SEMCO/HK2, INC.
1751 LESLIE STREET • SAN MATEO, CA 94402 • (415) 572-8033 • (415) 572-9734 FAX
GENERAL ENGINEERING & ENVIRONMENTAL CONTRACTORS LICENSE NO. 719103 (A, B, C57, C61-D40, HAZ, ASB)

July 1, 1996

ref: 96-0143

Juliet Shin
Alameda County
Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502
(510) 567-6700

re: UST removal at 701 San Pablo Avenue, Albany, California.

Dear Juliet Shin:

Enclosed is the analytical results from the waste oil tank removal at 701 San Pablo Avenue, Albany, California.

Please let us know if you have any questions.

Sincerely,

SEMCO/HK2, Inc.

Mark Dysert
Environmental Specialist

North State Environmental Analytical Laboratory

Chain of Custody/Request for Analysis

(415) 588-9652

Client: HK2, INC / SEMCO	Phone: 572 8033	Report to: HK2 INC, / SEMCO	Turnaround Time: 8 Hr / 24 Hr / 40 Hr / 5 Days / Other
Mailing Address: 1751 Leslie St. SAN MATEO		Billing to: HK2, INC. / SEMCO	
Site Address: 701 SAN PABLO AVE.		PO # / Billing Reference: WERNER 96-0143	
Sampler: Mark / Stan	Date: 6/20/96		

Sample ID:	Sample Description	Container # / type	Sampling Time/Date	TPH-D	TPH-G	BTEX	O+G	ICP 5 metals	CLHC	8270	PCB	Remarks
1-285-WO	6' MIDDLE EXC	(1) BRASS	6/20/96 2:15 P	X	X	X	X	X	X	X		
2-285-WO	8' MIDDLE EXC.	(1) BRASS	6/20/96 2:15 P	X	X	X	X	X	X	X		HOLD
3-285-WO	SSW-2' SOUTH S. DE WALL	(1) BRASS	6/20/96 2:30 P	X	X	X	X	X	X	X		HOLD
4-285-WO	SSW-4' SOUTH SIDEWALL	(1) BRASS	6/20/96 2:30 P	X	X	X	X	X	X	X		
5-SP-COMP	SPOILS	4 BRASS	6/20/96 2:45 P	X	X	X	X	X	X	X	X	HOLD PCT
								8270 =	INCL	PCB, PNA,		
										CREOSOTE, PCP		
								CLHC =	CHLORINATED			
										HYDROCARBONS		

			Yes	No
Relinquished by: Mark Dyer	Date: 6/20/96 Time: 4:35	Received by: 6/20/96		
Relinquished by:	Date: Time:	Received by:	Were samples Preserved ?	
Relinquished by:	Date: Time:	Received in lab by:	In good condition ?	

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME:WERNER 96-0143

DATE SAMPLED: 06/20/96
DATE EXTRACTED: 06/27/96
DATE ANALYZED: 06/27/96

VOLATILE HALOGENATED ORGANICS BY EPA GC/MS METHOD 8260

RESULT OF ANALYSIS

Laboratory Number	96-427-01	96-427-04	96-427-05
Client ID:	285-WO-6'6"	285-WO-SSW-4'SP-COMP	
Matrix	Soil	Soil	Soil
Analyte	Result	Result	Result
Bromochloromethane:	ND<250	ND<50	ND<200
Dichlorodifluoromethane:	ND<250	ND<50	ND<200
Chloromethane:	ND<250	ND<50	ND<200
Vinyl Chloride:	ND<250	ND<50	ND<200
Bromomethane:	ND<250	ND<50	ND<200
Chloroethane:	ND<250	ND<50	ND<200
Trichlorofluoromethane:	ND<75	ND<15	ND<60
1,1-Dichloroethene:	ND<25	ND<5	ND<20
Methylene Chloride:	ND<25	ND<5	ND<20
t-1,2-Dichloroethene:	ND<25	ND<5	ND<20
1,1-Dichloroethane:	ND<25	ND<5	ND<20
2,2-Dichloropropane:	ND<25	ND<5	ND<20
c-1,2-Dichloroethene:	ND<25	ND<5	ND<20
Chloroform:	ND<25	ND<5	ND<20
1,1,1-Trichloroethane:	ND<25	ND<5	ND<20
Carbon tetrachloride:	ND<50	ND<10	ND<40
1,1-Dichloropropene:	ND<25	ND<5	ND<20
1,2-dichloroethane:	ND<25	ND<5	ND<20
Trichloroethene:	ND<25	ND<5	ND<20
1,2-Dichloropropane:	ND<25	ND<5	ND<20
Dibromomethane:	ND<25	ND<5	ND<20
Bromodichloromethane:	ND<25	ND<5	ND<20
t-1,3-Dichloropropene	ND<25	ND<5	ND<20
Concentration:	ug/Kg	ug/Kg	ug/Kg

