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LABORATORIES, INC.

1D053A.RPT

Analytical Laboratory Report
TRPH
EPA Method 418.1

Date Sampled:	4/7/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/7/97	**Client:**	Kennedy/Jenks
Report Number:	1D053A.RPT	**Project:**	McDonnell Douglas
Lab Number:	1D053	**Units Soil:**	mg/Kg
Date Reported:	4/8/97	**Units Water:**	ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D053-01	2BB-SA-NE-14-1	4/7/97	4/7/97	29	1	Soil
1D053-02	2BB-SA-NE-14-4	4/7/97	4/7/97	28	1	Soil
1D053-03	2BB-SA-NE-14-6	4/7/97	4/7/97	1200	10	Soil
1D053-04	2BB-SA-NE-14-10	4/7/97	4/7/97	110	1	Soil
1D053-05	2BB-SA-NE-14-15	4/7/97	4/7/97	ND	1	Soil
1D053-06	2BB-SA-NE-14-20	4/7/97	4/7/97	ND	1	Soil
1D053-07	2BB-SA-NE-14-25	4/7/97	4/7/97	ND	1	Soil
1D053-08	2BB-SA-NE-13-1	4/7/97	4/7/97	16	1	Soil
1D053-09	2BB-SA-NE-13-4	4/7/97	4/7/97	ND	1	Soil
1D053-10	2BB-SA-NE-13-10	4/7/97	4/7/97	ND	1	Soil
1D053-11	2BB-SA-NE-13-15	4/7/97	4/7/97	ND	1	Soil
1D053-12	2BB-SA-NE-13-20	4/7/97	4/7/97	ND	1	Soil
1D053-13	2BB-SA-NE-13-25	4/7/97	4/7/97	ND	1	Soil
1D053-14	2BB-SA-NE-10-1	4/7/97	4/7/97	190	1	Soil
1D053-15	2BB-SA-NE-10-4	4/7/97	4/7/97	10	1	Soil
1D053-16	2BB-SA-NE-10-10	4/7/97	4/7/97	ND	1	Soil
1D053-17	2BB-SA-NE-10-15	4/7/97	4/7/97	ND	1	Soil
1D053-18	2BB-SA-NE-10-21	4/7/97	4/7/97	ND	1	Soil
1D053-19	2BB-SA-NE-10-25	4/7/97	4/7/97	ND	1	Soil
1D053-20	2BB-1-29-1	4/7/97	4/7/97	71	1	Soil
1D053-21	2BB-1-29-4	4/7/97	4/7/97	1100	10	Soil
1D053-22	2BB-1-29-10	4/7/97	4/7/97	ND	1	Soil
1D053-23	2BB-1-28-1	4/7/97	4/7/97	61	1	Soil
1D053-24	2BB-1-28-4	4/7/97	4/7/97	87	1	Soil
1D053-25	2BB-1-28-10	4/7/97	4/7/97	ND	1	Soil

Reporting Limits SOIL mg/Kg	10

NOTES
NR - Not requested
ND - Analytes not detected at or above the reporting limit
mg/Kg - Milligrams per kilogram (PPM)
ug/L - Micrograms per liter (PPB)
PQL - Practical Quantitation Limit. Equals detection limit times the dilution factor
M - Matrix effects
DF - Dilution Factor

PROCEDURES
TRPH - This analysis was performed using EPA Method 418.1

CERTIFICATION
California Department of Health Services ELAP
Onsite Environmental Laboratories 5500 Bissell Common Fremont, CA 94538 (510) 490-8571

Gareth Voigt
Laboratory Director

MAY 0 7 1997
Date

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ONSITE
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LABORATORIES, INC.

Analytical Laboratory Report
TPH-E Diesel, TPH-E Motor Oil
EPA Method 8015 Modified

Date Sampled: 4/7/97
Date Received: 4/7/97
Report Number: 1D053E.RPT
Lab Number: 1D053
Date Reported: 4/21/97

