



Overexposure results

ALCO HAZMAT

94 MAR -2 AM 11:53

TRANSMITTAL COVER SHEET

Date: February 28, 1994 Time: _____

To: Eva Chu

Firm: Alameda County Health Care Services

From: Diana Rieger

WE ARE SENDING YOU THE FOLLOWING:

- Report Letter/Memorandum
- Other

DESCRIPTION: Dublin Honda Sample Results

THESE ARE TRANSMITTED AS CHECKED BELOW:

- As Requested For Review and Comments
- For Approval For Information and Coordination
- Return Original Return Copy

REMARKS:



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 • Martinez, California 94553 • (510) 229-1512 / fax (510) 229-1526

Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 01/19/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
90925- 1	1179-01	01/11/94	01/17/94 Soil
90925- 2	1179-03	01/11/94	01/17/94 Soil
90925- 3	1179-04	01/11/94	01/17/94 Soil
90925- 4	1179-SP	01/11/94	01/17/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 1 90925- 2 90925- 3 90925- 4

Gasoline:	ND<1	ND<1	ND<1	ND<1
Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Toluene:	0.007	ND<.005	ND<.005	ND<.005
Ethyl Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Total Xylenes:	0.018	ND<.005	ND<.005	ND<.005
Oil and Grease:	97	ND<50	ND<50	110
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg



C E R T I F I C A T E O F A N A L Y S I S

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS

Page 2 of 2
QA/QC INFORMATION
SET: 90925

NA = ANALYSIS NOT REQUESTED
ND = ANALYSIS NOT DETECTED ABOVE QUANTITATION LIMIT
mg/kg = parts per million (ppm)

OIL AND GREASE ANALYSIS By Standard Methods Method 5520F:
Minimum Detection Limit in Soil: 50mg/kg

Modified EPA SW-846 Method 8015 for Extractable Hydrocarbons:
Minimum Quantitation Limit for Diesel in Soil: 10mg/kg

EPA SW-846 Method 8015/5030 Total Purgable Petroleum Hydrocarbons:
Minimum Quantitation Limit for Gasoline in Soil: 1mg/kg

EPA SW-846 Method 8020/BTXE
Minimum Quantitation Limit in Soil: 0.005mg/kg

ANALYTE	MS/MSD RECOVERY	RPD	CONTROL LIMIT
Gasoline:	94/104	10%	70-130
Benzene:	125/118	6%	70-130
Toluene:	117/117	0%	70-130
Ethyl Benzene:	111/115	4%	70-130
Total Xylenes:	116/120	3%	70-130
Oil and Grease:	106/107	1%	56-106

Michael R. Keagy
Senior Chemist



Superior Precision Analytical, Inc.

825 Arnold Drive, Suite 114 ▪ Martinez, California 94553 ▪ (510) 229-1512 / fax (510) 229-1526

Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 20-January-1994

ANALYSIS FOR SOLUBLE CAM 17 METALS
California Administration Code Title 22, Paragraph 66700 & EPA Methods
SW-846 6010 & 7000 series.

Chronology

Laboratory Number 90925

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
1179-SP	01/11/94	01/12/94	01/17/94	01/20/94		4



Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 20-January-1994

ANALYSIS FOR SOLUBLE CAM 17 METALS

Laboratory Number	Sample Identification	Matrix
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 4

Antimony	(Sb):	ND<1
Arsenic	(As):	ND<0.5
Barium	(Ba):	3.7
Beryllium	(Be):	ND<0.1
Cadmium	(Cd):	ND<0.1
Chromium	(Cr):	ND<0.5
Cobalt	(Co):	ND<0.5
Copper	(Cu):	ND<0.5
Lead	(Pb):	ND<0.5
Mercury	(Hg):	ND<0.05
Molybdenum	(Mo):	ND<0.5
Nickel	(Ni):	ND<0.5
Selenium	(Se):	ND<1
Silver	(Ag):	ND<0.5
Thallium	(Tl):	ND<2
Vanadium	(V):	ND<0.5
Zinc	(Zn):	0.7

