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Analytical Laboratory Report
TRPH
EPA Method 418.1

Date Sampled:	4/8/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/8/97	**Client:**	Kennedy/Jenks
Report Number:	1D054A.RPT	**Project:**	McDonnell Douglas
Lab Number:	1D054	**Units Soil:**	mg/Kg
Date Reported:	4/9/97	**Units Water:**	ug/L

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TRPH	Dilution Factor	Matrix
1D054-01	2BB-SA-NE-16-1	4/8/97	4/8/97	ND	1	Soil
1D054-02	2BB-SA-NE-16-4	4/8/97	4/8/97	ND	1	Soil
1D054-03	2BB-SA-NE-16-10	4/8/97	4/8/97	ND	1	Soil
1D054-04	2BB-SA-NE-15-1	4/8/97	4/8/97	12	1	Soil
1D054-05	2BB-SA-NE-15-4	4/8/97	4/8/97	ND	1	Soil
1D054-06	2BB-SA-NE-15-10	4/8/97	4/8/97	ND	1	Soil
1D054-07	2BB-SA-NE-15-15	4/8/97	4/8/97	ND	1	Soil
1D054-08	2BB-SA-NE-15-20	4/8/97	4/8/97	ND	1	Soil
1D054-09	2BB-SA-NE-15-25	4/8/97	4/8/97	ND	1	Soil
1D054-10	2BB-1-27-1	4/8/97	4/8/97	140	1	Soil
1D054-11	2BB-1-27-4	4/8/97	4/8/97	77	1	Soil
1D054-12	2BB-1-27-10	4/8/97	4/8/97	16	1	Soil
1D054-13	2BB-1-31-1	4/8/97	4/8/97	51	1	Soil
1D054-14	2BB-1-31-4	4/8/97	4/8/97	ND	1	Soil
1D054-15	2BB-1-31-10	4/8/97	4/8/97	ND	1	Soil
1D054-16	2BB-1-30-1	4/8/97	4/8/97	86	1	Soil
1D054-17	2BB-1-30-4	4/8/97	4/8/97	15	1	Soil
1D054-18	2BB-1-30-10	4/8/97	4/8/97	ND	1	Soil
1D054-19	2BB-1-33-1	4/8/97	4/8/97	14	1	Soil
1D054-20	2BB-1-33-4	4/8/97	4/8/97	29	1	Soil
1D054-21	2BB-1-33-10	4/8/97	4/8/97	ND	1	Soil
1D054-22	2BB-1-32-1	4/8/97	4/8/97	ND	1	Soil
1D054-23	2BB-1-32-4	4/8/97	4/8/97	65	1	Soil
1D054-24	2BB-1-32-10	4/8/97	4/8/97	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 5510 Boscell Common Fremont, CA 94538 (510) 490-8571

Gareth Voigt
Laboratory Director

MAY 07 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:	4/8/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/8/97	**Client:**	Kennedy/Jenks
Report Number:	1D054E.RPT	**Project:**	974002.00
Lab Number:	1D054	**Units Soil:**	mg/Kg
Date Reported:	4/16/97		

Lab ID No.	Field ID No.	Date Extracted	Date Analyzed	TPH-E Diesel	TPH-E Motor Oil	TPH-E Sur. %	TPH-E DF	Matrix
1D054-10	**2BB-1-27-1**	4/9/97	4/15/97	ND	**230***	135	1	Soil
1D054-11	**2BB-1-27-4**	4/9/97	4/9/97	ND	ND	87	1	Soil
1D054-13	**2BB-1-31-1**	4/9/97	4/15/97	ND	**52***	86	1	Soil
1D054-16	**2BB-1-30-1**	4/9/97	4/9/97	ND	**31***	73	1	Soil
1D054-23	**2BB-1-32-4**	4/9/97	4/9/97	ND	ND	88	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 Bonsell Common, Fremont, CA 94538 (510) 490-8571

Gareth Voigt
Laboratory Director

MAY 07 1997
Date

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ONSITE
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LABORATORIES, INC.

