

**ensco**  
**environmental**  
**services, inc.**

**TANK REMOVAL AND  
SOIL EXCAVATION**

**FOR**

**WASTE MANAGEMENT INC.  
18500 VON KARMAN AVENUE  
SUITE 870  
IRVINE, CALIFORNIA**

**Project No. 3439E  
March 1990**

March 12, 1990

Waste Management Inc. of North America  
18500 Von Karman Avenue, Suite 870  
Irvine, CA 92715

Attention: Mr. Clay Rumbaoa

Subject: Tank Removal, Altamont Landfill, Livermore, California  
EES Project No. 4743F

Dear Mr. Rumbaoa:

Ensco Environmental Services, Inc. (EES) is pleased to provide Waste Management of North America with this brief letter report regarding the removal of one 12,000-gallon and one 10,000-gallon underground diesel fuel storage tanks from the 10840 Altamont Pass Road facility located in Livermore, California.

Excavation and removal of the two tanks from the facility was conducted on January 3, 1990. Prior to beginning on-site activities, all applicable regulatory agencies were notified and required permits were obtained (see Appendix A). Dry ice was added to the tank at a rate of 25 pounds per 1,000-gallon capacity to properly inert the tank before beginning any removal work.

After an appropriate amount of time to allow displacement of oxygen, EES continued excavation of the tanks and associated piping. Visual inspection of product lines before removal showed areas of failure in fittings beneath each dispenser. After the tanks were removed, visual inspection for damage and evidence of leakage was performed. No visible evidence was observed. The tanks and piping were then loaded onto licensed hazardous waste hauling trucks for shipment to a certified disposal facility. The tanks were transported under the appropriate hazardous waste manifest certificates of disposal are also enclosed from H&H Ship Service (see Appendix B).

Following removal of the tanks, one soil sample was collected from the undisturbed soils at each end of the tank excavation. Samples were also taken at this time from the product line trench. Each sample was collected in a brass sample tube, sealed with foil, capped with plastic lid, and placed in a chilled ice chest for transportation to a state-certified laboratory. Samples were accompanied by chain-of-custody documentation (see Appendix C).

The analytical report from B.C. Analytical dated January 12, 1990, indicate diesel concentrations above 100 ppm (parts per million) in the northeast corner of the tank excavation and product line trench. One water sample taken from the tank excavation showed low levels of fuel hydrocarbons in the water (see Appendix C).

Additional excavation of the product line trench began on January 18, 1990. Contaminated soils were placed on and covered by 6-mil. visqueen in an area pre-designated by client. Samples were again sent to a state-certified laboratory accompanied by chain-of-custody documentation (see Appendix D).

Analytical results reported January 23, 1990, indicate diesel concentration above 100 ppm on the east side of the product line excavation (see Appendix D).

Final excavation began on January 24, 1990. Soils were again placed on and covered by plastic. At this time, soil was also excavated from the northeast corner of the tank excavation. Analytical results reported January 26, 1990 from B.C. Analytical show non-detectable levels of diesel in both samples. These results along with chain-of-custody documentation are enclosed in this report (see Appendix E).

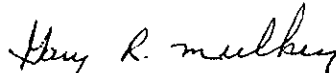
Upon receipt of final analysis, the tank excavation was backfilled with clean imported soils supplied by Waste Management, Inc. and paved over. Sampling of the stockpiled soils was conducted on February 5, 1990. These results along with chain-of-custody documentation are enclosed (see Appendix F). Waste Management, Inc. is making all necessary arrangements for hauling and disposal of these soils to their Kettleman Hills facility.

Should you have any questions regarding this report, please contact me at (415) 659-0404. EES is pleased to have been of service to you on this project.

Sincerely,  
Ensco Environmental Services, Inc.



Gary L. DellaVecchia  
Field Supervisor, Construction Services



Gary R. Mulkey R.E.A. 311  
Manager, Geoscience Department

GLD/GRM/sw  
Attachments

white -env.health  
 yellow -facility  
 pink -files

# ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

80 Swan Way, #200  
 Oakland, CA 94621  
 (415) 271-4320

## Hazardous Materials Inspection Form

II, III

Site ID # \_\_\_\_\_ Site Name Altamont Landfill Waste Mgmt Today's Date 1/3/89

Site Address 10840 Altamont Ave

City Livermore Zip 94550 Phone \_\_\_\_\_

MAX AMT stored > 500 lbs, 55 gal., 200 cft.?

