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Reinhard Ruhmke
Traverse Group West
1620 Grant Avenue, Suite 2
Novato, CA 94947

Client Code: TRAG6
Survey # 89-106

L A B O R A T O R Y R E S U L T S

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Date Extracted: 06/20/89
Date Analyzed: 06/30/89

Laboratory Job No.: 892729
Date Received: 06/19/89
Date Reported: 07/06/89

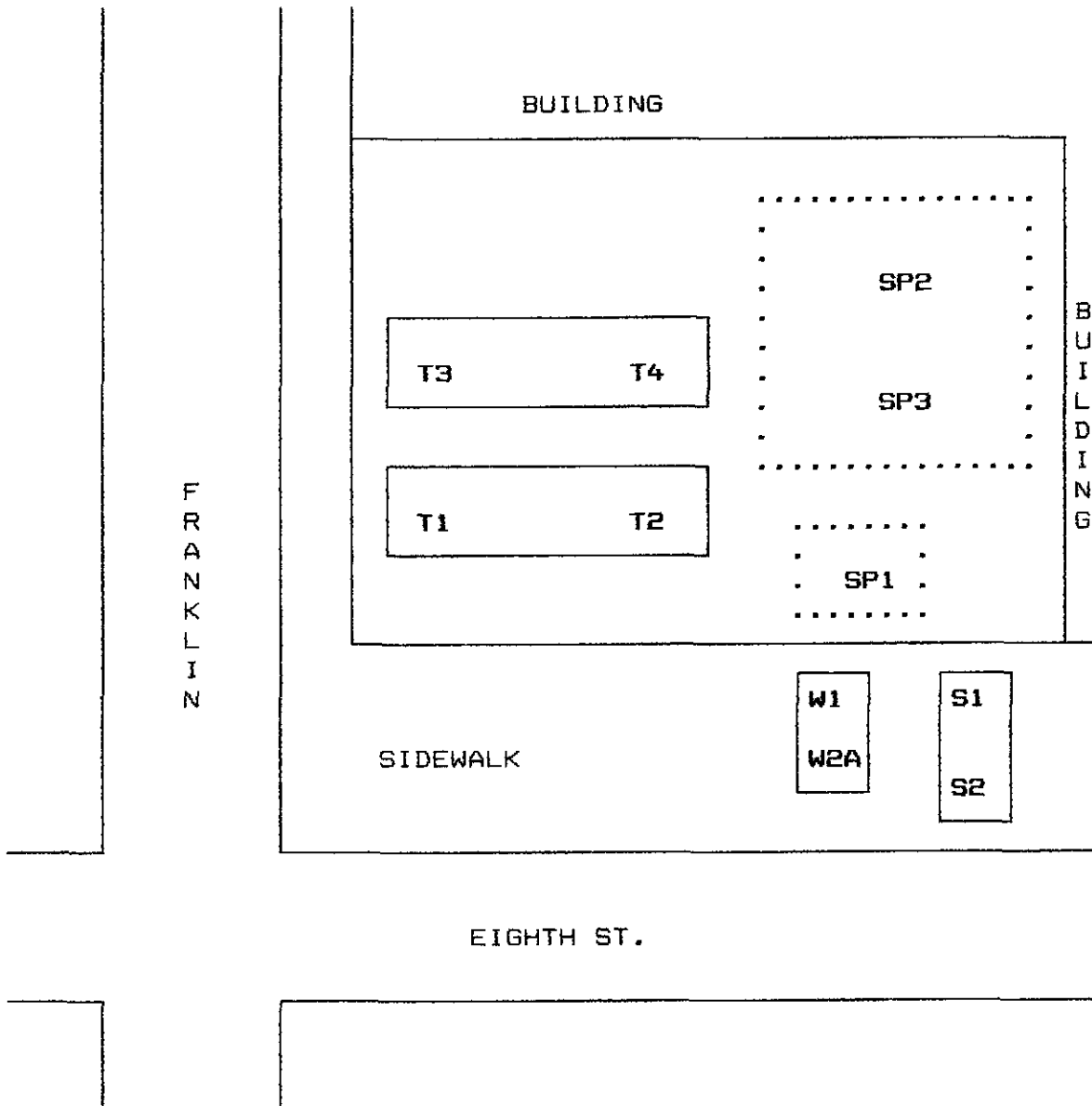
SEMIVOLATILES BY GC/MS(EPA 8270)

COMPOUNDS:	LAB#	39305	DET.	39306	DET.	39307	DET.
	SMP#	S1	LIM.	S2	LIM.	W1	LIM.
	dil.	1		1		1	
		mg/kg		mg/kg		mg/kg	
BNA							
4-CHLORO-3-METHYLPHENOL		ND	0.2	ND	0.2	ND	0.2
2-CHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DICHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DIMETHYLPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DINITROPHENOL		ND	1.0	ND	1.0	ND	1.0
2-METHYL-4,6-DINITROPHENOL		ND	1.0	ND	1.0	ND	1.0
2-NITROPHENOL		ND	0.2	ND	0.2	ND	0.2
4-NITROPHENOL		ND	1.0	ND	1.0	ND	1.0
PENTACHLOROPHENOL		ND	1.0	ND	1.0	ND	1.0
PHENOL		ND	0.2	ND	0.2	ND	0.2
2,4,6-TRICHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
ACENAPHTHENE		ND	0.2	ND	0.2	ND	0.2
ACENAPHTHYLENE		ND	0.2	ND	0.2	ND	0.2
ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
BENZO(a)ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
BENZO(b)FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
BENZO(k)FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
BENZO(a)PYRENE		ND	0.2	ND	0.2	ND	0.2
BENZO(g,h,i)PERYLENE		ND	0.2	ND	0.2	ND	0.2
BENZIDINE		ND	1.0	ND	1.0	ND	1.0
BIS(2-CHLOROETHYL)ETHER		ND	0.2	ND	0.2	ND	0.2
BIS(2-CHLOROETHOXY)METHANE		ND	0.2	ND	0.2	ND	0.2

THIS REPORT HAS BEEN REVIEWED
AND APPROVED FOR RELEASE.

