 06/04/97 **Analysis Date...:** 06/05/97
Prep Batch #....: 7155235
Dilution Factor: 1

<u>PARAMETER</u>	<u>SPIKE</u> <u>AMOUNT</u>	<u>MEASURED</u> <u>AMOUNT</u>	<u>UNITS</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>METHOD</u>
Diesel Range Organics	33000	34000	ug/kg	102	SW846 8015 MO

<u>SURROGATE</u>	<u>PERCENT</u> <u>RECOVERY</u>	<u>RECOVERY</u> <u>LIMITS</u>
o-Terphenyl	91	(40 - 144)
Dotriacontane	85	(42 - 159)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9X95102 Matrix.....: WATER
 LCS Lot-Sample#: I7F040000-167
 Prep Date.....: 06/03/97 Analysis Date...: 06/03/97
 Prep Batch #....: 7155167
 Dilution Factor: 1

PARAMETER	SPIKE AMOUNT	MEASURED AMOUNT	UNITS	PERCENT RECOVERY	METHOD
Benzene	20	22	ug/L	107	SW846 8020/GR
Toluene	60	62	ug/L	103	SW846 8020/GR
Ethylbenzene	20	20	ug/L	101	SW846 8020/GR
Xylenes (total)	100	100	ug/L	102	SW846 8020/GR
Gasoline Range Organics	380	390	ug/L	103	SW846 8020/GR
Methyl tert-butyl ether	20	20	ug/L	98	SW846 8020/GR

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	100	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT
GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9TXJ102 Matrix.....: SOLID
 LCS Lot-Sample#: I7E290000-212
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149212
 Dilution Factor: 50

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	96	(85 - 115)	SW846 8020/GRO
Toluene	101	(85 - 115)	SW846 8020/GRO
Ethylbenzene	97	(85 - 115)	SW846 8020/GRO
Xylenes (total)	103	(85 - 115)	SW846 8020/GRO
Gasoline Range Organics	97	(85 - 115)	SW846 8020/GRO
Methyl tert-butyl ether	93	(85 - 115)	SW846 8020/GRO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
Bromofluorobenzene	97	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9V1D102 Matrix.....: SOLID
 LCS Lot-Sample#: I7E290000-233
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149233
 Dilution Factor: 1

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	METHOD
Benzene	108	(85 - 115)	SW846 8020/GRO
Toluene	101	(85 - 115)	SW846 8020/GRO
Ethylbenzene	100	(85 - 115)	SW846 8020/GRO
Xylenes (total)	102	(85 - 115)	SW846 8020/GRO
Gasoline Range Organics	102	(85 - 115)	SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	104	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

LABORATORY CONTROL SAMPLE EVALUATION REPORT**GC Semivolatiles**

Client Lot #....: I7E270113 **Work Order #....:** C9XN9102 **Matrix.....:** SOLID
LCS Lot-Sample#: I7F040000-235
Prep Date.....: 06/04/97 **Analysis Date...:** 06/05/97
Prep Batch #....: 7155235
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Diesel Range Organics	102	(38 - 139)	SW846 8015 MOD

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
o-Terphenyl	91	(40 - 144)
Dotriacontane	85	(42 - 159)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

LABORATORY CONTROL SAMPLE EVALUATION REPORT**GC Volatiles**

Client Lot #....: I7E270113 Work Order #....: C9X95102 Matrix.....: WATER
LCS Lot-Sample#: I7F040000-167
Prep Date.....: 06/03/97 Analysis Date...: 06/03/97
Prep Batch #....: 7155167
Dilution Factor: 1

<u>PARAMETER</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>	<u>METHOD</u>
Benzene	107	(85 - 115)	SW846 8020/GRO
Toluene	103	(85 - 115)	SW846 8020/GRO
Ethylbenzene	101	(85 - 115)	SW846 8020/GRO
Xylenes (total)	102	(85 - 115)	SW846 8020/GRO
Gasoline Range Organics	103	(85 - 115)	SW846 8020/GRO
Methyl tert-butyl ether	98	(85 - 115)	SW846 8020/GRO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	100	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT
GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9QNR106-MS Matrix.....: SOLID
 MS Lot-Sample #: I7E230176-011 C9QNR107-MSD
 Date Sampled....: 05/21/97 16:50 Date Received...: 05/22/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149233
 Dilution Factor: 1 % Moisture.....: 23