Concentration: mg/L



ANALYSIS FOR SOLUBLE CAM 17 METALS
Quality Assurance and Control Data - Soil

Laboratory Number 90925

Compound		Method Blank (mg/L)	RL (mg/L)	Spike Recovery (%)	Limits (%)	RPD (%)
Antimony	(Sb) :	ND<1	1	98/98	75-125	0%
Arsenic	(As) :	ND<0.5	0.5	103/105	75-125	2%
Barium	(Ba) :	ND<0.5	0.5	99/98	75-125	1%
Beryllium	(Be) :	ND<0.1	0.1	99/97	75-125	2%
Cadmium	(Cd) :	ND<0.1	0.1	98/96	75-125	2%
Chromium	(Cr) :	ND<0.5	0.5	96/95	75-125	1%
Cobalt	(Co) :	ND<0.5	0.5	99/99	75-125	0%
Copper	(Cu) :	ND<0.5	0.5	96/97	75-125	1%
Lead	(Pb) :	ND<0.5	0.5	100/97	75-125	3%
Mercury	(Hg) :	ND<0.05	0.05	93/96	75-125	3%
Molybdenum	(Mo) :	ND<0.5	0.5	100/100	75-125	0%
Nickel	(Ni) :	ND<0.5	0.5	97/97	75-125	0%
Selenium	(Se) :	ND<1	1	104/103	75-125	1%
Silver	(Ag) :	ND<0.5	0.5	95/94	75-125	1%
Thallium	(Tl) :	ND<2	2	98/95	75-125	3%
Vanadium	(V) :	ND<0.5	0.5	98/98	75-125	0%
Zinc	(Zn) :	ND<0.5	0.5	97/95	75-125	2%

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 mg/L = Parts per million (ppm)
 QC File No. 90925

Michael R. Verony
 Senior Chemist
 Account Manager



RECEIVED JAN 24 1994
CHAIN OF CUSTODY REPORT

Martinez 90925
229-1512

JOB NUMBER AND NAME: 1179 Dublin Ford				ANALYSIS REQUESTED				TURNAROUND TIME: 5TT			
REPORT AND BILL TO: DECON Environmental Services, Inc. 23490 Connecticut Street Hayward, CA 94545 (510) 732-6444				Report To: Sean Delaney							
SAMPLER: Sean Delaney		DATE: 1/11/94									
SAMPLE ID/ STATION	SAMPLE DESCRIPTION	CONTAINERS NUMBER TYPE*	SAMPLING TIME/DATE	TPH G	BTEX	TOG	CHL HC	0270	STLC CAM 17	Reactivity	REMARKS
1179-01	Soil	1	1/11/94	✓	✓	✓	✓				
1179-02	" Donut Bun	1	1/11/94	✓	✓	✓	✓				
1179-03	"	1	1/11/94	✓	✓	✓	✓				
1179-04	"	1	1/11/94	✓	✓	✓	✓				
1179-05	"	1	1/11/94	✓	✓	✓	✓				
1179-06	" Composite	1	1/11/94	✓	✓	✓	✓	✓	✓		
1179-07	" 95 samp 1179-SP.	1	1/11/94	✓	✓	✓	✓	✓	✓		
				Please initial: RD							
				Samples Stored in ice: 4/0 4'c							
				Appropriate containers: 4/2							
				Samples preserved: 4/0							
				VOAs without inorganic: N/A							
				Comments: (7)							
RELINQUISHED BY: Sean J. Delaney		DATE: 1/11/94	TIME: 5:04P	RECEIVED BY: SEAN WINSON		Laboratory Use Only: Were samples:		Yes	No		
RELINQUISHED BY: S. Delaney		DATE: 1/12	TIME: 0715	RECEIVED BY: Dub Ford		preserved/on ice?		✓			
RELINQUISHED BY: Dub Ford		DATE: 1/12	TIME: 0730	RECEIVED BY LAB BY: K. J. K.		in good condition?		✓			
						labeled?		✓			