ED

SITE PLAN



sample locations in boldface

not to scale



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LABORATORY RESULTS

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Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39305	DET.	39306	DET.	39307	DET.
	SMP#	\$1	LIM.	\$2	LIM.	\$1	LIM.
BNA	dil.	1		1		1	
		mg/kg		mg/kg		mg/kg	
BIS(2-ETHYLHEXYL)PHTHALATE		0.37	0.2	0.50	0.2	ND	0.2
BIS(2-CHLOROISOPROPYL)ETHER		ND	0.2	ND	0.2	ND	0.2
4-BROMOPHENYL PHENYL ETHER		ND	0.2	ND	0.2	ND	0.2
BUTYL BENZYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
2-CHLORONAPHTHALENE		ND	0.2	ND	0.2	ND	0.2
4-CHLOROPHENYL PHENYL ETHER		ND	0.2	ND	0.2	ND	0.2
CHRYSENE		ND	0.2	ND	0.2	ND	0.2
DIBENZO(a,h)ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
DI-n-BUTYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
1,2-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
1,3-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
1,4-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
3,3'-DICHLOROBENZIDINE		ND	0.5	ND	0.5	ND	0.5
DIETHYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
DIMETHYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
2,4-DINITROTOLUENE		ND	0.2	ND	0.2	ND	0.2
2,6-DINITROTOLUENE		ND	0.2	ND	0.2	ND	0.2
DIOCTYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
FLUORENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLORO BENZENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROBUTADIENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROETHANE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROCYCLOPENTADIENE		ND	0.2	ND	0.2	ND	0.2
INDENO(1,2,3-c,d)PYRENE		ND	1.0	ND	1.0	ND	1.0
ISOPHORONE		ND	0.2	ND	0.2	ND	0.2
NAPHTHALENE		ND	0.2	ND	0.2	ND	0.2
NITROBENZENE		ND	0.2	ND	0.2	2.4	0.2
N-NITROSODIMETHYLAMINE		ND	0.2	ND	0.2	ND	0.2
N-NITROSODI-n-PROPYLAMINE		ND	0.2	ND	0.2	ND	0.2
N-NITROSODIPHENYLAMINE		ND	0.2	ND	0.2	ND	0.2
PHENANTHRENE		ND	0.2	ND	0.2	ND	0.2
PYRENE		ND	0.2	ND	0.2	ND	0.2
1,2,4-TRICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
ANILINE		ND	0.2	ND	0.2	ND	0.2
BENZOIC ACID		ND	1.0	ND	1.0	ND	1.0
BENZYL ALCOHOL		ND	0.2	ND	0.2	ND	0.2
4-CHLOROANILINE		ND	0.2	ND	0.2	ND	0.2



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Laboratory Job No.: 892729

DIBENZOFURAN	ND	0.2	ND	0.2	ND	0.2
2-METHYL-NAPHTHALENE	ND	0.2	ND	0.2	1.9	0.2
2-METHYL-PHENOL	ND	1.0	ND	1.0	ND	1.0
4-METHYL-PHENOL	ND	1.0	ND	1.0	ND	1.0
2-NITROANILINE	ND	0.2	ND	0.2	ND	0.2
3-NITROANILINE	ND	0.2	ND	0.2	ND	0.2
4-NITROANILINE	ND	1.0	ND	1.0	ND	1.0
2,4,5-TRICHLOROPHENOL	ND	0.2	ND	0.2	ND	0.2

SURROGATE RECOVERIES (PERCENT)

PHENOL-D5	42	31	37
2-FLUOROPHENOL	32	22	25
NITROBENZENE-D5	58	60	53
2-FLUOROBIPHENYL	63	71	66
2,4,6-TRIBROMOPHENOL	33	20	42
TERPHENYL-D14	87	84	88



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L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39308	DET.	39309	DET.	39310	DET.
	SMP#	W2A	LIM.	SP1	LIM.	SP2	LIM.
	dil.	1		4		1	
BNA		mg/kg		mg/kg		mg/kg	
4-CHLORO-3-METHYLPHENOL		ND	0.2	ND	0.8	ND	0.2
2-CHLOROPHENOL		ND	0.2	ND	0.8	ND	0.2
2,4-DICHLOROPHENOL		ND	0.2	ND	0.8	ND	0.2
2,4-DIMETHYLPHENOL		ND	0.2	ND	0.8	ND	0.2
2,4-DINITROPHENOL		ND	1.0	ND	4.0	ND	1.0
2-METHYL-4,6-DINITROPHENOL		ND	1.0	ND	4.0	ND	1.0
2-NITROPHENOL		ND	0.2	ND	0.8	ND	0.2
4-NITROPHENOL		ND	1.0	ND	4.0	ND	1.0
PENTACHLOROPHENOL		ND	1.0	ND	4.0	ND	1.0
PHENOL		ND	0.2	ND	0.8	ND	0.2
2,4,6-TRICHLOROPHENOL		ND	0.2	ND	0.8	ND	0.2
ACENAPHTHENE		ND	0.2	ND	0.8	ND	0.2
ACENAPHTHYLENE		ND	0.2	ND	0.8	ND	0.2
ANTHRACENE		ND	0.2	ND	0.8	ND	0.2
BENZO(a)ANTHRACENE		ND	0.2	ND	0.8	ND	0.2
BENZO(b)FLUORANTHENE		ND	0.2	ND	0.8	ND	0.2
BENZO(k)FLUORANTHENE		ND	0.2	ND	0.8	ND	0.2
BENZO(a)PYRENE		ND	0.2	ND	0.8	ND	0.2
BENZO(g,h,i)PERYLENE		ND	0.2	ND	0.8	ND	0.2
BENZIDINE		ND	1.0	ND	4.0	ND	1.0
BIS(2-CHLOROETHYL)ETHER		ND	0.2	ND	0.8	ND	0.2
BIS(2-CHLOROETHOXY)METHANE		ND	0.2	ND	0.8	ND	0.2
BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.2	0.90	0.8	ND	0.2
BIS(2-CHLOROISOPROPYL)ETHER		ND	0.2	ND	0.8	ND	0.2
4-BROMOPHENYL PHENYL ETHER		ND	0.2	ND	0.8	ND	0.2
BUTYL BENZYL PHTHALATE		ND	0.2	ND	0.8	ND	0.2
2-CHLORONAPHTHALENE		ND	0.2	ND	0.8	ND	0.2
4-CHLOROPHENYL PHENYL ETHER		ND	0.2	ND	0.8	ND	0.2
CHRYSENE		ND	0.2	ND	0.8	ND	0.2
DIBENZO(a,h)ANTHRACENE		ND	0.2	ND	0.8	ND	0.2
DI-n-BUTYL PHTHALATE		ND	0.2	ND	0.8	ND	0.2
1,2-DICHLOROBENZENE		ND	0.2	ND	0.8	ND	0.2
1,3-DICHLOROBENZENE		ND	0.2	ND	0.8	ND	0.2