Proj Mgr: Rus Purcell
Client: Kennedy/Jenks
Project: 974002.00
Units Soil: mg/Kg

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TPH-E Diesel	TPH-E Motor Oil	TPH-E Sur. %	TPH-E DF	Matrix
1D053-03	**2BB-SA-NE-14-6**	4/15/97	4/15/97	**68***	**33**	102	1	Soil
1D053-04	**2BB-SA-NE-14-10**	4/15/97	4/19/97	**700***	ND	D	5	Soil
1D053-14	**2BB-SA-NE-10-1**	4/15/97	4/15/97	ND	ND	90	1	Soil
1D053-20	**2BB-1-29-1**	4/15/97	4/15/97	ND	ND	85	1	Soil
1D053-21	**2BB-1-29-4**	4/15/97	4/15/97	ND	**4800***	D	10	Soil
1D053-23	**2BB-1-28-1**	4/15/97	4/19/97	ND	ND	95	1	Soil
1D053-24	**2BB-1-28-4**	4/15/97	4/16/97	ND	ND	90	1	Soil
Reporting Limits SOIL mg/Kg				10	10			

NOTES:
NR - Not requested
NC - Not confirmed
ND - Analytes not detected at, or above the reporting limit
Sur % - Percent surrogate recovery
mg/Kg - Milligrams per kilogram (PPM)
PQL - Practical Quantitation Limit Equals detection limit times the dilution factor
D - Surrogate was diluted out
M - Matrix effects
DF - Dilution Factor
* - Sample chromatogram does not match standard chromatogram
TPH-E Diesel - Total petroleum hydrocarbons extractable quantitated as Diesel
TPH-E Motor Oil - Total petroleum hydrocarbons extractable quantitated as Motor Oil

PROCEDURES:
TPH-E - This analysis was performed using EPA Method 8015 Mod and EPA Method 3550B

CERTIFICATION:
California Department of Health Services ELAP
Onsite Environmental Laboratories, 5500 Boscell Common, Fremont, CA 94538 (510) 490-8571

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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RECEIVED
MAY 15 1997

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 974002.00 **REPORTING UNITS : µg/Kg**

DATE ANALYZED			4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D053-01	1D053-02	1D053-03	1D053-04	1D053-05	1D053-06	1D053-07
CLIENT SAMPLE ID : 2BB-			SA-NE-14-1	SA-NE-14-4	SA-NE-14-6	SA-NE-14-10	SA-NE-14-15	SA-NE-14-20	SA-NE-14-25
EXTRACTION SOLVENT									
EXTRACTION METHOD									
DILUTION FACTOR			1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	**56**	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	**13000***	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	102%	104%	137% M	103%	100%	105%	104%
Toluene-d8	50	80%-115%	102%	104%	97%	103%	102%	103%	103%
4-Bromofluorobenzene	50	75%-125%	93%	97%	93%	97%	101%	102%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed
* - Sample chromatogram does not match gasoline standard chromatogram

Gareth Voigt
Laboratory Director

MAY 12 1997
Date

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LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 **Project No: 974002.00** **REPORTING UNITS : µg/Kg**

DATE ANALYZED			4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D053-08	1D053-09	1D053-10	1D053-11	1D053-12	1D053-13	1D053-14
CLIENT SAMPLE ID : 2BB-			SA-NE-13-1	SA-NE-13-4	SA-NE-13-10	SA-NE-13-15	SA-NE-13-20	SA-NE-13-25	SA-NE-10-1
EXTRACTION SOLVENT									
EXTRACTION METHOD									
DILUTION FACTOR			1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	31	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	12	ND	ND	ND	110	5.1	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	102%	104%	104%	102%	105%	106%	102%
Toluene-d8	50	80%-115%	104%	104%	103%	105%	106%	107%	103%
4-Bromofluorobenzene	50	75%-125%	100%	101%	102%	98%	96%	95%	101%

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 Project No: 974002.00 REPORTING UNITS : µg/Kg

DATE ANALYZED			4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97	4/7/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D053-15	1D053-16	1D053-17	1D053-18	1D053-19	1D053-20	1D053-21
CLIENT SAMPLE ID : 2BB-			SA-NE-10-4	SA-NE-10-10	SA-NE-10-15	SA-NE-10-21	SA-NE-10-25	1-29-1	1-29-4
EXTRACTION SOLVENT									
EXTRACTION METHOD									
DILUTION FACTOR			1	1	1	1	1	1	1
COMPOUND		CRDL							
Benzene		5	ND	ND	ND	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	104%	104%	102%	105%	105%	103%	103%
Toluene-d8	50	80%-115%	101%	103%	103%	104%	104%	102%	102%
4-Bromofluorobenzene	50	75%-125%	102%	101%	98%	95%	95%	101%	100%