**Inspection Categories:**

- I. Haz. Mat/Waste GENERATOR/TRANSPORTER
- II. Business Plans, Acute Hazardous Materials
- III. Underground Tanks

• Calif. Administration Code (CAC) or the Health & Safety Code (HS&C)

**Comments:**

2 fiberglass tanks removed  
 samples collected by environmental service  
 6 soil samples  
 2 under samples  
 monthly diesel oil samples - 10 - 100 ml  
 water treatment tank  
 ENSO contract  
 Gary DellaVecchia

**II.A BUSINESS PLANS (Title 19)**

- 1. Immediate Reporting 2703
- 2. Bus. Plan Sids. 25503(b)
- 3. RR Cars > 30 days 25503.7
- 4. Inventory Information 25504(a)
- 5. Inventory Complete 2730
- 6. Emergency Response 25504(b)
- 7. Training 25504(c)
- 8. Deficiency 25505(a)
- 9. Modification 25505(b)

**II.B ACUTELY HAZ. MATLS**

- 10. Registration Form Filed 25533(a)
- 11. Form Complete 25533(b)
- 12. RMPP Contents 25534(c)
- 13. Implement Sch. Req'd? (Y/N) \_\_\_\_\_
- 14. OffSite Conseq. Assess. 25524(c)
- 15. Probable Risk Assessment 25534(d)
- 16. Persons Responsible 25534(g)
- 17. Certification 25534(f)
- 18. Exemption Request? (Y/N) 25536(b)
- 19. Trade Secret Requested? 25538

**III. UNDERGROUND TANKS (Title 23)**

- General**
- 1. Permit Application 25284 (H&S)
- 2. Pipeline Leak Detection 25292 (H&S)
- 3. Records Maintenance 2712
- 4. Release Report 2651
- 5. Closure Plans 2670
- 6. Method
  - 1) Monthly Test
  - 2) Daily Vadose  
Semi-annual groundwater  
One time soils
  - 3) Daily Vadose  
One time soils  
Annual tank test
  - 4) Monthly Groundwater  
One time soils
  - 5) Daily Inventory  
Annual tank testing  
Cont pipe leak det  
Vadose/groundwater mon.
  - 6) Daily Inventory  
Annual tank testing  
Cont pipe leak det
  - 7) Weekly Tank Gauge  
Annual tank testing
  - 8) Annual Tank Testing  
Daily Inventory
  - 9) Other \_\_\_\_\_
- 7. Precs Tank Test 2643  
Date: \_\_\_\_\_
- 8. Inventory Rec. 2644
- 9. Soil Testing . 2646
- 10. Ground Water. 2647
- Monitoring for Existing Tanks**
- 11. Monitor Plan 2632
- 12. Access. Secure 2634
- 13. Plans Submit 2711  
Date: \_\_\_\_\_
- 14. As Built 2635  
Date: \_\_\_\_\_
- New Tanks**

Rev 6/88

Contact: Dave Chase

Title: \_\_\_\_\_

Signature: \_\_\_\_\_

Inspector: Lowenmiller

Signature: \_\_\_\_\_

II, III

**ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY  
DEPARTMENT OF ENVIRONMENTAL HEALTH  
HAZARDOUS MATERIALS DIVISION  
80 SWAN WAY, ROOM 200  
OAKLAND, CA 94621  
PHONE NO. 415/271-4320**

Project # U552988  
Paid \$498  
Date 12/11/89

**ACCEPTED**

DEPARTMENT OF ENVIRONMENTAL HEALTH  
470 27th Street, Third Floor  
Oakland, CA 94612  
Telephone: (415) 874-7237

plans have been reviewed and found to be acceptable and essentially meet the requirements of State and local health laws. Changes to your plans indicated by this Department are to assure compliance with State and local health laws. The project proposed herein is now released for issuance of any required building permits for construction. A copy of these accepted plans must be on the job and available to all contractors and craftsmen involved with the removal, change or alterations of these plans and specifications. It be submitted to this Department and to the Fire and Building Inspection Department to determine if such changes meet the requirements of State and local laws. Notify this Department at least 48 hours prior to the following required inspections:  
WMP/PLS Removal of Tank and Piping  
 Sampling  
 Final inspection  
 Issuance of a permit to operate is dependent on compliance with accepted plans and all applicable laws and regulations.  
**THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS.**