PARAMETER	SAMPLE SPIKE MEASRD			UNITS	PERCENT		
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	METHOD
Benzene	ND	20	21	ug/kg	101		SW846 8020/GRO
	ND	20	21	ug/kg	101	0.77	SW846 8020/GRO
Toluene	ND	60	62	ug/kg	103		SW846 8020/GRO
	ND	60	61	ug/kg	102	1.0	SW846 8020/GRO
Ethylbenzene	ND	20	20	ug/kg	100		SW846 8020/GRO
	ND	20	20	ug/kg	98	1.2	SW846 8020/GRO
Xylenes (total)	1.2	100	110	ug/kg	106		SW846 8020/GRO
	1.2	100	110	ug/kg	104	1.2	SW846 8020/GRO
Gasoline Range Organics	ND	380	350	ug/kg	87		SW846 8020/GRO
	ND	380	350	ug/kg	86	1.2	SW846 8020/GRO

<u>SURROGATE</u>	<u>PERCENT RECOVERY</u>	<u>RECOVERY LIMITS</u>
a,a,a-Trifluorotoluene (TFT)	103	(75 - 125)
	99	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9REQ104-MS Matrix.....: WATER
 MS Lot-Sample #: I7E270113-001 C9REQ105-MSD
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/03/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7155167
 Dilution Factor: 20

PARAMETER	SAMPLE AMOUNT	SPIKE AMT	MEASRD AMOUNT	UNITS	PERCENT RECOVERY	RPD	METHOD
Methyl tert-butyl ether		410	410	ug/L	101		SW846 8020/GRO
		410	420	ug/L	102	1.2	SW846 8020/GRO
Benzene		400	960	ug/L	103		SW846 8020/GRO
		400	900	ug/L	87	6.6	SW846 8020/GRO
Toluene		1200	1200	ug/L	102		SW846 8020/GRO
		1200	1200	ug/L	101	1.2	SW846 8020/GRO
Ethylbenzene		400	410	ug/L	102		SW846 8020/GRO
		400	400	ug/L	100	1.5	SW846 8020/GRO
Xylenes (total)		2000	2000	ug/L	100		SW846 8020/GRO
		2000	2000	ug/L	99	1.1	SW846 8020/GRO
Gasoline Range Organics		7600	8500	ug/L	98		SW846 8020/GRO
		7600	8200	ug/L	95	2.9	SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	99	(75 - 125)
	100	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE DATA REPORT

GC Semivolatiles

Client Lot #....: I7E270113 Work Order #....: C9RF5105-MS Matrix.....: SOLID
MS Lot-Sample #: I7E270113-011 C9RF5106-MSD
Date Sampled....: 05/21/97 00:00 Date Received...: 05/24/97
Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
Prep Batch #....: 7155235
Dilution Factor: 1 % Moisture.....: 14

PARAMETER	SAMPLE SPIKE		MEASRD	UNITS	PERCENT		METHOD
	AMOUNT	AMT	AMOUNT		RECOVERY	RPD	
Diesel Range Organics	190000	39000	230000	ug/kg	111		SW846 8015 MOD
	190000	39000	230000	ug/kg	96	2.5	SW846 8015 MOD

SURROGATE	PERCENT		RECOVERY
	RECOVERY		
o-Terphenyl	106	0	(40 - 144)
	113	0	(40 - 144)
Dotriacontane	55	0	(42 - 159)
	55	0	(42 - 159)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE DATA REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9RTF108-MS Matrix.....: SOLID
MS Lot-Sample #: I7E280111-001 C9RTF109-MSD
Date Sampled....: 05/25/97 15:34 Date Received...: 05/28/97
Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
Prep Batch #....: 7149212
Dilution Factor: 50 % Moisture.....: 8.0