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LABORATORY RESULTS

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Laboratory Job No.: 892729

COMPOUNDS:

COMPOUNDS:	LAB#	39308	DET.	39309	DET.	39310	DET.
	SMP#	W2A	LIM.	SP1	LIM.	SP2	LIM.
	dil.	1		4		1	
BNA		mg/kg		mg/kg		mg/kg	
1,4-DICHLOROBENZENE		ND	0.2	ND	0.8	ND	0.2
3,3'-DICHLOROBENZIDINE		ND	0.5	ND	2.0	ND	0.5
DIETHYL PHTHALATE		ND	0.2	ND	0.8	ND	0.2
DIMETHYL PHTHALATE		ND	0.2	ND	0.8	ND	0.2
2,4-DINITROTOLUENE		ND	0.2	ND	0.8	ND	0.2
2,6-DINITROTOLUENE		ND	0.2	ND	0.8	ND	0.2
DIOCTYL PHTHALATE		ND	0.2	ND	0.8	ND	0.2
FLUORANTHENE		ND	0.2	ND	0.8	ND	0.2
FLUORENE		ND	0.2	ND	0.8	ND	0.2
HEXACHLOROBENZENE		ND	0.2	ND	0.8	ND	0.2
HEXACHLOROBUTADIENE		ND	0.2	ND	0.8	ND	0.2
HEXACHLOROETHANE		ND	0.2	ND	0.8	ND	0.2
HEXACHLOROCYCLOPENTADIENE		ND	0.2	ND	0.8	ND	0.2
INDENO(1,2,3-c,d)PYRENE		ND	1.0	ND	4.0	ND	1.0
ISOPHORONE		ND	0.2	ND	0.8	ND	0.2
NAPHTHALENE		ND	0.2	ND	0.8	ND	0.2
NITROBENZENE		6.4	0.2	27	0.8	ND	0.2
N-NITROSODIMETHYLAMINE		ND	0.2	ND	0.8	ND	0.2
N-NITROSODI-n-PROPYLAMINE		ND	0.2	ND	0.8	ND	0.2
N-NITROSODIPHENYLAMINE		ND	0.2	ND	0.8	ND	0.2
PHENANTHRENE		ND	0.2	ND	0.8	ND	0.2
PYRENE		ND	0.2	ND	0.8	ND	0.2
1,2,4-TRICHLOROBENZENE		ND	0.2	ND	0.8	ND	0.2
ANILINE		ND	0.2	ND	0.8	ND	0.2
BENZOIC ACID		ND	0.2	ND	0.8	ND	0.2
BENZYL ALCOHOL		ND	1.0	ND	4.0	ND	1.0
4-CHLOROANILINE		ND	0.2	ND	0.8	ND	0.2
BENZOFURAN		ND	0.2	ND	0.8	ND	0.2
2-METHYL-NAPHTHALENE		ND	0.2	ND	0.8	ND	0.2
2-METHYL-PHENOL		4.1	0.2	13	0.8	ND	0.2
4-METHYL-PHENOL		ND	1.0	ND	4.0	ND	1.0
2-NITROANILINE		ND	1.0	ND	4.0	ND	1.0
3-NITROANILINE		ND	0.2	ND	0.8	ND	0.2
4-NITROANILINE		ND	0.2	ND	0.8	ND	0.2
2,4,5-TRICHLOROPHENOL		ND	1.0	ND	4.0	ND	1.0
		ND	0.2	ND	0.8	ND	0.2



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Laboratory Job No.: 892729

SURROGATE RECOVERIES (PERCENT)

PHENOL-D5	-	-	-	-	-
2-FLUOROPHENOL	56		49		35
NITROBENZENE-D5	36		40		25
2-FLUOROBIPHENYL	65		67		72
2,4,6-TRIBROMOPHENOL	77		79		75
TERPHENYL-D14	47		30		19
	95		89		81