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North State Environmental
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CERTIFICATE OF ANALYSIS

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME:WERNER 96-0143

DATE SAMPLED: 06/20/96
DATE EXTRACTED: 06/27/96
DATE ANALYZED: 06/27/96

VOLATILE HALOGENATED ORGANICS BY EPA GC/MS METHOD 8260

RESULT OF ANALYSIS

Laboratory Number:	96-427-01	96-427-04	96-427-05
Client ID:	285-WO-6'6"	285-WO-SSW-4'SP-COMP	
Matrix	Soil	Soil	Soil
Analyte	Result	Result	Result
c-1-3-Dichloropropene:	ND<25	ND<5	ND<20
1,1,2-Trichloroethane:	ND<25	ND<5	ND<20
Tetrachloroethene:	ND<25	ND<5	ND<20
1,3-Dichloropropane:	ND<25	ND<5	ND<20
Dibromochloromethane:	ND<50	ND<10	ND<40
1,2-bromoethane:	ND<25	ND<5	ND<20
Chlorobenzene:	ND<25	ND<5	ND<20
1,1,1,2-Tetrachloroetha:	ND<25	ND<5	ND<20
Bromoform:	ND<25	ND<5	ND<20
Bromobenzene:	ND<25	ND<5	ND<20
1,1,2,2-Tetrachloroetha:	ND<50	ND<10	ND<40
2-chlorotoluene:	ND<25	ND<5	ND<20
4-chlorotoluene:	ND<25	ND<5	ND<20
1,3-Dichlorobenzene:	ND<25	ND<5	ND<20
1,4-Dichlorobenzene:	ND<25	ND<5	ND<20
1,2-dichlorobenzene:	ND<25	ND<5	ND<20
1,2-dibromo-3-chloroetha	ND<25	ND<5	ND<20
1,2,4-trichlorobenzene:	ND<25	ND<5	ND<20
hexachlorobutadiene:	ND<25	ND<5	ND<20
1,2,3-trichlorobenzene:	ND<25	ND<5	ND<20
Concentration:	ug/Kg	ug/Kg	ug/Kg
Surrogate % Recoveries			
1,2-Dichloroethane-d4	132	121	118
Toluene-d8:	102	107	102
Bromofluorobenzene:	107	98	97