PARAMETER	SAMPLE SPIKE		MEASRD		PERCENT		
	AMOUNT	AMT	AMOUNT	UNITS	RECOVERY	RPD	METHOD
Benzene	ND	1100	1000	ug/kg	92		SW846 8020/GRO
	ND	1100	1000	ug/kg	90	2.2	SW846 8020/GRO
Toluene	ND	3300	3100	ug/kg	94		SW846 8020/GRO
	ND	3300	3200	ug/kg	97	2.8	SW846 8020/GRO
Ethylbenzene	ND	1100	1000	ug/kg	93		SW846 8020/GRO
	ND	1100	1000	ug/kg	92	1.5	SW846 8020/GRO
Xylenes (total)	ND	5500	5200	ug/kg	95		SW846 8020/GRO
	ND	5500	5400	ug/kg	97	2.1	SW846 8020/GRO
Gasoline Range Organics	ND	21000	18000	ug/kg	80		SW846 8020/GRO
	ND	21000	19000	ug/kg	82	2.1	SW846 8020/GRO
Methyl tert-butyl ether	ND	1100	960	ug/kg	87		SW846 8020/GRO
	ND	1100	990	ug/kg	89	2.4	SW846 8020/GRO

SURROGATE	PERCENT	RECOVERY
	RECOVERY	LIMITS
Bromofluorobenzene	92	(75 - 125)
	93	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT
GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9QNR106-MS Matrix.....: SOLID
 MS Lot-Sample #: I7E230176-011 C9QNR107-MSD
 Date Sampled....: 05/21/97 16:50 Date Received...: 05/22/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/28/97
 Prep Batch #....: 7149233
 Dilution Factor: 1 % Moisture.....: 23

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	101	(75 - 125)	0.77	(0-30)	SW846 8020/GRO
	101	(75 - 125)			SW846 8020/GRO
Toluene	103	(75 - 125)	1.0	(0-30)	SW846 8020/GRO
	102	(75 - 125)			SW846 8020/GRO
Ethylbenzene	100	(75 - 125)	1.2	(0-30)	SW846 8020/GRO
	98	(75 - 125)			SW846 8020/GRO
Xylenes (total)	106	(75 - 125)	1.2	(0-30)	SW846 8020/GRO
	104	(75 - 125)			SW846 8020/GRO
Gasoline Range Organics	87	(75 - 125)	1.2	(0-30)	SW846 8020/GRO
	86	(75 - 125)			SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	103	(75 - 125)
	99	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9REQ104-MS Matrix.....: WATER
 MS Lot-Sample #: I7E270113-001 C9REQ105-MSD
 Date Sampled....: 05/23/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/03/97 Analysis Date...: 06/04/97
 Prep Batch #....: 7155167
 Dilution Factor: 20

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Methyl tert-butyl ether	101	(75 - 125)			SW846 8020/GRO
	102	(75 - 125)	1.2	(0-30)	SW846 8020/GRO
Benzene	103	(75 - 125)			SW846 8020/GRO
	87	(75 - 125)	6.6	(0-30)	SW846 8020/GRO
Toluene	102	(75 - 125)			SW846 8020/GRO
	101	(75 - 125)	1.2	(0-30)	SW846 8020/GRO
Ethylbenzene	102	(75 - 125)			SW846 8020/GRO
	100	(75 - 125)	1.5	(0-30)	SW846 8020/GRO
Xylenes (total)	100	(75 - 125)			SW846 8020/GRO
	99	(75 - 125)	1.1	(0-30)	SW846 8020/GRO
Gasoline Range Organics	98	(75 - 125)			SW846 8020/GRO
	95	(75 - 125)	2.9	(0-30)	SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
a,a,a-Trifluorotoluene (TFT)	99	(75 - 125)
	100	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Semivolatiles

Client Lot #....: I7E270113 Work Order #....: C9RF5105-MS Matrix.....: SOLID
 MS Lot-Sample #: I7E270113-011 C9RF5106-MSD
 Date Sampled...: 05/21/97 00:00 Date Received...: 05/24/97
 Prep Date.....: 06/04/97 Analysis Date...: 06/10/97
 Prep Batch #....: 7155235
 Dilution Factor: 1 % Moisture.....: 14

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Diesel Range Organics	111	(40 - 126)			SW846 8015 MOD
	96	(40 - 126)	2.5	(0-30)	SW846 8015 MOD

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
o-Terphenyl	106	(40 - 144)
	113	(40 - 144)
Dotriacontane	55	(42 - 159)
	55	(42 - 159)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

Bold print denotes control parameters

Results and reporting limits have been adjusted for dry weight.