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L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39311	DET.	39312	DET.	39313	DET.
	SMP#	T1	LIM.	T2	LIM.	T3	LIM.
	dil.	1		1		1	
BNA		mg/kg		mg/kg		mg/kg	
4-CHLORO-3-METHYLPHENOL		ND	0.2	ND	0.2	ND	0.2
2-CHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DICHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DIMETHYLPHENOL		ND	0.2	ND	0.2	ND	0.2
2,4-DINITROPHENOL		ND	1.0	ND	1.0	ND	1.0
2-METHYL-4,6-DINITROPHENOL		ND	1.0	ND	1.0	ND	1.0
2-NITROPHENOL		ND	0.2	ND	0.2	ND	0.2
4-NITROPHENOL		ND	1.0	ND	1.0	ND	1.0
PENTACHLOROPHENOL		ND	1.0	ND	1.0	ND	1.0
PHENOL		ND	0.2	ND	0.2	ND	0.2
2,4,6-TRICHLOROPHENOL		ND	0.2	ND	0.2	ND	0.2
ACENAPHTHENE		ND	0.2	ND	0.2	ND	0.2
ACENAPHTHYLENE		ND	0.2	ND	0.2	ND	0.2
ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
BENZO(a)ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
BENZO(b)FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
BENZO(k)FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
BENZO(a)PYRENE		ND	0.2	ND	0.2	ND	0.2
BENZO(g,h,i)PERYLENE		ND	0.2	ND	0.2	ND	0.2
BENZIDINE		ND	1.0	ND	1.0	ND	1.0
BIS(2-CHLOROETHYL)ETHER		ND	0.2	ND	0.2	ND	0.2
BIS(2-CHLOROETHOXY)METHANE		ND	0.2	ND	0.2	ND	0.2
BIS(2-ETHYLHEXYL)PHTHALATE		0.20	0.2	0.24	0.2	0.42	0.2
BIS(2-CHLOROISOPROPYL)ETHER		ND	0.2	ND	0.2	ND	0.2
4-BROMOPHENYL PHENYL ETHER		ND	0.2	ND	0.2	ND	0.2
BUTYL BENZYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
2-CHLORONAPHTHALENE		ND	0.2	ND	0.2	ND	0.2
4-CHLOROPHENYL PHENYL ETHER		ND	0.2	ND	0.2	ND	0.2
CHRYSENE		ND	0.2	ND	0.2	ND	0.2
DIBENZO(a,h)ANTHRACENE		ND	0.2	ND	0.2	ND	0.2
DI-n-BUTYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
1,2-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
1,3-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:

COMPOUNDS:	LAB#	39311	DET.	39312	DET.	39313	DET.
	SMP#	T1	LIM.	T2	LIM.	T3	LIM.
	dil.	1		1		1	
		mg/kg		mg/kg		mg/kg	
BNA							
1,4-DICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
3,3'-DICHLOROBENZIDINE		ND	0.5	ND	0.5	ND	0.5
DIETHYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
DIMETHYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
2,4-DINITROTOLUENE		ND	0.2	ND	0.2	ND	0.2
2,6-DINITROTOLUENE		ND	0.2	ND	0.2	ND	0.2
DIOCTYL PHTHALATE		ND	0.2	ND	0.2	ND	0.2
FLUORANTHENE		ND	0.2	ND	0.2	ND	0.2
FLUORENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROBUTADIENE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROETHANE		ND	0.2	ND	0.2	ND	0.2
HEXACHLOROCYCLOPENTADIENE		ND	0.2	ND	0.2	ND	0.2
INDENO(1,2,3-c,d)PYRENE		ND	1.0	ND	1.0	ND	1.0
ISOPHORONE		ND	0.2	ND	0.2	ND	0.2
NAPHTHALENE		ND	0.2	ND	0.2	ND	0.2
NITROBENZENE		ND	0.2	ND	0.2	ND	0.2
N-NITROSODIMETHYLAMINE		ND	0.2	ND	0.2	ND	0.2
N-NITROSODI-n-PROPYLAMINE		ND	0.2	ND	0.2	ND	0.2
N-NITROSODIPHENYLAMINE		ND	0.2	ND	0.2	ND	0.2
PHENANTHRENE		ND	0.2	ND	0.2	ND	0.2
PYRENE		ND	0.2	ND	0.2	ND	0.2
1,2,4-TRICHLOROBENZENE		ND	0.2	ND	0.2	ND	0.2
ANILINE		ND	0.2	ND	0.2	ND	0.2
BENZOIC ACID		ND	0.2	ND	0.2	ND	0.2
BENZYL ALCOHOL		ND	1.0	ND	1.0	ND	0.2
4-CHLOROANALINE		ND	0.2	ND	0.2	ND	1.0
DIBENZOFURAN		ND	0.2	ND	0.2	ND	0.2
2-METHYL-NAPHTHALENE		ND	0.2	ND	0.2	ND	0.2
1-METHYL-PHENOL		ND	0.2	ND	0.2	ND	0.2
2-METHYL-PHENOL		ND	1.0	ND	1.0	ND	1.0
3-METHYL-PHENOL		ND	1.0	ND	1.0	ND	1.0
4-NITROANILINE		ND	0.2	ND	0.2	ND	0.2
5-NITROANILINE		ND	0.2	ND	0.2	ND	0.2
6-NITROANILINE		ND	0.2	ND	0.2	ND	0.2
1,2,4,5-TRICHLOROPHENOL		ND	1.0	ND	1.0	ND	1.0
		ND	0.2	ND	0.2	ND	0.2



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LABORATORY RESULTS

Laboratory Job No.: 892729

SURROGATE RECOVERIES (PERCENT)

PHENOL-D5	47	47	44
2-FLUOROPHENOL	33	30	33
NITROBENZENE-D5	65	70	61
2-FLUOROBIPHENYL	70	70	62
2,4,6-TRIBROMOPHENOL	49	21	41
TERPHENYL-D14	86	84	77