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CERTIFICATE OF ANALYSIS

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME:WERNER 96-0143

DATE SAMPLED: 06/20/96
DATE EXTRACTED: 06/27/96
DATE ANALYZED: 06/27/96

VOLATILE HALOGENATED ORGANICS BY EPA GC/MS METHOD 8260

Quality Assurance and Control Data-Soil

Compound:	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	RPD (%)
Bromochloromethane:	ND<50	50		
Dichlorodifluoromethane:	ND<50	50		
Chloromethane:	ND<50	50		
Vinyl Chloride:	ND<50	50		
Bromomethane:	ND<50	50		
Chloroethane:	ND<50	50		
Trichlorofluoromethane:	ND<15	15		
1,1-Dichloroethene:	ND<5	5	84/79	6
Methylene Chloride:	ND<5	5		
t-1,2-Dichloroethene:	ND<5	5		
1,1-Dichloroethane:	ND<5	5		
2,2-Dichloropropane:	ND<5	5		
c-1,2-Dichloroethene:	ND<5	5		
Chloroform:	ND<5	5		
1,1,1-Trichloroethane:	ND<5	5		
Carbon tetrachloride:	ND<10	10		
1,1-dichloropropene:	ND<5	5		
1,2-dichloroethane:	ND<5	5		
Trichloroethene:	ND<5	5	92/82	11
1,2-Dichloropropane:	ND<5	5		
Dibromomethane:	ND<5	5		
Bromodichloromethane:	ND<5	5		
t-1,3-Dichloropropene	ND<5	5		
c-1-3-Dichloropropene:	ND<5	5		
1,1,2-Trichloroethane:	ND<5	5		

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CERTIFICATE OF ANALYSIS

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME:WERNER 96-0143

DATE SAMPLED: 06/20/96
DATE EXTRACTED: 06/27/96
DATE ANALYZED: 06/27/96

VOLATILE HALOGENATED ORGANICS BY EPA GC/MS METHOD 8260

Quality Assurance and Control Data-Soil

Compound:	Method Blank (ug/Kg)	RL (ug/Kg)	Spike Recovery (%)	RPD (%)
Tetrachloroethene:	ND<5	5		
1,3-dichloropropane:	ND<5	5		
Dibromochloromethane:	ND<10	10		
1,2-dibromoethane:	ND<5	5		
Chlorobenzene:	ND<5	5	92/88	5
1,1,1,2-Tetrachloroethane:	ND<5	5		
Bromoform:	ND<5	5		
bromobenzene:	ND<5	5		
1,1,2,2-Tetrachloroethane:	ND<10	10		
2-chlorotoluene:	ND<5	5		
4-chlorotoluene:	ND<5	5		
1,3-Dichlorobenzene:	ND<5	5		
1,4-Dichlorobenzene:	ND<5	5		
1,2-Dichlorobenzene:	ND<5	5		
1,2-dibromo-3-chloroetha	ND<5	5		
1,2,4-trichlorobenzene:	ND<5	5		
hexachlorobutadiene:	ND<5	5		
1,2,3-trichlorobenzene:	ND<5	5		

ELAP Certification # 1753

Reviewed and Approved

John Murphy
Laboratory Director

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North State Environmental
Chemical Waste Disposal · Trucking · Consulting

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

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME: 96-0143
WERNER

DATE SAMPLED: 06-20-96
DATE EXTRACTED: 06-20-96
DATE ANALYZED: 06-20-96

BTXE AND GASOLINE RANGE ORGANICS BY
EPA METHOD 8020/5030 AND 8015 M
DIESEL RANGE HYDROCARBONS BY EPA METHOD 8015 M
TEPH (OIL AND GREASE) BY EPA METHOD 5520 F

Sample No.	Client ID	Analyte	Result	
96-427-01	#1-285-WO-6'6"	Benzene	460	ug/kg
		Toluene	5500	ug/Kg
		Ethylbenzene	2000	ug/Kg
		Xylenes	8300	ug/Kg
		Gasoline	310	mg/Kg
		Diesel	1300	mg/Kg
		TEPH (5520 F)	620	mg/kg
96-427-04	#4-285-WO-SSW-4"	Benzene	ND	
		Toluene	ND	
		Ethylbenzene	ND	
		Xylenes	ND	
		Gasoline	ND	
		Diesel	ND	
		TEPH (5520 F)	ND	
96-427-05	#5-SP-COMP	Benzene	44	ug/kg
		Toluene	210	ug/Kg
		Ethylbenzene	320	ug/Kg
		Xylenes	550	ug/Kg
		Gasoline	24	mg/Kg
		Diesel	89	mg/Kg
		TEPH (5520 F)	270	mg/kg

Quality Control Quality Assurance Summary: Soil

Analyte	Method	Reporting limit		Blank	MS/MSD Recovery		RPD
MTBE	8020	5	ug/Kg	ND	AVG	81%	2
Benzene	8020	5	ug/Kg	ND			
Toluene	8020	5	ug/Kg	ND			
Ethylbenzene	8020	5	ug/Kg	ND			
Xylenes	8020	10	ug/Kg	ND			
Gasoline	8015/5030	0.5	mg/Kg	ND	AVG	97%	3
Diesel	8015 M	1	mg/Kg	ND	AVG	105%	7
TEPH	5520 F	50	mg/Kg	ND	AVG	59%	5

