

S E M C O

1741 LESLIE STREET
SAN MATEO, CA 94402

DATE: 7-27-92

TO: Alameda County
80 Swanway, Room 200
Oakland, Ca 94621

Please find enclosed the soil analysis for:

4629 Martin Luther King Jr. way
Oakland 94609

A final report containing manifests and sample locations will be forwarded to you after compilation of all receipts, documents and permits pertaining to this tank removal.

Sincerely,

Born



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

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

LABORATORY NO.: 86242
 CLIENT: SEMCO
 CLIENT JOB NO.: MILLER & MILLER

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/23/92
 DATE SAMPLED : 07/15/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
 by MODIFIED EPA SW-846 METHOD 5030 and 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
2	#2 250-8'	ND<1
3	#3-1K-S-10'	ND<1
4	#4-1K-N-8.5'	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = <15
 MS/MSD Average Recovery = 90 %: Duplicate RPD = 0

Richard Srna, Ph.D.

Charles Green Sr.
 Laboratory Director



Superior Precision Analytical, Inc.

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

LABORATORY NO.: 86242
 CLIENT: SEMCO
 CLIENT JOB NO.: MILLER & MILLER

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/23/92
 DATE SAMPLED : 07/15/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
 by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration (ug/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
2	#2 250-8'	ND<3	ND<3	ND<3	ND<3
3	#3-1K-S-10'	ND<3	ND<3	ND<3	ND<3
4	#4-1K-N-8.5'	ND<3	ND<3	ND<3	ND<3

ug/kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%
 MS/MSD Average Recovery = 103 %: Duplicate RPD = <2

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director



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

LABORATORY NO.: 86242
CLIENT: SEMCO
CLIENT JOB NO.: MILLER & MILLER

DATE RECEIVED: 07/16/92
DATE REPORTED: 07/22/92
DATE SAMPLED : 07/15/92

ANALYSIS FOR TOTAL LEAD by SW-846 Method 6010

LAB #	Sample Identification	Concentration (mg/kg) Total Lead
1	#1 BACKGROUND	450
2	#2 250-8'	30
3	#3-1K-S-10'	7
4	#4-1K-N-8.5'	10

mg/kg - parts per million (ppm)

Method Detection Limit for Lead in Soil: 5 mg/kg

QAQC Summary: MS/MSD Average Recovery : 97 %
Duplicate RPD : 0

Richard Srna, Ph.D.

Charles D. Srna
Laboratory Manager

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. 100-1120

Section I

Consultant Name SEMCO
 Office Location 1741 Leslie Rd. San Mateo, CA 94402
 Fax No. (415) 572-9734
 Project Manager C. K. Lee
 Phone (415) 572 8033
 Send Coolers to : Modesto San Mateo
 Project No. / P.O. No. Miller & Miller

TURN AROUND TIME
 (Circle One)
 Same Day
 24 Hrs
 48 Hrs
 72 Hrs
5 Day

SUPERIOR ANALYTICAL, INC
 Martinez San Francisco
 415/229-1512 415/647-2081

Sampler Demco M. Thompson
 Regulatory Agency Alameda County

Section II		Analysis Request										Section III		Sample Information	
Sample Identification	S=Soil W=Water Matrix	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	O&G	8010	8240	Metals	Others * Subject to Subcontracting	Date	Time	Containers		Sampling Remarks
													Quantity	Pres.	
1 #1 - Background	S										7/15/92	420	1		
2 #2 - 350-8'	S			X	X							541	1		
3 #3 - 1K-S-10'	S			X	X							555	1		
4 #4 - 1K-N-B.5'	S			X	X							558	1		
5															
6															
7															
8															
9															
10															
11															
12															

Please Initial: NR
 Samples Stored in ice: NR
 Appropriate containers: NR
 Samples preserved: NR
 VOA's without headspace: NA
 Comments:

Relinquished by <u>[Signature]</u>	Date/Time <u>7/15/92 7:30 pm</u>	Received by <u>[Signature]</u>	Please Initial <u>Y</u>
Organization <u>SEMCO</u>		Organization <u>EXPRESS IT. Corp</u>	Samples Stored in Ice <u>Y</u>
Relinquished by _____	Date/Time <u>7/16/92 AM 7:31</u>	Received by <u>[Signature]</u>	Appropriate Containers <u>Y</u>
Organization _____		Organization <u>EXPRESS IT</u>	Samples Preserved <u>Y</u>
Relinquished by _____	Date/Time <u>7/16/92 9:00</u>	Received by <u>[Signature]</u>	VOA's without Headspace <u>Y</u>
Organization _____		Organization <u>Superior</u>	Comments _____

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. _____

Section I

Consultant Name SEMCO
Office Location 1741 Leslie Rd. San Mateo, CA 94402
Fax No. (415) 572-9734
Project Manager C. Kiper
Phone (415) 572 8033
Send Coolers to : Modesto San Mateo
Project No. / P.O. No. Mellor v Mellor

TURN AROUND TIME
 (Circle One)
 Same Day _____
 24 Hrs _____
 48 Hrs _____
 72 Hrs _____
 5 Day 5 Day

SUPERIOR ANALYTICAL, INC.
 Martinez San Francisco
 415/229-1512 415/647-2081

Sampler Semco
Regulatory Agency Alameda County

Section II Analysis Request **Section III Sample Information**

Sample Identification	S=Soil W=Water Matrix	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	O&G	8010	8240	Metals	Others * Subject to Subcontracting	Total Pb	Date	Time	Containers		Sampling Remarks
														Quantity	Pres.	
1 #1 - Background	S											7/15/92	420	1		
2 #2 - B50-8'	S			XX	XX							559	1			
3 #3 - K-S-10'	S			XX	XX							555	1			
4 #4 - K-N-B.S'	S			XX	XX							558	1			
5																
6																
7																
8																
9																
10																
11																
12																

Relinquished by <u>[Signature]</u> Organization <u>SEMCO</u>	Date/Time <u>7/15/92 7:30pm</u>	Received by <u>[Signature]</u> Organization <u>[Signature]</u>
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____

Please Initial _____
 Samples Stored in Ice _____
 Appropriate Containers _____
 Samples Preserved _____
 VOA's without Headspace _____
 Comments _____



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 279-0166 / fax (510) 279 0916

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

LABORATORY NO.: 86256
 CLIENT: SEMCO
 CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/24/92
 DATE SAMPLED : 07/16/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
 by EPA SW-846 METHODS 5030 and 8020

LAB #	Sample Identification	Concentration (ug/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
1	#5-10K-E-11'4"	ND<8	ND<8	13	32
2	#6-10K-C-14'	ND<3	ND<3	ND<3	ND<3
3	#7-10K-W-13'	ND<15	ND<15	62	160
4	#8-2KW-W-8'6"	ND<3	ND<3	ND<3	ND<3
5	#9-2KW-E-7'6"	ND<3	ND<3	ND<3	ND<3
6	#10-2KE-W-8'	ND<3	ND<3	ND<3	ND<3
7	#11-2KE-E7'6"	ND<3	5	ND<3	ND<3
8	#12-COMP-W	ND<8	8	32	91
9	#13-COMP-W	ND<8	ND<8	14	18

ug/kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%
 MS/MSD Average Recovery = 103%: Duplicate RPD = < 2

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 229-0916

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

LABORATORY NO.: 86256
CLIENT: SEMCO
CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
DATE REPORTED: 07/24/92
DATE SAMPLED : 07/16/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration (mg/kg) Diesel Range
1	#5-10K-E-11'4"	100 *
2	#6-10K-C-14'	ND<10
3	#7-10K-W-13'	500 *
4	#8-2KW-W-8'6"	28 *
5	#9-2KW-E-7'6"	61 *
6	#10-2KE-W-8'	ND<10
7	#11-2KE-E7'6"	130 *
8	#12-COMP-W	1000 *
9	#13-COMP-W	500 *

mg/kg - parts per million (ppm)

* Diesel range concentration. The pattern observed in the chromatogram was not typical of diesel and suggested the presence of hydrocarbons heavier than diesel #2.