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39314	DET.	39315	DET.
	SMP#	T4	LIM.	SP3	LIM.
	dil.	4		1	
		mg/kg		mg/kg	
BNA					
4-CHLORO-3-METHYLPHENOL		ND	0.8	ND	0.2
2-CHLOROPHENOL		ND	0.8	ND	0.2
2,4-DICHLOROPHENOL		ND	0.8	ND	0.2
2,4-DIMETHYLPHENOL		ND	0.8	ND	0.2
2,4-DINITROPHENOL		ND	4.0	ND	1.0
2-METHYL-4,6-DINITROPHENOL		ND	4.0	ND	1.0
2-NITROPHENOL		ND	0.8	ND	0.2
4-NITROPHENOL		ND	4.0	ND	1.0
PENTACHLOROPHENOL		ND	4.0	ND	1.0
PHENOL		ND	0.8	ND	0.2
2,4,6-TRICHLOROPHENOL		ND	0.8	ND	0.2
ACENAPHTHENE		ND	0.8	ND	0.2
ACENAPHTHYLENE		ND	0.8	ND	0.2
ANTHRACENE		ND	0.8	ND	0.2
BENZO(a)ANTHRACENE		ND	0.8	ND	0.2
BENZO(b)FLUORANTHENE		ND	0.8	ND	0.2
BENZO(k)FLUORANTHENE		ND	0.8	ND	0.2
BENZO(a)PYRENE		ND	0.8	ND	0.2
BENZO(g,h,i)PERYLENE		ND	0.8	ND	0.2
BENZIDINE		ND	4.0	ND	1.0
BIS(2-CHLOROETHYL)ETHER		ND	0.8	ND	0.2
BIS(2-CHLOROETHOXY)METHANE		ND	0.8	ND	0.2
BIS(2-ETHYLHEXYL)PHTHALATE		ND	0.8	0.52	0.2
BIS(2-CHLOROISOPROPYL)ETHER		ND	0.8	ND	0.2
4-BROMOPHENYL PHENYL ETHER		ND	0.8	ND	0.2
BUTYL BENZYL PHTHALATE		ND	0.8	ND	0.2
2-CHLORONAPHTHALENE		ND	0.8	ND	0.2
4-CHLOROPHENYL PHENYL ETHER		ND	0.8	ND	0.2
CHRYSENE		ND	0.8	ND	0.2
DIBENZO(a,h)ANTHRACENE		ND	0.8	ND	0.2
DI-n-BUTYL PHTHALATE		ND	0.8	ND	0.2
1,2-DICHLOROBENZENE		ND	0.8	ND	0.2
1,3-DICHLOROBENZENE		ND	0.8	ND	0.2



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39314	DET.	39315	DET.
	SMP#	T4	LIM.	SP3	LIM.
	dil.	4		1	
BNA		mg/kg		mg/kg	
1,4-DICHLOROBENZENE		ND	0.8	ND	0.2
3,3'-DICHLOROBENZIDINE		ND	2.0	ND	0.5
DIETHYL PHTHALATE		ND	0.8	ND	0.2
DIMETHYL PHTHALATE		ND	0.8	ND	0.2
2,4-DINITROTOLUENE		ND	0.8	ND	0.2
2,6-DINITROTOLUENE		ND	0.8	ND	0.2
DIOCTYL PHTHALATE		ND	0.8	ND	0.2
FLUORANTHENE		ND	0.8	ND	0.2
FLUORENE		ND	0.8	ND	0.2
HEXACHLOROBENZENE		ND	0.8	ND	0.2
HEXACHLOROBUTADIENE		ND	0.8	ND	0.2
HEXACHLOROETHANE		ND	0.8	ND	0.2
HEXACHLOROCYCLOPENTADIENE		ND	4.0	ND	1.0
INDENO(1,2,3-c,d)PYRENE		ND	0.8	ND	0.2
ISOPHORONE		ND	0.8	ND	0.2
NAPHTHALENE		28	0.8	1.6	0.2
NITROBENZENE		ND	0.8	ND	0.2
N-NITROSODIMETHYLAMINE		ND	0.8	ND	0.2
N-NITROSODI-n-PROPYLAMINE		ND	0.8	ND	0.2
N-NITROSODIPHENYLAMINE		ND	0.8	ND	0.2
PHENANTHRENE		ND	0.8	ND	0.2
PYRENE		ND	0.8	ND	0.2
1,2,4-TRICHLOROBENZENE		ND	0.8	ND	0.2
ANILINE		ND	0.8	ND	0.2
BENZOIC ACID		ND	4.0	ND	1.0
BENZYL ALCOHOL		ND	0.8	ND	0.2
4-CHLOROANILINE		ND	0.8	ND	0.2
DIBENZOFURAN		ND	0.8	ND	0.2
2-METHYL-NAPHTHALENE		23	0.8	2.0	0.2
2-METHYL-PHENOL		ND	4.0	ND	1.0
4-METHYL-PHENOL		ND	4.0	ND	1.0
2-NITROANILINE		ND	0.8	ND	0.2
3-NITROANILINE		ND	0.8	ND	0.2
4-NITROANILINE		ND	4.0	ND	1.0
2,4,5-TRICHLOROPHENOL		ND	0.8	ND	0.2



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L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 892729

SURROGATE RECOVERIES (PERCENT)

PHENOL-D5	56	71
2-FLUOROPHENOL	45	58
NITROBENZENE-D5	55	67
2-FLUOROBIPHENYL	73	73
2,4,6-TRIBROMOPHENOL	34	97
TERPHENYL-D14	108	72

ND = NO PEAKS DETECTED

ANALYST: CAROLYN STUDENY



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L A B O R A T O R Y R E S U L T S

Date Extracted: 06/26/89
 Date Analyzed: 06/26/89

Laboratory Job No.: 892729
 Date Received: 06/19/89
 Date Reported: 07/06/89

PURGEABLES BY GC/MS(EPA8240)