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

METHOD : EPA 8260 | Project No: 974002.00 | REPORTING UNITS : µg/Kg

DATE ANALYZED			4/7/97	4/7/97	4/7/97	4/7/97
DATE EXTRACTED			N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D053-22	1D053-23	1D053-24	1D053-25
CLIENT SAMPLE ID : 2BB-			1-29-10	1-28-1	1-28-4	1-28-10
EXTRACTION SOLVENT						
EXTRACTION METHOD						
DILUTION FACTOR			1	1	1	1
COMPOUND		CRDL				
Benzene		5	ND	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND	ND
Bromoform		5	ND	ND	ND	ND
Bromomethane		5	ND	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND	ND
Chlorobenzene		5	ND	ND	ND	ND
Chloroethane		5	ND	ND	ND	ND
Chloroform		5	ND	ND	ND	ND
Chloromethane		5	ND	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND	ND
Ethyl benzene		5	ND	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND	ND
Toluene		5	ND	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND	ND
o-Xylene		5	ND	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	105%	102%	105%	105%
Toluene-d8	50	80%-115%	103%	105%	104%	102%
4-Bromofluorobenzene	50	75%-125%	100%	96%	95%	95%

Notes :

ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ENVIRONMENTAL
LABORATORIES, INC.

QC DATA REPORT
TPH-E
EPA Method 8015 Modified

Date Sampled:	4/2/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/2/97	**Client:**	Kennedy/Jenks
Date Analyzed:	4/15/97, 4/19/97	**Project:**	974002.00
Date Extracted:	4/15/97	**Matrix:**	Soil
Report Number:	0415SD.QAC	**Units:**	mg/Kg
Lab Number:	DIESEL: 2BB-1-28-1, 1D053-23 MOTOR OIL: 2BB-2-25-1, 1D056-49		

Parameter	Blank Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
TPH-E diesel	ND	100	76.4	76	0.0	105	105	126	126	18.2
TPH-E mo	ND	107	116	108	56.6	141	79	157	94	10.7
surr %rec dies.	102			81	95		89		109	
surr %rec mo				83	81		86		85	

DEFINITION OF TERMS:

ND - Analytes not detected at or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference (MS - MSD) /((MS + MSD)/2) X 100
LCS - Laboratory Control Spike
LCSD- Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TPH-E	65%	to	135%
%RPD	0%	to	35%

Printed on recycled paper.

ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled:	4/7/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/7/97	**Client:**	Kennedy/Jenks
Date Analyzed:	4/7/97	**Project:**	974002.00
Date Extracted:	4/7/97	**Matrix:**	Soil
Report Number:	0407B.QAC	**Units:**	mg/Kg
Lab Number:	2BB-1-28-10. 1D053-25		

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	-	25.0	28.1	112	0.0	28.1	112	30.5	122	8.2

DEFINITION OF TERMS:

ND - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference (MS - MSD) ÷ ((MS + MSD)/2) X 100
LCS - Laboratory Control Spike
LCSD- Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	to	140%
%RPD	0%	to	35%

Printed on recycled paper.

ONSITE
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LABORATORIES, INC.

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled:	4/7/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/7/97	**Client:**	Kennedy/Jenks
Date Analyzed:	4/7/97	**Project:**	974002.00
Date Extracted:	4/7/97	**Matrix:**	Soil
Report Number:	0407A.QAC	**Units:**	mg/Kg
Lab Number:	2BB-SA-NE-10-15, 1D053-17		

Parameter	Blank 1 Result mg/Kg	Blank 2 Result mg/Kg	Spike Level mg/Kg	LCS Result mg/Kg	LCS Recov. %	Sample Result mg/Kg	MS Result mg/Kg	MS Recov. %	MSD Result mg/Kg	MSD Recov. %	RPD %
418.1	ND	ND	25.0	26.3	105	0.0	26.7	107	29.5	118	10.0

DEFINITION OF TERMS:

ND - Analytes not detected at, or above the reporting limit
MS - Matrix Spike
MSD - Matrix Spike Duplicate
RPD - Relative Percent Difference (MS - MSD) / ((MS + MSD)/2) X 100
LCS - Laboratory Control Spike
LCSD- Laboratory Control Spike Duplicate

LABORATORY QC CRITERIA

Parameter	Acceptable % Recoveries		
TRPH	60%	to	140%
%RPD	0%	to	35%

Printed on recycled paper.