* G = Grab C = Composite W = Wipe

Superior



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Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 19-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Chronology

Laboratory Number 90925

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
1179-01	01/11/94	01/12/94	/ /	01/14/94		1
1179-03	01/11/94	01/12/94	/ /	01/14/94		2
1179-04	01/11/94	01/12/94	/ /	01/14/94		3
1179-SP	01/11/94	01/12/94	/ /	01/18/94		4



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Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 19-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
90925- 1	1179-01	Soil
90925- 2	1179-03	Soil
90925- 3	1179-04	Soil
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 1 90925- 2 90925- 3 90925- 4

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Dichloromethane:	52	11	40	15
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Tetrachloroethene:	ND<5	ND<5	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg



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HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010. Quality Assurance and Control Data - Soil

Laboratory Number 90925

Compound	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	Limits (%)	RPD (%)
Chloromethane/Vinyl Ch:	ND<10	10			
Bromomethane:	ND<5	5			
Chloroethane:	ND<5	5			
Trichlorofluoromethane:	ND<5	5			
1,1-Dichloroethene:	ND<5	5	86/86	78-158	0%
Dichloromethane:	ND<5	5			
t-1,2-Dichloroethene:	ND<5	5			
1,1-Dichloroethane:	ND<5	5			
c-1,2-Dichloroethene:	ND<5	5			
Chloroform:	ND<5	5			
1,1,1-Trichloroethane:	ND<5	5			
Carbon tetrachloride:	ND<5	5			
1,2-Dichloroethane:	ND<5	5			
Trichloroethene:	ND<5	5	116/112	83-128	4%
c-1,3-Dichloropropene:	ND<5	5			
1,2-Dichloropropane:	ND<5	5			
t-1,3-Dichloropropene:	ND<5	5			
Bromodichloromethane:	ND<5	5			
1,1,2-Trichloroethane:	ND<5	5			
Tetrachloroethene:	ND<5	5			
Dibromochloromethane:	ND<5	5			
Chlorobenzene:	ND<5	5	110/103	90-124	7%
Bromoform:	ND<5	5			
1,1,2,2-Tetrachloroeth:	ND<5	5			
1,3-Dichlorobenzene:	ND<5	5			
1,2-Dichlorobenzene:	ND<5	5			
1,4-Dichlorobenzene:	ND<5	5			

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/Kg = Parts per billion (ppb)
 QC File No. 90925

Michael R. Kern
 Senior Chemist
 Account Manager


Superior Precision Analytical, Inc.

1555 Burke, Unit I ▪ San Francisco, California 94124 ▪ (415) 647-2081 / fax (415) 821-7123

 Decon Environmental Services
 Attn: SEAN DELANEY

 Project 1179 DUBLIN ~~FORD~~ ^{Honda}
 Reported 18-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Chronology

Laboratory Number 90925

Identification	Sampled	Received	Extracted	Analyzed	Run #	Lab #
1179-SP	01/11/94	01/12/94	01/17/94	01/18/94		4



Superior Precision Analytical, Inc.

1555 Burke, Unit I • San Francisco, California 94124 • (415) 647-2081 / fax (415) 821-7123

Decon Environmental Services
Attn: SEAN DELANEY

Project 1179 DUBLIN ^{Honda} FORD
Reported 18-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 4

- bis(2-chloroethyl)ethane:ND<330
- aniline: ND<330
- phenol: ND<330
- 2-chlorophenol: ND<330
- 1,3-dichlorobenzene: ND<330
- 1,4-dichlorobenzene: ND<330
- 1,2-dichlorobenzene: ND<330
- benzyl alcohol: ND<330
- bis-(2-chloroisopropyl):ND<330
- 2-methylphenol: ND<330
- hexachloroethane: ND<330
- n-nitroso-di-n-propylamine:ND<330
- 4-methylphenol: ND<330
- nitrobenzene: ND<330
- isophorone: ND<330
- 2-nitrophenol: ND<330
- 2,4-dimethylphenol: ND<330
- bis(2-chloroethoxy)methane:ND<330
- 2,4-dichlorophenol: ND<330
- 1,2,4-trichlorobenzene:ND<330
- naphthalene: ND<330
- benzoic acid: ND<330
- 4-chloroaniline: ND<330
- hexachlorobutadiene: ND<330
- 4-chloro-3-methylphenol:ND<330
- 2-methyl-naphthalene: ND<330
- hexachlorocyclopentadiene:ND<330
- 2,4,6-trichlorophenol: ND<330
- 2,4,5-trichlorophenol: ND<800