LABORATORY ANALYTICAL REPORT FOR ORGANICS

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

DATE ANALYZED			4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D054-01	1D054-02	1D054-03	1D054-04	1D054-05	1D054-06	1D054-07
CLIENT SAMPLE ID : 2BB-			SA-NE-16-1	SA-NE-16-4	SA-NE-16-10	SA-NE-15-1	SA-NE-15-4	SA-NE-15-10	SA-NE-15-15
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	8.8	7.1	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%	101%	101%	103%	100%	100%	104%	104%
Toluene-d8	50	80%-115%	102%	103%	103%	103%	103%	103%	104%
4-Bromofluorobenzene	50	75%-125%	101%	103%	104%	95%	101%	97%	99%

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
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LABORATORY ANALYTICAL REPORT FOR ORGANICS

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

DATE ANALYZED			4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D054-08	1D054-09	1D054-10	1D054-11	1D054-12	1D054-13	1D054-14
CLIENT SAMPLE ID : 2BB-			SA-NE-15-20	SA-NE-15-25	1-27-1	1-27-4	1-27-10	1-31-1	1-31-4
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	7.7	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%	107%	107%	103%	104%	107%	102%	104%
Toluene-d8	50	80%-115%	102%	105%	101%	102%	104%	103%	104%
4-Bromofluorobenzene	50	75%-125%	97%	97%	101%	100%	95%	95%	96%

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			4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97	4/8/97
DATE EXTRACTED			N/A	N/A	N/A	N/A	N/A	N/A	N/A
LAB SAMPLE ID			1D054-15	1D054-16	1D054-17	1D054-18	1D054-19	1D054-20	1D054-21
CLIENT SAMPLE ID : 2BB-			1-31-10	1-30-1	1-30-4	1-30-10	1-33-1	1-33-4	1-33-10
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	22	40	40
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%	104%	105%	104%	102%	104%
Toluene-d8	50	80%-115%	105%	102%	102%	103%	105%	103%	103%
4-Bromofluorobenzene	50	75%-125%	98%	102%	102%	101%	99%	98%	97%

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			4/8/97	4/8/97	4/8/97
DATE EXTRACTED			N/A	N/A	N/A
LAB SAMPLE ID			1D054-22	1D054-23	1D054-24
CLIENT SAMPLE ID : 2BB-			1-32-1	1-32-4	1-32-10
EXTRACTION SOLVENT					
EXTRACTION METHOD					
DILUTION FACTOR			1	1	1
COMPOUND		CRDL			
Benzene		5	ND	ND	ND
Bromodichloromethane		5	ND	ND	ND
Bromoform		5	ND	ND	ND
Bromomethane		5	ND	ND	ND
Carbon tetrachloride		5	ND	ND	ND
Chlorobenzene		5	ND	ND	ND
Chloroethane		5	ND	ND	ND
Chloroform		5	ND	ND	ND
Chloromethane		5	ND	ND	ND
Dibromochloromethane		5	ND	ND	ND
1,2-Dichlorobenzene		5	ND	ND	ND
1,3-Dichlorobenzene		5	ND	ND	ND
1,4-Dichlorobenzene		5	ND	ND	ND
Dichlorodifluoromethane (Freon 12)		5	ND	ND	ND
1,1-Dichloroethane (1,1-DCA)		5	ND	ND	ND
1,2-Dichloroethane (1,2-DCA)		5	ND	ND	ND
1,1-Dichloroethene (1,1-DCE)		5	ND	ND	ND
cis-1,2-Dichloroethene (c-1,2-DCE)		5	ND	ND	ND
trans-1,2-Dichloroethene (t-1,2-DCE)		5	ND	ND	ND
1,2-Dichloropropane		5	ND	ND	ND
cis-1,3-Dichloropropene		5	ND	ND	ND
trans-1,3-Dichloropropene		5	ND	ND	ND
Ethyl benzene		5	ND	ND	ND
Methylene chloride (Dichloromethane)		5	ND	ND	ND
1,1,1,2-Tetrachloroethane		5	ND	ND	ND
1,1,2,2-Tetrachloroethane		5	ND	ND	ND
Tetrachloroethene (PCE)		5	ND	ND	ND
Toluene		5	ND	ND	ND
1,1,1-Trichloroethane (1,1,1-TCA)		5	ND	ND	ND
1,1,2-Trichloroethane (1,1,2-TCA)		5	ND	ND	ND
Trichloroethene (TCE)		5	ND	ND	ND
Trichlorofluoromethane (Freon 11)		5	ND	ND	ND
m,p-Xylenes		5	ND	ND	ND
o-Xylene		5	ND	ND	ND
Vinyl chloride (VC)		5	ND	ND	ND
TPH as gasoline		1000	ND	ND	ND
SURROGATE	SPK conc	ACP %	%RC	%RC	%RC
Dibromofluoromethane	50	75%-110%	102%	104%	103%
Toluene-d8	50	80%-115%	102%	103%	103%
4-Bromofluorobenzene	50	75%-125%	101%	102%	104%