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 Project No: 974002.00 **REPORTING UNITS : µg/L - LCS**
µg/Kg - MB

DATE PERFORMED: 4/7/97
SUPPLY SOURCE: Absolute Standards, Inc. **LAB LCS ID:** LCS 4/7 #1 MS2
LOT NUMBER: 012095(gases), 051596(liq.)
DATE OF SOURCE: 3/14/97

ANALYTE		MB 4/7 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	27.1	108%	85%-115%
Bromodichloromethane		ND	25	27.3	109%	85%-115%
Bromoform		ND	25	27.9	112%	85%-115%
Bromomethane		ND	25	24.3	97%	85%-115%
Carbon tetrachloride		ND	25	25.5	102%	85%-115%
Chlorobenzene		ND	25	26.7	107%	85%-115%
Chloroethane		ND	25	25.5	102%	85%-115%
Chloroform		ND	25	26.7	107%	85%-115%
Chloromethane		ND	25	26.5	106%	85%-115%
Dibromochloromethane		ND	25	27.2	109%	85%-115%
1,2-Dichlorobenzene		ND	25	27.4	110%	85%-115%
1,3-Dichlorobenzene		ND	25	26.9	108%	85%-115%
1,4-Dichlorobenzene		ND	25	26.3	105%	85%-115%
Dichlorodifluoromethane (Freon 12)		ND	25	27.8	111%	85%-115%
1,1-Dichloroethane (1,1-DCA)		ND	25	26.9	108%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	27.5	110%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	28.3	113%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)		ND	25	27.0	108%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	26.0	104%	85%-115%
1,2-Dichloropropane		ND	25	27.5	110%	85%-115%
cis-1,3-Dichloropropene		ND	25	27.1	108%	85%-115%
trans-1,3-Dichloropropene		ND	25	27.3	109%	85%-115%
Ethyl benzene		ND	25	26.9	108%	85%-115%
Methylene chloride (Dichloromethane)		ND	25	27.0	108%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	26.6	107%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	28.1	112%	85%-115%
Tetrachloroethene (PCE)		ND	25	27.3	109%	85%-115%
Toluene		ND	25	27.5	110%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	24.9	100%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	29.1	116%	85%-115%
Trichloroethene (TCE)		ND	25	26.9	108%	85%-115%
Trichlorofluoromethane (Freon 11)		ND	25	23.4	94%	85%-115%
m,p-Xylenes		ND	50	52.8	106%	85%-115%
o-Xylene		ND	25	26.1	104%	85%-115%
Vinyl chloride (VC)		ND	25	23.2	93%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	101%		101%		
Toluene-d8	50	104%		104%		
4-Bromofluorobenzene	50	97%		103%		

Notes : ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 **REPORTING UNITS : µg/Kg**

DATE PERFORMED: 4/7/97
BATCH #: 0407-1
LAB SAMPLE ID #: 1D050-11 - EPA 8260
1D050-04 - Gasoline

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	124	99%	125	136	109%	10%	70%-130%	20
Chlorobenzene		ND	125	116	93%	125	128	103%	10%	70%-130%	20
Chloroform		ND	125	129	103%	125	141	113%	9%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)		ND	125	130	104%	125	140	112%	8%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)		ND	125	135	108%	125	155	124%	14%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)		ND	125	124	99%	125	133	106%	7%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	120	96%	125	133	106%	10%	70%-130%	20
Toluene		ND	125	125	100%	125	136	109%	9%	70%-130%	20
Trichloroethene (TCE)		2.6	125	126	98%	125	137	108%	9%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	102%		109%			108%				
Toluene-d8	50	105%		106%			107%				
4-Bromofluorobenzene	50	98%		98%			99%				

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
TPH as gasoline		660	5000	6601	119%	5000	6460	116%	2%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	102%		104%			105%				
Toluene-d8	50	105%		104%			106%				
4-Bromofluorobenzene	50	98%		99%			101%				

Notes :
ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

Printed on recycled paper.

ONSITE ENVIRONMENTAL LABORATORIES, INC.