Concentration: ug/kg



Superior Precision Analytical, Inc.

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Project 1179 DUBLIN ^{Honda} ~~FORD~~
Reported 18-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 4

2-chloronaphthalene:	ND<330
2-nitroaniline:	ND<800
acenaphthylene:	ND<330
dimethylphthlate:	ND<330
2,6-dinitrotoluene:	ND<330
acenaphthene:	ND<330
3-nitroaniline:	ND<800
2,4-dinitrophenol:	ND<800
dibenzofuran:	ND<330
2,4-dinitrotoluene:	ND<330
4-nitrophenol:	ND<800
fluorene:	ND<330
4-chlorophenyl-phenyle:	ND<330
diethylphthlate:	ND<330
4-nitroaniline:	ND<800
4,6-dinitro-2-methylph:	ND<800
n-nitrosodiphenylamine:	ND<330
4-bromo-phenyl-phenyle:	ND<330
hexachlorobenzene:	ND<330
pentachlorophenol:	ND<800
phenanthrene:	ND<330
anthracene:	ND<330
di-n-butylphthlate:	1000
fluoranthene:	ND<330
benzidine:	ND<1700
pyrene:	ND<330
butylbenzylphthlate:	ND<330
3,3'-dichlorobenzidine:	ND<660
benzo[a]anthracene:	ND<330

Concentration: ug/kg



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Project 1179 DUBLIN ^{Honda}~~FORD~~
Reported 18-January-1994

EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS

Laboratory Number	Sample Identification	Matrix
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 4

chrysene: ND<330
bis(2-ethylhexyl)phtha:970
di-n-octylphthalate: ND<330
benzo(b,k)fluoranthene:ND<330
benzo[a]pyrene: ND<330
indeno[1,2,3-cd]pyrene:ND<330
dibenzo[a,h]anthracene:ND<330
benzo[g,h,i]perylene: ND<330

Concentration: ug/kg

-- Surrogate % Recoveries --
2-fluorophenol: 87
phenol-d6: 89
nitrobenzene-d5: 98
2-fluorobiphenyl: 99
2,4,6-tribromophenol: 90
terphenyl-d14: 107



EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS
Quality Assurance and Control Data - Soil

Laboratory Number 90925

Compound	Method Blank (ug/kg)	RL (ug/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
bis(2-chloroethyl)ethe:	ND<330	330			
aniline:	ND<330	330			
phenol:	ND<330	330	74/75	55-105	1%
2-chlorophenol:	ND<330	330	80/80	60-111	0%
1,3-dichlorobenzene:	ND<330	330			
1,4-dichlorobenzene:	ND<330	330	78/79	56-116	1%
1,2-dichlorobenzene:	ND<330	330			
benzyl alcohol:	ND<330	330			
bis-(2-chloroisopropyl):	ND<330	330			
2-methylphenol:	ND<330	330			
hexachloroethane:	ND<330	330			
n-nitroso-di-n-propyla:	ND<330	330	80/82	59-130	2%
4-methylphenol:	ND<330	330			
nitrobenzene:	ND<330	330			
isophorone:	ND<330	330			
2-nitrophenol:	ND<330	330			
2,4-dimethylphenol:	ND<330	330			
bis(2-chloroethoxy)met:	ND<330	330			
2,4-dichlorophenol:	ND<330	330			
1,2,4-trichlorobenzene:	ND<330	330	75/76	45-119	1%
naphthalene:	ND<330	330			
benzoic acid:	ND<330	330			
4-chloroaniline:	ND<330	330			
hexachlorobutadiene:	ND<330	330			
4-chloro-3-methylpheno:	ND<330	330	83/86	50-120	4%
2-methyl-naphthalene:	ND<330	330			
hexaclorocyclopentadie:	ND<330	330			
2,4,6-trichlorophenol:	ND<330	330			
2,4,5-trichlorophenol:	ND<800	800			



EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS
Quality Assurance and Control Data - Soil

Laboratory Number 90925

Compound	Method Blank (ug/kg)	RL (ug/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
2-chloronaphthalene:	ND<330	330			
2-nitroaniline:	ND<800	800			
acenaphthylene:	ND<330	330			
dimethylphthlate:	ND<330	330			
2,6-dinitrotoluene:	ND<330	330			
acenaphthene:	ND<330	330	80/82	55-112	2%
3-nitroaniline:	ND<800	800			
2,4-dinitrophenol:	ND<800	800			
dibenzofuran:	ND<330	330			
2,4-dinitrotoluene:	ND<330	330	71/76	40-101	7%
4-nitrophenol:	ND<800	800	76/86	1-157	12%
fluorene:	ND<330	330			
4-chlorophenyl-phenyle:	ND<330	330			
diethylphthlate:	ND<330	330			
4-nitroaniline:	ND<800	800			
4,6-dinitro-2-methylph:	ND<800	800			
n-nitrosodiphenylamine:	ND<330	330			
4-bromo-phenyl-phenyle:	ND<330	330			
hexachlorobenzene:	ND<330	330			
pentachlorophenol:	ND<800	800	43/44	1-144	2%
phenanthrene:	ND<330	330			
anthracene:	ND<330	330			
di-n-butylphthlate:	ND<330	330			
fluoranthene:	ND<330	330			
benzidine:	ND<1700	1700			
pyrene:	ND<330	330	91/92	55-136	1%
butylbenzylphthlate:	ND<330	330			
3,3'-dichlorobenzidine:	ND<660	660			
benzo[a]anthracene:	ND<330	330			



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EPA SW-846 METHOD 8270 SEMIVOLATILE ORGANICS BY GC/MS Quality Assurance and Control Data - Soil

Laboratory Number 90925

Compound	Method Blank (ug/kg)	RL (ug/kg)	Spike Recovery (%)	Limits (%)	RPD (%)
chrysene:	ND<330	330			
bis(2-ethylhexyl)phtha:	ND<330	330			
di-n-octylphthalate:	ND<330	330			
benzo(b,k)fluoranthene:	ND<330	330			
benzo[a]pyrene:	ND<330	330			
indeno[1,2,3-cd]pyrene:	ND<330	330			
dibenzo[a,h]anthracene:	ND<330	330			
benzo[g,h,i]perylene:	ND<330	330			
2-fluorophenol:	71			25-121	
phenol-d6:	71			24-113	
nitrobenzene-d5:	67			23-120	
2-fluorobiphenyl:	74			30-115	
2,4,6-tribromophenol:	70			19-122	
terphenyl-d14:	83			18-137	

Definitions:

ND = Not Detected
 RPD = Relative Percent Difference
 RL = Reporting Limit
 ug/kg = Parts per billion (ppb)
 QC File No. 90925



Senior Chemist
 Account Manager



Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 01/19/94

TOTAL PETROLEUM HYDROCARBONS

Lab #	Sample Identification	Sampled	Analyzed Matrix
90925- 1	1179-01	01/11/94	01/17/94 Soil
90925- 2	1179-03	01/11/94	01/17/94 Soil
90925- 3	1179-04	01/11/94	01/17/94 Soil
90925- 4	1179-SP	01/11/94	01/17/94 Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 1 90925- 2 90925- 3 90925- 4

Gasoline:	ND<1	ND<1	ND<1	ND<1
Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Toluene:	0.007	ND<.005	ND<.005	ND<.005
Ethyl Benzene:	ND<.005	ND<.005	ND<.005	ND<.005
Total Xylenes:	0.018	ND<.005	ND<.005	ND<.005
Oil and Grease:	97	ND<50	ND<50	110
Concentration:	mg/Kg	mg/Kg	mg/Kg	mg/Kg

Decon Environmental Services
Attn: SEAN DELANEY

Project 1179
Reported 19-January-1994

HALOGENATED VOLATILE ORGANICS by EPA SW-846 Methods 5030/8010.