Method Detection Limit for Diesel in Soil: 10 mg/kg

QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = N/A
RPD Diesel = 1
MS/MSD Average Recovery = 104%: Duplicate RPD = 1

Richard Srna, Ph.D.

Charles Srna
Laboratory Director



Superior Precision Analytical, Inc.

835 Arnold Drive, Suite 106 • Martinez, California 94553 • (510) 229-0166 / fax (510) 279-0916

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

LABORATORY NO.: 86256
 CLIENT: SEMCO
 CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/24/92
 DATE SAMPLED: 07/16/92

ANALYSIS FOR TOTAL OIL AND GREASE by STANDARD METHODS 5520F

LAB #	Sample Identification	Concentration (mg/kg) Oil & Grease
1	#5-10K-E-11'4"	290
2	#6-10K-C-14'	99
3	#7-10K-W-13'	240
4	#8-2KW-W-8'6"	700
5	#9-2KW-E-7'6"	790
6	#10-2KE-W-8'	4000
7	#11-2KE-E7'6"	900
8	#12-COMP-W	1600
9	#13-COMP-W	710

mg/kg - parts per million (ppm)

Method Detection Limit for Oil and Grease in Soil: 50 mg/kg

QAQC Summary: MS/MSD Average Recovery: 74%
 Duplicate RPD : 9

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director



Superior Precision Analytical, Inc.

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

LABORATORY NO.: 86256
 CLIENT: SEMCO
 CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/24/92
 DATE SAMPLED : 07/16/92

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS
 by MODIFIED EPA SW-846 METHOD 5030 and 8015

LAB #	Sample Identification	Concentration (mg/kg) Gasoline Range
10	#14-1K-COMP	ND<1
11	#15-250-COMP	ND<1

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline in Soil: 1 mg/kg

QAQC Summary:

Daily Standard run at 2mg/L: RPD Gasoline = <15
 MS/MSD Average Recovery = 90%: Duplicate RPD = 1

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director



Superior Precision Analytical, Inc.

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

LABORATORY NO.: 86256
 CLIENT: SEMCO
 CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/24/92
 DATE SAMPLED : 07/16/92

ANALYSIS FOR BENZENE, TOLUENE, ETHYL BENZENE & XYLENES
 by EPA SW-846 Methods 5030 and 8020

LAB #	Sample Identification	Concentration (ug/kg)			
		Benzene	Toluene	Ethyl Benzene	Xylenes
10	#14-1K-COMP	ND<3	ND<3	ND<3	ND<3
11	#15-250-COMP	ND<3	ND<3	ND<3	ND<3

ug/kg - parts per billion (ppb)

Method Detection Limit in Soil: 3 ug/kg

QAQC Summary:

Daily Standard run at 20ug/L: RPD = <15%
 MS/MSD Average Recovery = 103%: Duplicate RPD = < 2

Richard Srna, Ph.D.

Charles Srna
 Laboratory Director



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

LABORATORY NO.: 86256
 CLIENT: SEMCO
 CLIENT JOB NO.: NIGHTINGALE

DATE RECEIVED: 07/16/92
 DATE REPORTED: 07/24/92
 DATE SAMPLED: 07/16/92

ANALYSIS FOR TOTAL LEAD by SW-846 Method 6010

LAB #	Sample Identification	Concentration (mg/kg) Total Lead
10	#14-1K-COMP	37
11	#15-250-COMP	52

mg/kg - parts per million (ppm)

Method Detection Limit for Lead in Soil: 5 mg/kg

QAQC Summary: MS/MSD Average Recovery : 97%
 Duplicate RPD : 0

Richard Srna, Ph.D.