LABORATORY QA/QC REPORT FOR ORGANICS

Laboratory Quality Control Check Sample (LCS)

METHOD : EPA 8260 Project No: 974002.00 **REPORTING UNITS : µg/L - LCS**
µg/Kg - MB

DATE PERFORMED: 4/7/97
SUPPLY SOURCE: Absolute Standards, Inc. **LAB LCS ID:** LCS 4/7 #1 MS3
LOT NUMBER: 012095(gases), 051596(liq.)
DATE OF SOURCE: 3/14/97

ANALYTE		MB 4/7 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	26.8	107%	85%-115%
Bromodichloromethane		ND	25	26.2	105%	85%-115%
Bromoform		ND	25	26.3	105%	85%-115%
Bromomethane		ND	25	21.8	87%	85%-115%
Carbon tetrachloride		ND	25	26.6	106%	85%-115%
Chlorobenzene		ND	25	26.5	106%	85%-115%
Chloroethane		ND	25	26.1	104%	85%-115%
Chloroform		ND	25	27.0	108%	85%-115%
Chloromethane		ND	25	23.9	95%	85%-115%
Dibromochloromethane		ND	25	26.3	105%	85%-115%
1,2-Dichlorobenzene		ND	25	26.7	107%	85%-115%
1,3-Dichlorobenzene		ND	25	26.3	105%	85%-115%
1,4-Dichlorobenzene		ND	25	26.6	106%	85%-115%
Dichlorodifluoromethane (Freon 12)		ND	25	26.3	105%	85%-115%
1,1-Dichloroethane (1,1-DCA)		ND	25	27.0	108%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	26.3	105%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	28.2	113%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)		ND	25	27.4	109%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	27.8	111%	85%-115%
1,2-Dichloropropane		ND	25	26.4	106%	85%-115%
cis-1,3-Dichloropropene		ND	25	26.2	105%	85%-115%
trans-1,3-Dichloropropene		ND	25	26.3	105%	85%-115%
Ethyl benzene		ND	25	24.0	96%	85%-115%
Methylene chloride (Dichloromethane)		ND	25	27.4	110%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	25.4	102%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	27.4	110%	85%-115%
Tetrachloroethene (PCE)		ND	25	26.7	107%	85%-115%
Toluene		ND	25	26.1	104%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	27.1	108%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	26.8	107%	85%-115%
Trichloroethene (TCE)		ND	25	26.7	107%	85%-115%
Trichlorofluoromethane (Freon 11)		ND	25	23.1	92%	85%-115%
m,p-Xylenes		ND	50	53.7	107%	85%-115%
o-Xylene		ND	25	27.0	108%	85%-115%
Vinyl chloride (VC)		ND	25	20.1	80%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	105%		105%		
Toluene-d8	50	102%		103%		
4-Bromofluorobenzene	50	103%		103%		

Notes : ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Project No: 974002.00

LABORATORY QA/QC REPORT FOR ORGANICS

METHOD : EPA 8260 **REPORTING UNITS : µg/Kg**

DATE PERFORMED: 4/7/97
BATCH #: 0407-2
LAB SAMPLE ID #: 1D053-05

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	131	105%	125	126	101%	4%	70%-130%	20
Chlorobenzene		ND	125	128	102%	125	122	98%	4%	70%-130%	20
Chloroform		ND	125	136	109%	125	130	104%	5%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)		ND	125	137	109%	125	130	104%	5%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)		ND	125	135	108%	125	128	102%	5%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)		ND	125	124	99%	125	119	96%	4%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	170	136%	125	174	140%	3%	70%-130%	20
Toluene		ND	125	130	104%	125	125	100%	4%	70%-130%	20
Trichloroethene (TCE)		ND	125	132	105%	125	128	103%	3%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	100%		105%			104%				
Toluene-d8	50	102%		103%			104%				
4-Bromofluorobenzene	50	101%		101%			101%				

Notes :
ND - Analytes not detected at, or above the stated detection limit
PQL - Practical Quantitation Limit - Multiply DL by the DF to obtain the PQL for a specific sample
M - Matrix effect confirmed

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ONSITE
ENVIRONMENTAL
LABORATORIES, INC.

Daily Project Report

(To be kept with the daily project data files)

Project: Kennedy / Jenks DAC

Date: 4/7/97

ONSITE Analysts/Technicians: MY, NW, AF, JJ

Project Status (Circle One): Analyze Samples Standby Mob/Demob

Normal Hours and Overtime Hours Worked:

Normal Hours 10

Overtime Hours

Reason for Overtime

Sample Volume and Matrix

Samples Received and Matrix 25 soils for 8260 (8010/8020 list) & 418.1

Time Last Samples Received 15:45

Client Issues Raised:

ONSITE Action Plan:

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CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

ONSITE
ENVIRONMENTAL LABORATORIES, INC.