COMPOUNDS:	LAB#	39305	DET.	39306	DET.	39307	DET.
	SMP#	S1	LIM.	S2	LIM.	W1	LIM.
	dil.	1		400		2000	
PURGEABLES		UG/KG		UG/KG		UG/KG	
BENZENE		ND	2.5	ND	1000.0	ND	5000.0
BROMODICHLOROMETHANE		ND	2.5	ND	1000.0	ND	5000.0
BROMOFORM		ND	2.5	ND	1000.0	ND	5000.0
BROMOMETHANE		ND	2.5	ND	1000.0	ND	5000.0
CARBON TETRACHLORIDE		ND	2.5	ND	1000.0	ND	5000.0
CHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0
2-CHLOROETHYL VINYL ETHER		ND	5.0	ND	2000.0	ND	10000.0
CHLOROFORM		ND	2.5	ND	1000.0	ND	5000.0
CHLOROMETHANE		ND	2.5	ND	1000.0	ND	5000.0
DIBROMOCHLOROMETHANE		ND	2.5	ND	1000.0	ND	5000.0
1,2-DICHLOROBENZENE		ND	2.5	ND	1000.0	ND	5000.0
1,3-DICHLOROBENZENE		ND	2.5	ND	1000.0	ND	5000.0
1,4-DICHLOROBENZENE		ND	2.5	ND	1000.0	ND	5000.0
1,1-DICHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0
1,2-DICHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0
1,1-DICHLOROETHENE		ND	2.5	ND	1000.0	ND	5000.0
TRANS-1,2-DICHLOROETHENE		ND	2.5	ND	1000.0	ND	5000.0
1,2-DICHLOROPROPANE		ND	2.5	ND	1000.0	ND	5000.0
CIS-1,3-DICHLOROPROPENE		ND	2.5	ND	1000.0	ND	5000.0
TRANS-1,3-DICHLOROPROPENE		ND	2.5	ND	1000.0	ND	5000.0
ETHYL BENZENE		ND	2.5	ND	1000.0	ND	5000.0
METHYLENE CHLORIDE		ND	2.5	ND	1000.0	ND	5000.0
1,1,2,2-TETRACHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0
TETRACHLOROETHENE		ND	2.5	ND	1000.0	ND	5000.0
TOLUENE		ND	2.5	ND	1000.0	ND	5000.0
1,1,1-TRICHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0
1,1,2-TRICHLOROETHANE		ND	2.5	ND	1000.0	ND	5000.0



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LABORATORY RESULTS

Laboratory Job No.: 892729

TRICHLOROETHENE	ND	2.5	ND	1000.0	ND	5000.0
TRICHLOROFLUOROMETHANE	ND	2.5	ND	1000.0	ND	5000.0
VINYL CHLORIDE	ND	5.0	ND	2000.0	ND	10000.0
XYLENES	ND	2.5	ND	1000.0	14000	5000.0
ACETONE	ND	50.0	ND	20000.0	ND	100000.0
2-BUTANONE	ND	5.0	ND	2000.0	ND	10000.0
CARBON DISULFIDE	ND	5.0	ND	2000.0	ND	10000.0
2-HEXANONE	ND	5.0	ND	2000.0	ND	10000.0
4-METHYL-2-PENTANONE	ND	5.0	ND	2000.0	ND	10000.0
STYRENE	ND	5.0	ND	2000.0	ND	10000.0
VINYL ACETATE	ND	5.0	ND	2000.0	ND	10000.0

SURROGATE RECOVERIES-QC

1,2-DICHLOROETHANE-D4	116%	88%	63%
TOLUENE-D8	104%	110%	102%
4-BROMOFLUOROBENZENE	94%	86%	90%



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39308	DET.	39309	DET.	39310	DET.
	SMP#	W2A	LIM.	SP1	LIM.	SP2	LIM.
	dil.	1000		2000		1	
PURGEABLES		UG/KG		UG/KG		UG/KG	
BENZENE		ND	2500.0	ND	5000.0	ND	2.5
BROMODICHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
BROMOFORM		ND	2500.0	ND	5000.0	ND	2.5
BROMOMETHANE		ND	2500.0	ND	5000.0	ND	2.5
CARBON TETRACHLORIDE		ND	2500.0	ND	5000.0	ND	2.5
CHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
CHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
2-CHLOROETHYL VINYL ETHER		ND	5000.0	ND	10000.0	ND	5.0
CHLOROFORM		ND	2500.0	ND	5000.0	ND	2.5
CHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
DIBROMOCHLOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,3-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,4-DICHLOROBENZENE		ND	2500.0	ND	5000.0	ND	2.5
1,1-DICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,1-DICHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
TRANS-1,2-DICHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
1,2-DICHLOROPROPANE		ND	2500.0	ND	5000.0	ND	2.5
CIS-1,3-DICHLOROPROPENE		ND	2500.0	ND	5000.0	ND	2.5
TRANS-1,3-DICHLOROPROPENE		ND	2500.0	ND	5000.0	ND	2.5
ETHYL BENZENE		ND	2500.0	19000	5000.0	ND	2.5
METHYLENE CHLORIDE		ND	2500.0	ND	5000.0	ND	2.5
1,1,2,2-TETRACHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
TETRACHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
TOLUENE		2900	2500.0	17000	5000.0	ND	2.5
1,1,1-TRICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
1,1,2-TRICHLOROETHANE		ND	2500.0	ND	5000.0	ND	2.5
TRICHLOROETHENE		ND	2500.0	ND	5000.0	ND	2.5
TRICHLOROFLUOROMETHANE		ND	2500.0	ND	5000.0	ND	2.5
VINYL CHLORIDE		ND	5000.0	ND	10000.0	ND	5.0
XYLENES		12000	2500.0	110000	5000.0	ND	2.5
ACETONE		ND	50000.0	ND	100000.0	ND	50.0