Charles Drennon
 Laboratory Manager

06156

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. _____

Section I

Consultant Name SEMCO
 Office Location 1741 Leslie Rd. San Mateo, CA 94402
 Fax No. (415) 572-9734
 Project Manager C. KIPER
 Phone (415) 572 8033
 Send Coolers to : Modesto San Mateo
 Project No. / P.O. No. NIGHTINGALE

TURN AROUND TIME
 (Circle One)
 Same Day _____
 24 Hrs _____
 48 Hrs _____
 72 Hrs _____
 5 Day 5 Day

SUPERIOR ANALYTICAL, INC.
 Martinez San Francisco
 415/229-1512 415/647-2081

Sampler M. TAMBRONI
 Regulatory Agency ALAMEDA COUNTY HAZ MAT

Section II		Analysis Request										Section III		Sample Information			
Sample Identification	S=Soil W=Water Matrix	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	OAG	8010	8240	Metals	Others * Subject to Subcontracting	Date	Time	Containers		Sampling Remarks		
													Quantity	Pres.	Bioremediation	Contamination	
1#5-10K-E-11'4"	S		X		X	X					11/16/92	1:35	1		Please Initial: Samples Stored in ice Appropriate containers Samples preserved Days without headspace Comments: [Signature]	<input type="checkbox"/>	<input type="checkbox"/>
2#6-10K-C-14'	S		X		X	X					12/2						
3#7-10K-W-13'	S		X		X	X					12/2						
4#8-2KW-W-8'6"	S		X		X	X					12/2						
5#9-2KW-E-7'6"	S		X		X	X					12/2						
6#10-2KE-W-8'	S		X		X	X					12/2						
7#11-2KE-E-7'6"	S		X		X	X					12/2						
8#12-COMP-W	S		X		X	X					12/2		4				
9#13-COMP-W	S		X		X	X					12/2		4				
10#14-1K-COMP	S		X		X	X					12/2		1				
11#15-250-COMP	S		X		X	X					12/2		1				
12																	

Relinquished by [Signature]
 Organization SEMCO

Date/Time 9/16/92 2:30

Received by [Signature]
 Organization EXPRESS IT 1435

Please Initial [Signature]
 Samples Stored in ice yes
 Appropriate Containers yes

Relinquished by [Signature]
 Organization [Signature]

Date/Time 7/16/92

Received by [Signature]
 Organization Superna Lbr 1505

Samples Preserved NA
 VOA's without Headspace NA

Relinquished by [Signature]

Date/Time 7/17/92

Received by [Signature]

Comments _____

07/24/92 17:59 2 415 229 1528 SUPERIOR LABS

Section I

CHAIN OF CUSTODY AND ANALYSIS REQUEST

LAB NO. _____

Consultant Name SEMCO
 Office Location 1741 Leslie Rd. San Mateo, CA 94402
 Fax No. (415) 572-9734
 Project Manager K. P. R.
 Phone (415) 872 8033

TURN AROUND TIME
 (Circle One)
 Same Day _____
 24 Hrs _____
 48 Hrs _____
 72 Hrs _____
 5 Day 5 Day

SUPERIOR ANALYTICAL, INC.
 Martinez San Francisco
 415/229-1512 415/647-2081

Send Coolers to : Modesto San Mateo
 Project No. / P.O. No. NIGHTINGALE

Sampler M. TAMBRONI
 Regulatory Agency ALAMEDA COUNTY HAZ. MAT.

Section II		Analysis Request										Section III		Sample Information	
Sample Identification	S=Soil W=Water A=Air	TPH - G & D	TPH - Low Level D	TPH - G	BTXE	O&G	8010	8240	Metals	Others * Subject to Subcontracting	Date	Time	Containers		Sampling Remarks
													Quantity	Pres.	
1	S		X		X	X					7/16/92	1055	1		
2	S		X		X	X						1106	1		
3	S		X		X	X						1123	1		
4	S		X		X	X						1129	1		
5	S		X		X	X						1138	1		
6	S		X		X	X						1143	1		
7	S		X		X	X						1148	1		
8	S		X		X	X						1226	4		
9	S		X		X	X						1258	4		
10	S			X	X	X						1245	1		
11	S			X	X	X						1256	1		
12															

Relinquished by <u>[Signature]</u> Organization <u>SEMCO</u>	Date/Time <u>9/16/92 2:30</u>	Received by <u>[Signature]</u> Organization <u>SEMCO</u>	Please Initial _____ Samples Stored in Ice _____ Appropriate Containers _____ Samples Preserved _____ VOA's without Headpace _____ Comments _____
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	
Relinquished by _____ Organization _____	Date/Time _____	Received by _____ Organization _____	