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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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:	4/9/97, 4/15/97	**Project:**	974002.00
Date Extracted:	4/9/97	**Matrix:**	Soil
Report Number:	0409SD.QAC	**Units:**	mg/Kg
Lab Number:	DIESEL: 2BB-SA-NE-11-4, 1D052-38 MOTOR OIL: 2BB-1-31-1, 1D054-13		

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	50.0	57.8	116	0.0	58.4	117	47.1	94	21.4
TPH-E mo	ND	53.7	59.4	111	52	106	101	95.5	81	10.4
surr %rec dies.	94			92	104		96		104	
surr %rec mo				93	86		86		87	

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:	4/8/97	**Proj Mgr:**	Rus Purcell
Date Received:	4/8/97	**Client:**	Kennedy/Jenks
Date Analyzed:	4/8/97	**Project:**	974002.00
Date Extracted:	4/8/97	**Matrix:**	Soil
Report Number:	0408b.QAC	**Units:**	mg/Kg
Lab Number:	2BB-1-30-10, 1D054-18		

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	29.1	116	0.0	26.0	104	25.6	102	1.6

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.

QC DATA REPORT
TRPH
EPA Method 418.1

Date Sampled:	4/8/97	**Proj Mgr:**	Rus Purcell'
Date Received:	4/8/97	**Client:**	Kennedy/Jenks
Date Analyzed:	4/8/97	**Project:**	974002.00
Date Extracted:	4/8/97	**Matrix:**	Soil
Report Number:	0408a.QAC	**Units:**	mg/Kg
Lab Number:	2BB-SA-NE-15-20, 1D054-08		

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	27.4	110	0.0	29.1	116	29.5	118	1.4

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: 4/8/97
SUPPLY SOURCE: Absolute Standards, Inc. **LAB LCS ID:** LCS 4/8 #1 MS2
LOT NUMBER: 012095(gases), 051596(liq.)
DATE OF SOURCE: 3/14/97

ANALYTE		MB 4/8 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	28.0	112%	85%-115%
Bromodichloromethane		ND	25	27.8	111%	85%-115%
Bromoform		ND	25	29.3	117%	85%-115%
Bromomethane		ND	25	23.1	92%	85%-115%
Carbon tetrachloride		ND	25	26.0	104%	85%-115%
Chlorobenzene		ND	25	27.3	109%	85%-115%
Chloroethane		ND	25	26.2	105%	85%-115%
Chloroform		ND	25	27.2	109%	85%-115%
Chloromethane		ND	25	27.1	109%	85%-115%
Dibromochloromethane		ND	25	28.2	113%	85%-115%
1,2-Dichlorobenzene		ND	25	27.7	111%	85%-115%
1,3-Dichlorobenzene		ND	25	27.0	108%	85%-115%
1,4-Dichlorobenzene		ND	25	26.6	107%	85%-115%
Dichlorodifluoromethane (Freon 12)		ND	25	27.2	109%	85%-115%
1,1-Dichloroethane (1,1-DCA)		ND	25	27.1	108%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	28.4	114%	85%-115%
1,1-Dichloroethene (1,1-DCE)		ND	25	28.4	113%	85%-115%
cis-1,2-Dichloroethene (c-1,2-DCE)		ND	25	27.6	110%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	26.9	107%	85%-115%
1,2-Dichloropropane		ND	25	28.0	112%	85%-115%
cis-1,3-Dichloropropene		ND	25	28.4	114%	85%-115%
trans-1,3-Dichloropropene		ND	25	28.2	113%	85%-115%
Ethyl benzene		ND	25	27.1	108%	85%-115%
Methylene chloride (Dichloromethane)		ND	25	27.2	109%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	27.3	109%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	28.9	115%	85%-115%
Tetrachloroethene (PCE)		ND	25	27.4	110%	85%-115%
Toluene		ND	25	27.4	110%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	25.5	102%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	29.7	119%	85%-115%
Trichloroethene (TCE)		ND	25	27.7	111%	85%-115%
Trichlorofluoromethane (Freon 11)		ND	25	23.2	93%	85%-115%
m,p-Xylenes		ND	50	53.3	107%	85%-115%
o-Xylene		ND	25	27.0	108%	85%-115%
Vinyl chloride (VC)		ND	25	22.2	89%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	101%		101%		
Toluene-d8	50	103%		104%		
4-Bromofluorobenzene	50	98%		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: 4/8/97
BATCH #: 0408-1
LAB SAMPLE ID #: 1D054-12