**UNDERGROUND TANK CLOSURE/MODIFICATION PLANS**

1. Business Name Oakland Scavenger Company, Altamont Landfill Division  
 Business Owner Waste Management of North America
2. Site Address 10840 Altamont Pass Road  
 City Livermore Zip 94550 Phone (415) 465-0178
3. Mailing Address 20000 Embarcadero  
 City Oakland Zip 94607 Phone (415) 532-1400
4. Land Owner Oakland Scavenger Company  
 Address 2000 Embarcadero City, State Oakland, CA Zip 94607
5. EPA I.D. No. CAD 981382732
6. Contractor Ensco Environmental Services, Inc.  
 Address 41674 Christy Street  
 City Fremont Phone (415) 659-0404  
 License Type "A" General Engineering ID# 550205
7. Consultant Ensco Environmental Services, Inc.  
 Address 41674 Christy Street  
 City Fremont Phone (415) 659-0404

8. Contact Person for Investigation

Name Clay Rumbaon Title Project Engineer

Phone (714) 474-2311

9. Total No. of Tanks at facility 2

10. Have permit applications for all tanks been submitted to this office? Yes  No

11. State Registered Hazardous Waste Transporters/Facilities

a) Product/Waste Tranporter

Name NA EPA I.D. No. \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

b) Rinsate Transporter

Name H & H Ship Services EPA I.D. No. CAD004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

c) Tank Transporter

Name H & H Ship Services EPA I.D. No. CAD004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

d) Tank Disposal Site

Name H & H Ship Services EPA I.D. No. CAD004771168

Address 220 China Basin

City San Francisco State CA Zip 94107

e) Contaminated Soil Transporter

Name NA EPA I.D. No. \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

12. Sample Collector

Name "On site technician with Chain of Custody"  
 Company Ensco Environmental Services, Inc.  
 Address 41674 Christy Street  
 City Fremont State CA Zip 94538 Phone (415) 659-0404

13. Sampling Information for each tank or area

Tank or Area		Material sampled	Location & Depth
Capacity	Historic Contents (past 5 years)		
12,000	<del>Unleaded Fuel</del> DIESEL	Soil	Native Soil 1 Sample Beneath each end of tank
10,000	Diesel Fuel	Soil	Native Soil 1 Sample Beneath each end of tank
	Tank piping & vent lines	Soil	Dispenser Island 1 Sample per 25' of piping

14. Have tanks or pipes leaked in the past? Yes [ ] No [X]

If yes, describe. \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

15. NFPA methods used for rendering tank inert? Yes [X] No [ ]

If yes, describe. Inert tanks with 25 pound per 1000 gallon of tank capacity  
inert with dry ice/

An explosion proof combustible gas meter shall be used to verify tank inertness.

16. Laboratories

Name BC Analytical  
 Address 1255 Powell Street  
 City Emeryville State CA Zip 94608  
 State Certification No. Cal State Hazourdous waste ID #1004

17. Chemical Methods to be used for Analyzing Samples

Contaminant Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Number
TPHD	EPA 3510	EPA Modified 8015
BTEX	EPA 5030	EPA 8020
TPHG	EPA 5030	EPA Modified 8015
BTEX	EPA 5030	EPA 8020

18. Submit Site Safety Plan

19. Workman's Compensation: Yes  No

Copy of Certificate enclosed? Yes  No

Name of Insurer Liberty Mutual Insurance Company

20. Plot Plan submitted? Yes  No

21. Deposit enclosed? Yes  No

22. Please forward to this office the following information within 60 days after receipt of sample results.

- a) Chain of Custody Sheets
- b) Original Signed Laboratory Reports
- c) TSD to Generator copies of wastes shipped and received
- d) Attachment A summarizing laboratory results



I declare that to the best of my knowledge and belief the statements and information provided above are correct and true. I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

I understand that any changes in design, materials or equipment will void this plan if prior approval is not obtained.

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel and safety.

I will notify the Department of Environmental Health at least two (2) working days (48 hours) after approval of this closure plan in advance to schedule any required inspections. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Signature of Contractor

Name (please type) Gary DellaVecchia  
Signature Gary L. Della Vecchia  
Date 12-11-89

Signature of Site Owner or Operator

Name (please type) Michael Crosetti  
Signature Michael Crosetti  
Date 12/11/89

Uniform Hazardous Waste Manifest  
 1. Generator's US EPA ID No. CA1D1918113181217131241714131F  
 Manifest Document No. 41714131F  
 2. Page 1 of 1  
 Information in the shaded areas is not required by Federal law.