ELAP CERTTFICATION NUMBER 1753

Reviewed and Approved by

John Murphy
Laboratory Director

North State Environmental
Chemical Waste Disposal · Trucking · Consulting

CERTIFICATE OF ANALYSIS

JOB NO: 96-427
CLIENT: SEMCO
PROJECT NAME: WERNER
96-0143

DATE SAMPLED: 06-20-96
DATE EXTRACTED: 06-21-96
DATE ANALYZED: 06-24-96

TTLC METALS BY ATOMIC ABSORPTION SPECTROMETRY
SAMPLES PREPARED BY EPA METHOD 3050

SAMPLE NO.	CLIENT ID	ANALYTE/METHOD		RESULT	
96-427-01	1-285-WO-6'6"	Nickel	7520	57	mg/Kg
		Zinc	7950	92	mg/Kg
		Chromium	7190	41	mg/Kg
		Cadmium	7130	ND	
		Lead	7420	720	mg/kg
96-427-04	4-285-WO-SSW-4'	Nickel	7520	42	mg/Kg
		Zinc	7950	26	mg/Kg
		Chromium	7190	33	mg/Kg
		Cadmium	7130	ND	
		Lead	7420	14	mg/kg
96-427-05	5-SP-COMP	Nickel	7520	54	mg/Kg
		Zinc	7950	110	mg/Kg
		Chromium	7190	33	mg/Kg
		Cadmium	7130	ND	
		Lead	7420	77	mg/kg

Quality Control Quality Assurance Summary:

Analyte	Method	Reporting limit	Blank	MS/MSD Recovery	RPD
Nickel	7520	5.0 mg/Kg	ND	95%	2
Zinc	7950	1.0 mg/Kg	ND	100%	4
Chromium	7190	5.0 mg/Kg	ND	96%	4
Cadmium	7130	2.0 mg/Kg	ND	103%	2
Lead	7420	10.0 mg/Kg	ND	102%	6

ELAP CERTIFICATION NUMBER 1753

Reviewed and Approved by

John Murphy
Laboratory Director

NORTH STATE ENVIRONMENTAL
Attn: JOHN MURPHY

Project
Reported on June 26, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Chronology

Laboratory Number 21524

Sample ID	Sampled	Received	Extract.	Analyzed	QC Batch	LAB #
1-285-WO-6.6"	06/20/96	06/24/96	06/25/96	06/26/96	CF252.24	01
4-285-WO-SSW-4'	06/20/96	06/24/96	06/25/96	06/26/96	CF252.24	02
5-SP-COMP	06/20/96	06/24/96	06/25/96	06/26/96	CF252.24	03

QC Samples

QC Batch #	QC Sample ID	Type	Ref.	Matrix	Extract.	Analyzed
CF252.24-01	Method Blank	MB		Soil	06/25/96	06/25/96
CF252.24-02	Laboratory Spike	LS		Soil	06/25/96	06/25/96
CF252.24-03	Laboratory Spike Duplicate	LSD		Soil	06/25/96	06/25/96
CF252.24-04	4-285-WO-SSW-4'	MS	21524-02	Soil	06/25/96	06/26/96
CF252.24-05	4-285-WO-SSW-4'	MSD	21524-02	Soil	06/25/96	06/26/96