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	113	91%	125	127	101%	11%	70%-130%	20
Chlorobenzene		ND	125	114	91%	125	126	100%	10%	70%-130%	20
Chloroform		ND	125	117	94%	125	130	104%	11%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)		ND	125	116	93%	125	130	104%	11%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)		ND	125	124	99%	125	142	113%	13%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)		ND	125	109	87%	125	119	95%	9%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	143	115%	125	165	132%	14%	70%-130%	20
Toluene		ND	125	115	92%	125	128	103%	11%	70%-130%	20
Trichloroethene (TCE)		ND	125	113	90%	125	128	102%	13%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	107%		105%			105%				
Toluene-d8	50	104%		104%			104%				
4-Bromofluorobenzene	50	95%		102%			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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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: 4/8/97
SUPPLY SOURCE: Absolute Standards, Inc. **LAB LCS ID:** LCS 4/8 #1 MS3
LOT NUMBER: 012095(gases), 051596(liq.)
DATE OF SOURCE: 3/14/97

ANALYTE		MB 4/8 #1	SPIKE CONC	RESULT	%RECOVERY	ACP %REC LIMIT
Benzene		ND	25	27.1	108%	85%-115%
Bromodichloromethane		ND	25	26.4	106%	85%-115%
Bromoform		ND	25	25.8	103%	85%-115%
Bromomethane		ND	25	22.4	90%	85%-115%
Carbon tetrachloride		ND	25	26.8	107%	85%-115%
Chlorobenzene		ND	25	26.5	106%	85%-115%
Chloroethane		ND	25	26.9	107%	85%-115%
Chloroform		ND	25	27.4	110%	85%-115%
Chloromethane		ND	25	25.1	100%	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	26.2	105%	85%-115%
1,4-Dichlorobenzene		ND	25	26.5	106%	85%-115%
Dichlorodifluoromethane (Freon 12)		ND	25	26.4	105%	85%-115%
1,1-Dichloroethane (1,1-DCA)		ND	25	27.6	110%	85%-115%
1,2-Dichloroethane (1,2-DCA)		ND	25	26.7	107%	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	28.0	112%	85%-115%
trans-1,2-Dichloroethene (t-1,2-DCE)		ND	25	28.0	112%	85%-115%
1,2-Dichloropropane		ND	25	26.7	107%	85%-115%
cis-1,3-Dichloropropene		ND	25	26.6	106%	85%-115%
trans-1,3-Dichloropropene		ND	25	26.5	106%	85%-115%
Ethyl benzene		ND	25	25.8	103%	85%-115%
Methylene chloride (Dichloromethane)		ND	25	27.4	109%	85%-115%
1,1,1,2-Tetrachloroethane		ND	25	26.4	106%	85%-115%
1,1,2,2-Tetrachloroethane		ND	25	27.4	110%	85%-115%
Tetrachloroethene (PCE)		ND	25	25.9	104%	85%-115%
Toluene		ND	25	26.4	106%	85%-115%
1,1,1-Trichloroethane (1,1,1-TCA)		ND	25	27.5	110%	85%-115%
1,1,2-Trichloroethane (1,1,2-TCA)		ND	25	26.7	107%	85%-115%
Trichloroethene (TCE)		ND	25	26.7	107%	85%-115%
Trichlorofluoromethane (Freon 11)		ND	25	23.6	94%	85%-115%
m,p-Xylenes		ND	50	52.9	106%	85%-115%
o-Xylene		ND	25	26.5	106%	85%-115%
Vinyl chloride (VC)		ND	25	21.1	84%	85%-115%
SURROGATE	SPK conc	%RC		%RC		
Dibromofluoromethane	50	105%		105%		
Toluene-d8	50	102%		103%		
4-Bromofluorobenzene	50	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

Gareth Voigt
Laboratory Director

MAY 0 7 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: 4/8/97
BATCH #: 0408-2
LAB SAMPLE ID #: 1D054-03