3. Generator's Name and Mailing Address  
 Oakland Scavanger Company Altamont Landfill Division  
 10840 Altamont Pass Road, Livermore, CA. 94550  
 4. Generator's Phone (415) 449-6349

6. Transporter 1 Company Name H & H Ship Services  
 6. US EPA ID Number CA1D10147711168  
 C. State Transporter's ID 003746  
 D. Transporter's Phone (415) 543-4835

7. Transporter 2 Company Name  
 8. US EPA ID Number  
 E. State Transporter's ID  
 F. Transporter's Phone

9. Designated Facility Name and Site Address  
 H & H Ship Services  
 220 China Basin  
 San Francisco, CA. 94107  
 10. US EPA ID Number CA1D10147711168  
 G. State Facility's ID  
 H. Facility's Phone (415) 543-4835

11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number)	12. Containers No.	13. Total Quantity	14. Unit Wt/Vol	15. Waste No.	
				State	EPA/Other
a. California Regulated Waste Only Empty underground storage tank (Diesel)	01011	TIP	110101010	P	513 N/A
b.					State EPA/Other
c.					State EPA/Other
d.					State EPA/Other

J. Additional Descriptions for Materials Listed Above  
 One 10,000 Gallon underground storage tank last containing diesel  
 K. Handling Codes for Wastes Listed Above  
 a. b. c. d.

16. Special Handling Instructions and Additional Information  
 Hard hat, Steel toed boots, gloves, and safety glasses  
 Trans. and Disposal P.O.# 16613

16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  
 If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.

Printed/Typed Name X D.W. Goode  
 Signature X [Signature]  
 Month Day Year 0119390

17. Transporter 1 Acknowledgement of Receipt of Materials  
 Printed/Typed Name X Fredric T. Neal  
 Signature X [Signature]  
 Month Day Year 0110390

18. Transporter 2 Acknowledgement of Receipt of Materials  
 Printed/Typed Name  
 Signature  
 Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.  
 Printed/Typed Name  
 Signature  
 Month Day Year

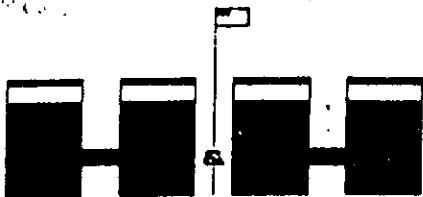
GENERATOR  
 TRANSPORTER  
 FACILITY

Please print or type. (Form designed for use on elite (12-pitch typewriter).

<b>UNIFORM HAZARDOUS WASTE MANIFEST</b>		1. Generator's US EPA ID No. CICAID191811131812171312		Manifest Document No. 41714131F	2. Page 1 of 1		Information in the shaded areas is not required by Federal law.			
3. Generator's Name and Mailing Address. Oakland Scavenger Company Altamont land fill division 10840 Altamont Pass Road, Livermore, CA. 94550					A. State Manifest Document Number 89623218					
4. Generator's Phone (415) 449-6349					B. State Generator's ID					
5. Transporter 1 Company Name H & H Ship Services			6. US EPA ID Number ICIAID10101477111618		C. State Transporter's ID 003745					
7. Transporter 2 Company Name					D. Transporter's Phone (415) 543-4835					
8. US EPA ID Number					E. State Transporter's ID					
9. Designated Facility Name and Site Address H & H Ship Services 220 China Basin San Francisco, CA. 94107					F. Transporter's Phone					
10. US EPA ID Number ICIAID10101477111618					G. State Facility's ID					
					H. Facility's Phone (415) 543-4835					
11. US DOT Description (Including Proper Shipping Name, Hazard Class, and ID Number) a. California Regulated Waste Only empty underground storage tank (Diesel)					12. Containers No. Type		13. Total Quantity		14. Unit Wt/Vol	
					0, 0 1 T, P		12 0 0 0		P	
b.									State	
c.									State	
d.									State	
J. Additional Descriptions for Materials Listed Above One 12,000 Gallon underground storage tank last containing diesel					K. Handling Codes for Wastes Listed Above					
15. Special Handling Instructions and Additional Information Hard hat, Steel toed-boots gloves safety glasses  Trans. and Disposal P.O. #16613										
16. GENERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked, and labeled, and are in all respects in proper condition for transport by highway according to applicable international and national government regulations.  If I am a large quantity generator, I certify that I have a program in place to reduce the volume and toxicity of waste generated to the degree I have determined to be economically practicable and that I have selected the practicable method of treatment, storage, or disposal currently available to me which minimizes the present and future threat to human health and the environment; OR, if I am a small quantity generator, I have made a good faith effort to minimize my waste generation and select the best waste management method that is available to me and that I can afford.										
Printed/Typed Name KDW Grede				Signature KDW Grede			Month Day Year 01103910			
17. Transporter 1 Acknowledgement of Receipt of Materials										
Printed/Typed Name ESTEBAN M. PENALVA				Signature [Signature]			Month Day Year 01103910			
18. Transporter 2 Acknowledgement of Receipt of Materials										
Printed/Typed Name				Signature			Month Day Year			
19. Discrepancy Indication Space										
20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.										
Printed/Typed Name				Signature			Month Day Year			