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LABORATORY RESULTS

Laboratory Job No.: 892729

2-BUTANONE	ND	5000.0	ND	10000.0	ND	5.0
CARBON DISULFIDE	ND	5000.0	ND	10000.0	ND	5.0
2-HEXANONE	ND	5000.0	ND	10000.0	ND	5.0
4-METHYL-2-PENTANONE	ND	5000.0	ND	10000.0	ND	5.0
STYRENE	ND	5000.0	ND	10000.0	ND	5.0
VINYL ACETATE	ND	5000.0	ND	10000.0	ND	5.0

SURROGATE RECOVERIES-QC

1,2-DICHLOROETHANE-D4	63%	63%	90%
TOLUENE-D8	109%	105%	103%
4-BROMOFLUOROBENZENE	87%	72%	120%



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39311	DET.	39312	DET.	39313	DET.
	SMP#	T1	LIM.	T2	LIM.	T3	LIM.
	dil.	1		1		1	
PURGEABLES		UG/KG		UG/KG		UG/KG	
BENZENE		11	2.5	50	2.5	4.6	2.5
BROMODICHLOROMETHANE		ND	2.5	ND	2.5	ND	2.5
BROMOFORM		ND	2.5	ND	2.5	ND	2.5
BROMOMETHANE		ND	2.5	ND	2.5	ND	2.5
CARBON TETRACHLORIDE		ND	2.5	ND	2.5	ND	2.5
CHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
CHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
2-CHLOROETHYLVINYL ETHER		ND	5.0	ND	5.0	ND	5.0
CHLOROFORM		ND	2.5	ND	2.5	ND	2.5
CHLOROMETHANE		ND	2.5	ND	2.5	ND	2.5
DIBROMOCHLOROMETHANE		ND	2.5	ND	2.5	ND	2.5
1,2-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,3-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,4-DICHLOROBENZENE		ND	2.5	ND	2.5	ND	2.5
1,1-DICHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
1,2-DICHLOROETHANE		ND	2.5	41	2.5	ND	2.5
1,1-DICHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TRANS-1,2-DICHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
1,2-DICHLOROPROPANE		ND	2.5	ND	2.5	ND	2.5
CIS-1,3-DICHLOROPROPENE		ND	2.5	ND	2.5	ND	2.5
TRANS-1,3-DICHLOROPROPENE		ND	2.5	ND	2.5	ND	2.5
ETHYL BENZENE		ND	2.5	3.6	2.5	ND	2.5
METHYLENE CHLORIDE		ND	2.5	ND	2.5	ND	2.5
1,1,2,2-TETRACHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
TETRACHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TOLUENE		3.6	2.5	44	2.5	ND	2.5
1,1,1-TRICHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
1,1,2-TRICHLOROETHANE		ND	2.5	ND	2.5	ND	2.5
TRICHLOROETHENE		ND	2.5	ND	2.5	ND	2.5
TRICHLOROFLUOROMETHANE		ND	2.5	ND	2.5	ND	2.5
VINYL CHLORIDE		ND	5.0	ND	5.0	ND	5.0
XYLENES		6.1	2.5	23	2.5	ND	2.5
ACETONE		ND	50.0	ND	50.0	ND	50.0



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L A B O R A T O R Y R E S U L T S

Laboratory Job No.: 892729

2-BUTANONE	ND	5.0	ND	5.0	ND	5.0
CARBON DISULFIDE	ND	5.0	ND	5.0	ND	5.0
2-HEXANONE	ND	5.0	ND	5.0	ND	5.0
4-METHYL-2-PENTANONE	ND	5.0	ND	5.0	ND	5.0
STYRENE	ND	5.0	ND	5.0	ND	5.0
VINYL ACETATE	ND	5.0	ND	5.0	ND	5.0

SURROGATE RECOVERIES-QC

1,2-DICHLOROETHANE-D4	120%	97%	92%
TOLUENE-D8	108%	107%	119%
4-BROMOFLUOROBENZENE	102%	99%	116%



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LABORATORY RESULTS

Laboratory Job No.: 892729

COMPOUNDS:	LAB#	39314	DET.	39315	DET.
	SMP#	T4	LIM.	SP3	LIM.
	dil.	2000		400	
PURGEABLES		UG/KG		UG/KG	
BENZENE		7500	5000.0	ND	1000.0
BROMODICHLOROMETHANE		ND	5000.0	ND	1000.0
BROMOFORM		ND	5000.0	ND	1000.0
BROMOMETHANE		ND	5000.0	ND	1000.0
CARBON TETRACHLORIDE		ND	5000.0	ND	1000.0
CHLOROBENZENE		ND	5000.0	ND	1000.0
CHLOROETHANE		ND	5000.0	ND	1000.0
2-CHLOROETHYLVINYL ETHER		ND	10000.0	ND	2000.0
CHLOROFORM		ND	5000.0	ND	1000.0
CHLOROMETHANE		ND	5000.0	ND	1000.0
DIBROMOCHLOROMETHANE		ND	5000.0	ND	1000.0
1,2-DICHLOROBENZENE		ND	5000.0	ND	1000.0
1,3-DICHLOROBENZENE		ND	5000.0	ND	1000.0
1,4-DICHLOROBENZENE		ND	5000.0	ND	1000.0
1,1-DICHLOROETHANE		ND	5000.0	ND	1000.0
1,2-DICHLOROETHANE		ND	5000.0	ND	1000.0
1,1-DICHLOROETHENE		ND	5000.0	ND	1000.0
TRANS-1,2-DICHLOROETHENE		ND	5000.0	ND	1000.0
1,2-DICHLOROPROPANE		ND	5000.0	ND	1000.0
CIS-1,3-DICHLOROPROPENE		ND	5000.0	ND	1000.0
TRANS-1,3-DICHLOROPROPENE		ND	5000.0	ND	1000.0
ETHYL BENZENE		59000	5000.0	ND	1000.0
METHYLENE CHLORIDE		ND	5000.0	ND	1000.0
1,1,2,2-TETRACHLOROETHANE		ND	5000.0	ND	1000.0
TETRACHLOROETHENE		ND	5000.0	ND	1000.0
TOLUENE		87000	5000.0	ND	1000.0
1,1,1-TRICHLOROETHANE		ND	5000.0	ND	1000.0
1,1,2-TRICHLOROETHANE		ND	5000.0	ND	1000.0
TRICHLOROETHENE		ND	5000.0	ND	1000.0
TRICHLOROFUOROMETHANE		ND	5000.0	ND	1000.0
VINYL CHLORIDE		ND	10000.0	ND	2000.0
XYLENES		290000	5000.0	2100	1000.0
ACETONE		ND	100000.0	ND	20000.0