ANALYTE		SAMPLE RESULT	SPIKE CONC	MS	%MS	SPIKE CONC (DUP)	MSD	%MSD	RPD	MS/MSD LIMIT	RPD LIMIT
Benzene		ND	125	123	98%	125	124	99%	1%	70%-130%	20
Chlorobenzene		ND	125	127	102%	125	127	102%	0%	70%-130%	20
Chloroform		ND	125	130	104%	125	129	103%	1%	70%-130%	20
1,1-Dichloroethane (1,1-DCA)		ND	125	127	101%	125	128	102%	1%	70%-130%	20
1,2-Dichloroethane (1,2-DCA)		ND	125	125	100%	125	126	101%	1%	70%-130%	20
1,1-Dichloroethene (1,1-DCE)		ND	125	120	96%	125	118	95%	2%	70%-130%	20
Tetrachloroethene (PCE)		ND	125	192	154%	125	207	165%	7%	70%-130%	20
Toluene		ND	125	125	100%	125	125	100%	0%	70%-130%	20
Trichloroethene (TCE)		2.7	125	128	100%	125	133	104%	4%	70%-130%	20
SURROGATE	SPK conc	%RC		%RC			%RC				
Dibromofluoromethane	50	103%		104%			105%				
Toluene-d8	50	103%		103%			103%				
4-Bromofluorobenzene	50	104%		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
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: 4/8/97

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 24 soils for 8260 (8010/8020 ext) & 418.1

Time Last Samples Received

Client Issues Raised:

ONSITE Action Plan:

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CHAIN OF CUSTODY RECO[illegible]D 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:	Kennedy/Jenks
Address:	2151 Michelson Dr., Ste 100
City, State ZIP	Irvine, CA 92612
Phone:	714 261-1577
Fax:	261-2134

Bill to:	
Company:	
Address:	
City, State ZIP	
Phone:	
Fax:	

Date: 4-8	
Page: 1	of
Laboratory:	
Lab Number:	

Project Name:	Douglas Aircraft
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)	418.1	8010/8020				No. Containers	Remarks
2BB-SA-NE-16-1	4-8-97	0825	Soil	JK	0955	MY	1D054-01				X	X				1	
2BB-SA-NE-16-4		0832					02				X	X				1	
2BB-SA-NE-16-10		0837					03				X	X				1	
2BB-SA-NE-15-1		0859					04				X	X				1	
2BB-SA-NE-15-4		0904					05				X	X				1	
2BB-SA-NE-15-10		0913					06				X	X				1	
2BB-SA-NE-15-15		0917					07				X	X				1	
2BB-SA-NE-15-20		0924					08				X	X				1	
2BB-SA-NE-15-25		0930					09				X	X				1	
2BB-1-27-1		1018			1100		10				X	X				1	
2BB-1-27-4		1023					11				X	X				1	
2BB-1-27-10		1043					12				X	X				1	
2BB-1-31-1		1112			1325		13				X	X				1	
2BB-1-31-4		1119					14				X	X				1	

Initials:	Printed Name:	Signature:		
JK	Jay Knight	Jay Knight	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-C6-0145075

CHAIN OF CUSTODY RECO[illegible] AND ANALYSIS REQUEST

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

ONSITE
ENVIRONMENTAL LABORATORIES, INC.
[redacted]

Date:	4-8-97
Page:	2 of
Laboratory:	
Lab Number:	

Project Manager:	Rus Purcell
Client Name:	Kennedy / Jenks
Address:	2151 Michelson Dr, Ste. 100
City, State ZIP	Irvine, CA 92612
Phone:	714-261-1577
Fax:	261-2134

Project Name:	Douglas Aircraft
Project Number:	974002.00

Bill to:	
Company:	
Address:	
City, State ZIP	
Phone:	
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)	418.1	8010/8020				No. Containers	Remarks
2BB-1-31-10	4-8-97	1128	Soil	JK	1325	MY	10054-15				X	X				1	
2BB-1-30-1	↓	1300	↓	↓	↓	↓	16				X	X				1	
2BB-1-30-4	↓	1304	↓	↓	↓	↓	17				X	X				1	
2BB-1-30-10	↓	1313	↓	↓	↓	↓	18				X	X				1	
2BB-1-33-1	↓	1345	↓	↓	1520	↓	19				X	X				1	
2BB-1-33-4	↓	1350	↓	↓	↓	↓	20				X	X				1	
2BB-1-33-10	↓	1400	↓	↓	↓	↓	21				X	X				1	
2BB-1-32-1	↓	1450	↓	↓	↓	↓	22				X	X				1	
2BB-1-32-4	↓	1458	↓	↓	↓	↓	23				X	X				1	
2BB-1-32-10	↓	1505	↓	↓	↓	↓	24				X	X				1	

Initials:	Printed Name:	Signature:		
JK	Jay Knight	Jay Knight	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-C6-0145076