NORTH STATE ENVIRONMENTAL
Attn: JOHN MURPHY

Project
Reported on June 26, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21524-01	1-285-WO-6.6"	Soil	5.0	-
21524-02	1-285-WO-SSW-4'	Soil	1.0	-
21524-03	5 SP COMP	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21524-01 Conc. ug/Kg	RL	21524-02 Conc. ug/Kg	RL	21524-03 Conc. ug/Kg	RL
bis(2-chloroethyl)ether	ND	1500	ND	300	ND	300
aniline	ND	1500	ND	300	ND	300
phenol	ND	1500	ND	300	ND	300
2-chlorophenol	ND	1500	ND	300	ND	300
1,3-dichlorobenzene	ND	1500	ND	300	ND	300
1,4-dichlorobenzene	ND	1500	ND	300	ND	300
1,2-dichlorobenzene	ND	1500	ND	300	ND	300
benzyl alcohol	ND	1500	ND	300	ND	300
bis-(2-chloroisopropyl)ether	ND	1500	ND	300	ND	300
2-methylphenol	ND	1500	ND	300	ND	300
hexachloroethane	ND	1500	ND	300	ND	300
n-nitroso-di-n-propylamine	ND	1500	ND	300	ND	300
4-methylphenol	ND	1500	ND	300	ND	300
nitrobenzene	ND	1500	ND	300	ND	300
isophorone	ND	1500	ND	300	ND	300
2-nitrophenol	ND	1500	ND	300	ND	300
2,4-dimethylphenol	ND	1500	ND	300	ND	300
bis(2-chloroethoxy)methane	ND	1500	ND	300	ND	300
2,4-dichlorophenol	ND	1500	ND	300	ND	300
1,2,4-trichlorobenzene	ND	1500	ND	300	ND	300
naphthalene	3900	1500	ND	300	430	300
benzoic acid	ND	7500	ND	1500	ND	1500
4-chloroaniline	ND	1500	ND	300	ND	300
hexachlorobutadiene	ND	1500	ND	300	ND	300
4-chloro-3-methylphenol	ND	1500	ND	300	ND	300
2-methyl naphthalene	6000	1500	ND	300	640	300
hexachlorocyclopentadiene	ND	7500	ND	1500	ND	1500
2,4,6-trichlorophenol	ND	1500	ND	300	ND	300
2,4,5-trichlorophenol	ND	1500	ND	300	ND	300
2-chloronaphthalene	ND	1500	ND	300	ND	300
2-nitroaniline	ND	1500	ND	300	ND	300

NORTH STATE ENVIRONMENTAL
Attn: JOHN MURPHY

Project:
Reported on June 26, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil Factor	Moisture
21524-01	1-28S-WO-6.6'	Soil	5.0	-
21524-02	4-28S-WO-SSW-4'	Soil	1.0	-
21524-03	5-SP-COMP	Soil	1.0	-

RESULTS OF ANALYSIS

Compound	21524-01 Conc. ug/Kg	RL	21524-02 Conc. ug/Kg	RL	21524-03 Conc. ug/Kg	RL
acenaphthylene	ND	1500	ND	300	ND	300
dimethylphthlate	ND	1500	ND	300	ND	300
2,6-dinitrotoluene	ND	1500	ND	300	ND	300
Acenaphthene	ND	1500	ND	300	ND	300
3-nitroaniline	ND	1500	ND	300	ND	300
2,4-dinitrophenol	ND	7500	ND	1500	ND	1500
dibenzofuran	ND	1500	ND	300	ND	300
2,4-dinitrotoluene	ND	1500	ND	300	ND	300
4-nitrophenol	ND	1500	ND	300	ND	300
fluorene	ND	1500	ND	300	ND	300
4-chlorophenyl-phenylether	ND	1500	ND	300	ND	300
diethylphthlate	ND	1500	ND	300	ND	300
4-nitroaniline	ND	7500	ND	1500	ND	1500
4,6 dinitro-2-methylphenol	ND	1500	ND	300	ND	300
n nitrosodiphenylamine	ND	1500	ND	300	ND	300
4-bromo-phenyl-phenylether	ND	1500	ND	300	ND	300
hexachlorobenzene	ND	1500	ND	300	ND	300
pentachlorophenol	ND	7500	ND	1500	ND	1500
phenanthrene	ND	1500	ND	300	ND	300
anthtacene	ND	1500	ND	300	ND	300
di-n-butylphthlate	ND	1500	ND	300	300	300
fluoranthene	ND	1500	ND	300	ND	300
benzidine	ND	7500	ND	1500	ND	1500
pyrene	ND	1500	ND	300	ND	300
butylbenzylphthlate	ND	1500	ND	300	ND	300
3,3'-dichlorobenzidine	ND	1500	ND	300	ND	300
Benzo(a)Anthracene	ND	1500	ND	300	ND	300
chrysene	ND	1500	ND	300	ND	300
bis(2-ethylhexyl)phthalate	ND	1500	ND	300	ND	300
di-n-octylphthalate	ND	1500	ND	300	ND	300
benzo(b,k)fluoranthene	ND	1500	ND	300	ND	300