[redacted]

Date:	4-7-97
Page:	2 of 2
Laboratory:	
Lab Number:	

Project Manager:	Rus Purcell
Client Name:	DAC
Address:	
City, State ZIP	
Phone:	
Fax:	

Project Name:	DAC
Project Number:	974002.00

Bill to:	
Company:	Kennedy / Jenks
Address:	2151 Michelson Dr. Suite 100
City, State ZIP	Irvine CA. 92715
Phone:	714-261-1577
Fax:	

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	8000/8020 by GC/MS	418.1				No. Containers	Remarks
2BB-SA-NE-10-1	4-7-97	1250	Soil	SCS	1405		10053-14				X	X					
2BB-SA-NE-10-4	"	1300	"	SCS	"		15				X	X					
2BB-SA-NE-10-10	"	1307	"	SCS	"		16				X	X					
2BB-SA-NE-10-15	"	1309	"	SCS	"		17				X	X					
2BB-SA-NE-10-21	"	1325	"	SCS	"		18				X	X					
2BB-SA-NE-10-25	"	1330	"	SCS	"		19				X	X					
2BB-1-29-1 SCS	"	1433	"	SCS	1500		20				X	X					
2BB-1-29-4	"	1438	"	SCS	"		21				X	X					
2BB-1-29-10	"	1448	"	SCS	"		22				X	X					
2BB-1-28-1	"	1510	"	SCS	1545		23				X	X					
2BB-1-28-4	"	1517	"	SCS	"		24				X	X					
2BB-1-28-10	"	1535	"	SCS	"		25				X	X					

Initials:	Printed Name:	Signature:		
SCS	Shane Scrimshire	[signature]	Date:	
MY	Michael Yurovsky	Michael Yurovsky	Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White Copy - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0145059

CHAIN OF CUSTODY RECOR AND ANALYSIS REQUEST

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

5500 Boscell Common Fremont, CA 94538 Tel. (510) 490-8571 Fax. (510) 490-8572

Project Manager:	Rus Purcell
Client Name:	DAC
Address:	
City, State ZIP	
Phone:	
Fax:	

Bill to:	
Company:	Kennedy / Jenks
Address:	2151 Michelson Dr. Suite 100
City, State ZIP	Irvine CA. 92715
Phone:	714-261-1577
Fax:	

Date:	4-7-97
Page:	1 of 2
Laboratory:	
Lab Number:	

Project Name:	PAC
Project Number:	974002.00

P.O. No.:	

Analysis Requested

Sample Identification	Date Sampled	Time Sampled	Matrix	Sampled & Relinquished By:	Time Relinquished:	Received By:	Lab ID	BTEX (8021)	TPH - Gas (8015M)	TPH - Diesel (8015M)	8010/8020 By SCAQMS	418.1				No. Containers	Remarks
2BB-SA-NE-14-1	4-7-97	0905	Soil	SLS	1040	MY	10053-01				X	X					
2BB-SA-NE-14-4	"	0910	"	SLS	"		02				X	X					
2BB-SA-NE-14-6	"	0915	"	SLS	"		03				X	X					
2BB-SA-NE-14-10	"	0928	"	SLS	"		04				X	X					
2BB-SA-NE-14-15	"	0933	"	SLS	"		05				X	X					
2BB-SA-NE-14-20	"	0940	"	SLS	"		06				X	X					
2BB-SA-NE-14-25	"	0950	"	SLS	"		07				X	X					
2BB-SA-NE-13-1	"	1025	"	SLS	1145		08				X	X					
2BB-SA-NE-13-4	"	1033	"	SLS	"		09				X	X					
2BB-SA-NE-13-10	"	1040	"	SLS	"		10				X	X					
2BB-SA-NE-13-15	"	1050	"	SLS	"		11				X	X					
2BB-SA-NE-13-20	"	1107	"	SLS	"		12				X	X					
2BB-SA-NE-13-25	"	1120	"	SLS	"		13				X	X					

Initials:	Printed Name:	Signature:		
SLS	Shaine Scrimshire	[signature]	Date:	
MY	Michael Yurovsky	Michael Yurovsky	Start Time:	
			Stop Time:	
			Hours:	
			Client Sign-off:	

Total Containers:	
Received Intact:	
Received Cold:	
Custody Seals:	

White - Original - Admin/Lab Yellow - Mobile Lab Pink - Client

BOE-C6-0145060