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LABORATORY RESULTS

Laboratory Job No.: 892729

2-BUTANONE	ND	10000.0	ND	2000.0
CARBON DISULFIDE	ND	10000.0	ND	2000.0
2-HEXANONE	ND	10000.0	ND	2000.0
4-METHYL-2-PENTANONE	ND	10000.0	ND	2000.0
STYRENE	ND	10000.0	ND	2000.0
VINYL ACETATE	ND	10000.0	ND	2000.0

SURROGATE RECOVERIES-QC

1,2-DICHLOROETHANE-D4	69%	67%
TOLUENE-D8	101%	109%
4-BROMOFLUOROBENZENE	87%	98%

ND: NOT DETECTED.

SAMPLES S2, SP2, T2, AND T3 WERE RE-ANALYZED ON 07/06/89 AND 07/07/89
DUE TO SURROGATES OUT OF ACCEPTABLE RANGES DURING THE INITIAL ANALYSES.
SURROGATE AMOUNTS FROM THE RE-ANALYSES ARE REPORTED.

ANALYST: PAUL MILLS



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LABORATORY RESULTS

Date Extracted: 06/21/89
Date Analyzed: 06/23/89

Laboratory Job No.: 892729
Date Received: 06/19/89
Date Reported: 07/06/89

ASSAY: WASTE OIL EPA 3550/SM503E
MATRIX: SOIL

LABNO	SMPLNO-ID	WASTE OIL mg/kg	DETECTION LIMIT mg/kg
39305	S1	ND	30
39306	S2	ND	30
39307	W1	4,000	30
39308	W2A	50	30
39309	SP1	900	30
39310	SP2	ND	30
39311	T1	ND	30
39312	T2	30	30
39313	T3	ND	30
39314	T4	1,350	30
39315	SP3	150	30

ANALYST: ROBERT REMLINGER



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L A B O R A T O R Y R E S U L T S

Date Extracted: 06/21/89
Date Analyzed: 06/23/89

Laboratory Job No.: 892729
Date Received: 06/19/89
Date Reported: 07/06/89

ASSAY: TPH/DIESEL (EPA 3550/8015)
MATRIX: SOIL

<u>LABNO SMPLNO-ID</u>	<u>RESULTS</u>	<u>DET.LIM</u>
39305 S1 DIESEL	ND	6.0 mg/kg
39306 S2 DIESEL	106 mg/kg	6.0 mg/kg
39307 W1 DIESEL	430 mg/kg	6.7 mg/kg
39308 W2A DIESEL	170 mg/kg	6.0 mg/kg
39309 SP1 DIESEL	240 mg/kg	6.0 mg/kg
39310 SP2 DIESEL	ND	6.7 mg/kg
39311 T1 DIESEL	ND	6.3 mg/kg
39312 T2 DIESEL	ND	6.7 mg/kg
39313 T3 DIESEL	ND	7.0 mg/kg
39314 T4 DIESEL	420 mg/kg	6.3 mg/kg



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LABORATORY RESULTS

Laboratory Job No.: 892729

LABNO SMPLNO-ID

RESULTS

DET.LIM

39315 SP3
DIESEL

40 mg/kg

6.0 mg/kg

ANALYST: ROBERT REMLINGER



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LABORATORY RESULTS

Date Extracted: 06/22/89
Date Analyzed: 06/22/89

Laboratory Job No.: 892729
Date Received: 06/19/89
Date Reported: 07/06/89

ASSAY: TPH/GASOLINE (EPA 5020/8015)
MATRIX: SOIL

<u>LABNO SMPLNO-ID</u>	<u>RESULTS</u>	<u>DET.LIM</u>
39305 S1 GASOLINE	1.8 mg/kg	1.0 mg/kg
39306 S2 GASOLINE	62 mg/kg	1.0 mg/kg
39307 W1 GASOLINE	270 mg/kg	5.7 mg/kg
39308 W2A GASOLINE	2,300 mg/kg	120.0 mg/kg
39309 SP1 GASOLINE	184 mg/kg	30.0 mg/kg
39310 SP2 GASOLINE	ND	1.0 mg/kg
39311 T1 GASOLINE	ND	1.0 mg/kg
39312 T2 GASOLINE	5.0 mg/kg	1.7 mg/kg
39313 T3 GASOLINE	ND	1.0 mg/kg
39314 T4 GASOLINE	3,100 mg/kg	60.0 mg/kg



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LABORATORY RESULTS

Laboratory Job No.: 892729

LABNO SMPLNO-ID

RESULTS

DET.LIM

39315 SP3
GASOLINE

120 mg/kg

1.0 mg/kg

ANALYST: ROBERT REMLINGER