NORTH STATE ENVIRONMENTAL
Attn: JOHN MURPHY

Project
Reported on June 26, 1996

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

LAB ID	Sample ID	Matrix	Dil.Factor	Moisture
21524-01	1-285-WO-6.6"	Soil	5.0	-
21524-02	4-285-WO-SSW-4'	Soil	1.0	-
21524-03	5-SP-COMP	Soil	1.0	-

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

Compound	21524-01 Conc. ug/Kg	RL	21524-02 Conc. ug/Kg	RL	21524-03 Conc. ug/Kg	RL
Benzo(a)Pyrene	ND	1500	ND	300	ND	300
Indeno(1,2,3)Pyrene	ND	1500	ND	300	ND	300
dibenzo(a,h)anthracene	ND	1500	ND	300	ND	300
9H-Carbazole	ND	1500	ND	300	ND	300
Benzo(g,h,i)Perylene	ND	1500	ND	300	ND	300
>> Surrogate Recoveries (%) <<						
2-fluorophenol	86		74		69	
phenol-d5	95		83		81	
nitrobenzene-d5	93		84		81	
2-fluorobiphenyl	96		80		80	
2,4,6-tribromophenol	86		79		89	
terphenyl-d14	109		107		89	

EPA SW 846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21524
Method Blank(s)

	CF252.24-01 Conc. ug/Kg	RL
bis(2-chloroethyl)ether	ND	300
aniline	ND	300
phenol	ND	300
2-chlorophenol	ND	300
1,3-dichlorobenzene	ND	300
1,4-dichlorobenzene	ND	300
1,2-dichlorobenzene	ND	300
benzyl alcohol	ND	300
bis-(2-chloroisopropyl)ether	ND	300
2-methylphenol	ND	300
hexachloroethane	ND	300
n-nitroso di n propylamine	ND	300
4-methylphenol	ND	300
nitrobenzene	ND	300
isophorone	ND	300
2-nitrophenol	ND	300
2,4-dimethylphenol	ND	300
bis(2-chloroethoxy)methane	ND	300
2,4-dichlorophenol	ND	300
1,2,4-trichlorobenzene	ND	300
naphthalene	ND	300
benzoic acid	ND	1500
4-chloroaniline	ND	300
hexachlorobutadiene	ND	300
4-chloro-3-methylphenol	ND	300
2-methyl-naphthalene	ND	300
hexaclorocyclopentadiene	ND	1500
2,4,6-trichlorophenol	ND	300
2,4,5-trichlorophenol	ND	300
2-chloronaphthalene	ND	300
2-nitroaniline	ND	300
acenaphthylene	ND	300
dimethylphthlate	ND	300
2,6-dinitrotoluene	ND	300
Acenaphthene	ND	300
3-nitroaniline	ND	300
2,4-dinitrophenol	ND	1500

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21524
Method Blank(s)

CF252.24-01

	Conc. ug/Kg	RL
dibenzofuran	ND	300
2,4-dinitrotoluene	ND	300
4-nitrophenol	ND	300
fluorene	ND	300
4-chlorophenyl-phenylether	ND	300
diethylphthlate	ND	300
4-nitroaniline	ND	1500
1,6-dinitro-2-methylphenol	ND	300
n-nitrosodiphenylamine	ND	300
4-bromo-phenyl-phenylether	ND	300
hexachlorobenzene	ND	300
pentachlorophenol	ND	1500
phenanthrene	ND	300
anthracene	ND	300
di-n-butylphthlate	ND	300
fluoranthene	ND	300
benzidine	ND	1500
pyrene	ND	300
butylbenzylphthlate	ND	300
3,3'-dichlorobenzidine	ND	300
Benzo(a)Anthracene	ND	300
chrysene	ND	300
bis(2-ethylhexyl)phthalate	ND	300
di-n-octylphthalate	ND	300
benzo(b,k)fluoranthene	ND	300
Benzo(a)Pyrene	ND	300
Indeno(1,2,3)Pyrene	ND	300
dibenzo[a,h]anthracene	ND	300
9H-Carbazole	ND	300
Benzo(g,h,i)Perylene	ND	300