Laboratory Number	Sample Identification	Matrix
90925- 1	1179-01	Soil
90925- 2	1179-03	Soil
90925- 3	1179-04	Soil
90925- 4	1179-SP	Soil

RESULTS OF ANALYSIS

Laboratory Number: 90925- 1 90925- 2 90925- 3 90925- 4

Chloromethane/Vinyl Ch:	ND<10	ND<10	ND<10	ND<10
Bromomethane:	ND<5	ND<5	ND<5	ND<5
Chloroethane:	ND<5	ND<5	ND<5	ND<5
Trichlorofluoromethane:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Dichloromethane:	52	11	40	15
t-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
1,1-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
c-1,2-Dichloroethene:	ND<5	ND<5	ND<5	ND<5
Chloroform:	ND<5	ND<5	ND<5	ND<5
1,1,1-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Carbon tetrachloride:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloroethane:	ND<5	ND<5	ND<5	ND<5
Trichloroethene:	ND<5	ND<5	ND<5	ND<5
c-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichloropropane:	ND<5	ND<5	ND<5	ND<5
t-1,3-Dichloropropene:	ND<5	ND<5	ND<5	ND<5
Bromodichloromethane:	ND<5	ND<5	ND<5	ND<5
1,1,2-Trichloroethane:	ND<5	ND<5	ND<5	ND<5
Tetrachloroethene:	ND<5	ND<5	ND<5	ND<5
Dibromochloromethane:	ND<5	ND<5	ND<5	ND<5
Chlorobenzene:	ND<5	ND<5	ND<5	ND<5
Bromoform:	ND<5	ND<5	ND<5	ND<5
1,1,2,2-Tetrachloroeth:	ND<5	ND<5	ND<5	ND<5
1,3-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,2-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
1,4-Dichlorobenzene:	ND<5	ND<5	ND<5	ND<5
Concentration:	ug/Kg	ug/Kg	ug/Kg	ug/Kg

GRAPHIC GEOTECHNICAL BORING LOG

Nearby site

CLIENT: Montgomery Ward Auto Service Center PROJECT NO.: 1233 DRILL HOLE: GP-1
 SITE LOCATION: 7575 Dublin Boulevard, Dublin, California
 DRILLING CO: TEG TYPE OF RIG: Strataprobe SP-1
 DRILLING METHOD/EQUIPMENT: Direct Push HOLE DIAMETER: 2"
 DRIVE WEIGHT/HEIGHT OF DROP: 95# percuss. REFERENCE OR DATUM: Ground Level
 START DATE: 6/22/95 COMPLETION DATE: 6/22/95

DEPTH IN FEET	GRAPHIC BORING LOG	SAMPLE SIZE & LOCATION	BLOW COUNTS PER 0.5 FT	TIME IN HOURS	SOIL VAPOR READING, PPM	UNIFIED SOIL CLASSIFICATION SYSTEM U.S.C.S.	DESCRIPTION
0						CL	0.4 0-3" ASPHALT
5							
10		N/A		08:20	1/2	CL	10.0 SILTY CLAY. Brown with slight red brown mottling. Plastic. Root holes present. Appears dry.
15		N/A		08:32	10/66	CL	13.0 SILTY CLAY. Brown mottled with grey. Soil more brittle than at 9-10'. Appears dry. HC odor.
20		N/A		08:45	88/54		16.0 SLIGHTLY SANDY SILTY CLAY. Brown. Soft. Pliable. Moist. HC odor. Free water encountered. Boring GP-1 backfilled with bentonite and hydrated with tap water. Boring capped with asphalt to match existing pavement.
25							
30							
35							
40							
45							

NOTES:
 GW measured well B-10 @ 10.3' below ground surface (i.e., from top of CGS). Vapor measurements: TLV/PID measured using a Bacharach TLV sniffer; PID measurement obtained using a Photovac photoionization detector.