MATRIX SPIKE SAMPLE EVALUATION REPORT

GC Volatiles

Client Lot #....: I7E270113 Work Order #....: C9RTF108-MS Matrix.....: SOLID
 MS Lot-Sample #: I7E280111-001 C9RTF109-MSD
 Date Sampled....: 05/25/97 15:34 Date Received...: 05/28/97
 Prep Date.....: 05/28/97 Analysis Date...: 05/29/97
 Prep Batch #....: 7149212
 Dilution Factor: 50 % Moisture.....: 8.0

PARAMETER	PERCENT RECOVERY	RECOVERY LIMITS	RPD	RPD LIMITS	METHOD
Benzene	92	(75 - 125)			SW846 8020/GRO
	90	(75 - 125)	2.2	(0-30)	SW846 8020/GRO
Toluene	94	(75 - 125)			SW846 8020/GRO
	97	(75 - 125)	2.8	(0-30)	SW846 8020/GRO
Ethylbenzene	93	(75 - 125)			SW846 8020/GRO
	92	(75 - 125)	1.5	(0-30)	SW846 8020/GRO
Xylenes (total)	95	(75 - 125)			SW846 8020/GRO
	97	(75 - 125)	2.1	(0-30)	SW846 8020/GRO
Gasoline Range Organics	80	(75 - 125)			SW846 8020/GRO
	82	(75 - 125)	2.1	(0-30)	SW846 8020/GRO
Methyl tert-butyl ether	87	(75 - 125)			SW846 8020/GRO
	89	(75 - 125)	2.4	(0-30)	SW846 8020/GRO

SURROGATE	PERCENT RECOVERY	RECOVERY LIMITS
Bromofluorobenzene	92	(75 - 125)
	93	(75 - 125)

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
 Results and reporting limits have been adjusted for dry weight.

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #....: I7E270113

Work Order #....: C9REV-SMP
C9REV-DUP

Matrix.....: SOLID

Date Sampled....: 05/21/97 00:00 **Date Received...:** 05/24/97

% Moisture.....: 5.6

PARAM	RESULT	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Percent Moisture	5.6	12.2	%	74	(0-14)	SD Lot-Sample #: I7E270113-004 OCLP OLM03.1	06/02-06/03/97	7153208

Dilution Factor: 1

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.
Results and reporting limits have been adjusted for dry weight.

Lot No.: 17E270113

Condition Upon Receipt Variance Report
Austin Laboratory

Client: Western Technologies

Initiated by/Date: JAK 5/24/97

Project No: _____

RFA/COC Numbers: _____

Analysis Requested: _____

Client Sample Numbers Affected: TJX 124 - MW 1 (1) 40ml
TJX 124 - MW 3 (1) L

Condition/Variance (Check all that apply):

1. ☐ Not enough sample received for proper analysis. Received approximately: _____	8. ☐ Custody tape disturbed/broken/missing.
2. ☐ Sample received broken/leaking.	9. ☐ Sample splits performed by lab.
3. ☐ Sample received without proper preservative. ☐ Cooler temperature not within 4°C ± 2°C Record temperature: _____ ☐ pH _____ ☐ other: _____	10. ☐ Volatile sample received with approximately _____ mm headspace.
4. ☐ Sample received in improper container.	11. ☐ Sample ID on container does not match sample ID on paperwork. Explain: _____
5. ☐ Sample received without proper paperwork. Explain: _____	12. ☐ All coolers on airbill not received with shipment.
6. ☒ Paperwork received without sample.	13. ☐ Other (explain below): _____
7. ☐ No sample ID on sample container.	

Notes: short 1 sample bottle - no problem if aliquot needed
MW3 will have elevated DDO RI due to vol. (40ml only)

Corrective Action:

☐ Client's Name: _____ Informed verbally on: _____ By: _____
☐ Client's Name: _____ Informed in writing on: _____ By: _____

☐ Sample(s) processed "as is". Comments: _____
☐ Sample(s) on hold until: _____ If released, notify: _____

Sample Control Supervisor Review: _____ Date: _____

Project Management Review: [Signature] Date: 5/27/97

SIGNED ORIGINAL MUST BE RETAINED IN THE PROJECT FILE