>> Surrogate Recoveries (%) <<	
2-fluorophenol	70
phenol-d5	77
nitrobenzene-d5	79
2-fluorobiphenyl	78
2,4,6-tribromophenol	74

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21524
Method Blank(s)

	CF252.24-01 Conc. ug/Kg	RL
terphenyl-d14	89	

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21524

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
For Soil Matrix (ug/Kg)						
CF252.24 02 / 03 - Laboratory Control Spikes						
phenol		3300	2079/2082	63/63	26-90	0
2-chlorophenol		3300	2488/2454	75/74	25-102	1
1,4-dichlorobenzene		1650	1243/1261	75/76	28-104	1
n-nitroso-di-n-propylamine		1650	1417/1454	86/88	41-126	2
1,2,4-trichlorobenzene		1650	1306/1327	79/80	38-107	1
4-chloro-3-methylphenol		3300	2464/2460	75/75	26-103	0
Acenaphthene		1650	1295/1325	78/80	31-137	3
2,4-dinitrotoluene		1650	1069/1096	65/66	28-118	2
4-nitrophenol		3300	1165/1138	35/34	11-114	3
pentachlorophenol		3300	1920/1906	58/58	17-109	0
pyrene		1650	1449/1498	88/91	35-142	3
>> Surrogate Recoveries (%) <<						
2-fluorophenol				69/70	25-121	
phenol-d5				76/75	24-113	
nitrobenzene-d5				79/79	23-120	
2-fluorobiphenyl				79/79	30 115	
2,4,6-tribromophenol				88/87	19 122	
terphenyl-d14				87/86	18-137	
For Soil Matrix (ug/Kg)						
CF252.24 04 / 05 - Sample Spiked: 21524 - 02						
phenol	ND	19800	13387/12972	68/66	26-90	3
2-chlorophenol	ND	19800	15645/15456	79/78	25-102	1
1,4-dichlorobenzene	ND	9900	7656/7679	77/78	28-104	1
n-nitroso-di-n-propylamine	ND	9900	8751/8871	88/90	41-126	2
1,2,4-trichlorobenzene	ND	9900	8284/8062	84/81	38-107	4
4-chloro-3-methylphenol	ND	19800	15180/15111	77/76	26-103	1
Acenaphthene	ND	9900	7887/8028	80/81	31-137	1
2,4-dinitrotoluene	ND	9900	6738/6948	68/70	28-118	3
4-nitrophenol	ND	19800	8032/8377	41/42	11-114	2
pentachlorophenol	ND	19800	10727/11104	54/56	17-109	4

EPA SW-846 Method 8270 Semivolatile Organics by GC/MS

Quality Assurance and Control Data

Laboratory Number: 21524

Compound	Sample conc.	SPK Level	SPK Result	Recovery %	Limits %	RPD %
pyrene	ND	9900	9711/9022	98/91	35-142	7
>> Surrogate Recoveries (%) <<						
2-fluorophenol				72/70	25-121	
phenol-d5				78/77	24-113	
nitrobenzene-d5				84/81	23-120	
2-fluorobiphenyl				79/79	30-115	
2,4,6-tribromophenol				87/86	19-122	
terphenyl-d14				98/90	18-137	

Definitions:
ND = Not Detected
RL = Reporting Limit
NA = Not Analysed
RPD = Relative Percent Difference
ug/L = parts per billion (ppb)
mg/L = parts per million (ppm)
ug/kg = parts per billion (ppb)
mg/kg = parts per million (ppm)