NOTE: This Boring Log Represents Conditions Only at Time and Location Indicated. Subsurface Conditions May Differ at Other Locations and Times.



ENVIRONMENTAL AUDIT, INC.

Nearby site

Drilling Log



**GROUNDWATER
TECHNOLOGY**

Monitoring Well MW-1

Project Chevron-Dublin Owner Chevron USA Products Company
 Location 7240 Dublin Boulevard, Dublin, CA Proj. No. 02070 0027
 Surface Elev. 333.8 ft. Total Hole Depth 26.5 ft. Diameter 8 in.
 Top of Casing 333.56 ft. Water Level Initial 18 ft. Static 12.81 ft.
 Screen: Dia 2 in. Length 20 ft. Type/Size 0.020 in.
 Casing: Dia 2 in. Length 5 ft. Type Sch 40 PVC
 Fill Material #3 Sand Rig/Core CME-55/Spill Spoon
 Drill Co. SES, Inc. Method Hollow Stem Auger/PID
 Driller Morris Peterson Log By Bruce Beale Date 09/13/94 Permit # _____
 Checked By Ed Simonis License No. RG#4422

See Site Map
For Boring Location

COMMENTS:

Depth (ft.)	Well Completion	PID (ppm)	Sample ID	Blow Count/ x Recovery	Graphic Log	USCS Class.	Description (Color, Texture, Structure) Trace < 10%, Little 10% to 20%, Some 20% to 35%, And 35% to 50%
-2							
0							Grass over dark brown silty CLAY (moist, no hydrocarbon odor)
2						CL	
4							Grayish brown silty CLAY (40, 60) with roots from nearby redwood tree (moist, no hydrocarbon odor)
6		1.0	MW-1 -5'	5 8 10		CL	
8							(grades dark gray with white chalky patches, very stiff)
10		1.0	MW-1 -10'	5 9 10		CL	
12							Static 09/23/94
14							(grades very plastic, hydrocarbon odor)
16		80	MW-1 -15'			CL	
18							Encountered Water, 09/13/94, 10:30am.
20		3.0	MW-1 -20'	3 5 8		CL	
22							Mottled gray, greenish gray, and brown silty CLAY (moist to wet, no hydrocarbon odor)
24						CL	

Sample Number	Cadmium (ppm)	Chromium (ppm)	Lead (ppm)	Nickel (ppm)	Zinc (ppm)
DH-1	0.412	3.19	3.38	2.70	7.03
DH-2	0.483	3.59	3.79	3.04	7.26
SP-1,2,3*	0.549	3.27	4.76	3.19	14.5
DETECTION LIMIT	0.005	0.05	0.05	0.04	0.005
STLC	1.0	5.0	5.0	20	250
TTLIC	100	500	1000	2000	5000
METHOD OF ANALYSIS	7130	7190	7420	7590	7950

ppm = parts per million

STLC = Soluble Threshold Limit Concentration
TTLIC = Total Threshold Limit Concentration

Table 4 Analytical Results (Cd, Cr, Pb, Ni, Zn)

FINDINGS AND RECOMMENDATIONS

Findings

The following is a summary of the results and findings of our underground storage tank removal program and the laboratory analytical results of the soil samples:

- The material used as back-fill during the initial tank installation was a grayish-brown, poorly sorted, gravelly sand.
- The native soils were comprised mainly of black, moderately plastic clays and silty clays.
- A slight to moderate product odor was noted in some of the excavated soils.
- Groundwater was not encountered in the tank pit.
- Visual inspection of the removed tank did not indicate any signs of rupture, puncture, or cracking.