Do Not Write Below This Line

White: TSDf SENDS THIS COPY TO DOHS WITHIN 30 DAYS  
 To: P.O. Box 3000, Sacramento, CA 95812



**ENVIRONMENTAL SERVICES**

(DIVISION OF H & H SHIP SERVICE CO., INC.)

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

*CERTIFICATE OF DISPOSAL*

JANUARY 6, 1990

H & H Ship Service Company hereby certifies to ENSCO  
that: -----

1. The storage tank(s), size(s) 1-12,000 GALS. AND 1-10,000 GALS.  
FIBERGLASS  
-----

removed from the OAKLAND SCAVENGER COMPANY  
-----

facility at 10840 ALTAMONT PASS ROAD  
-----

LIVERMORE, CALIFORNIA  
-----

were transported to H & H Ship Service Company, 220 China Basin St.,  
San Francisco, California 94107.

2. The following tank(s), H & H Job Number 2894  
-----

have been steamed cleaned, rendered harmless, demolished and  
disposed of as general refuse.

3. Disposal site: SANITARY FILL COMPANY, SAN FRANCISCO, CALIFORNIA.  
-----

4. The foregoing method of destruction/disposal is suitable for the  
materials involved, and fully complies with all applicable  
regulatory and permit requirements.

5. Should you require further information, please call  
(415) 543-4835.

Very Truly Yours,

Cleveland Valrey  
Operations Coordinator





**ENVIRONMENTAL SERVICES**  
 (DIVISION OF H&H SHIP SERVICE CO., INC.)

220 CHINA BASIN, P.O. BOX 77363 • SAN FRANCISCO, CA 94107 • DAY AND NIGHT: 543-4835

CERTIFICATE OF DISPOSAL

JANUARY 6, 1990

H & H Ship Service Company hereby certifies to ENSCO  
 that: -----

1. The storage tank(s), size(s) 1-12,000 GALS. AND 1-10,000 GALS.  
FIBERGLASS  
 -----

removed from the OAKLAND SCAVENGER COMPANY  
 facility at 10840 ALTAMONT PASS ROAD  
LIVERMORE, CALIFORNIA  
 -----

were transported to H & H Ship Service Company, 220 China Basin St.,  
 San Francisco, California 94107.

2. The following tank(s), H & H Job Number 2894  
 -----  
 have been steamed cleaned, rendered harmless, demolished and  
 disposed of as general refuse.
3. Disposal site: SANITARY FILL COMPANY, SAN FRANCISCO, CALIFORNIA.  
 -----
4. The foregoing method of destruction/disposal is suitable for the  
 materials involved, and fully complies with all applicable  
 regulatory and permit requirements.
5. Should you require further information, please call  
 (415) 543-4835.

Very Truly Yours,

Cleveland Valrey  
 Operations Coordinator



CHAIN OF CUSTODY RECORD

BC Log Number 9010063

Client name <u>Enasco Environmental Services</u>				Project or PO# <u>3580-01</u>		Analyses required <div style="display: flex; justify-content: space-between; align-items: center;"> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Diesel 35.10</div> <div style="writing-mode: vertical-rl; transform: rotate(180deg);">Hazardous sample Special handling required</div> </div>													
Address				Phone #															
City, State, Zip				Report attention <u>Caryl. Della Vecchia</u>															
Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by <u>J. LaPlante</u>	Number of containers									Remarks					
				Sample description															
<u>7</u>	<u>1/4/90</u>		<u>AQ</u>	<u>Site #4</u>	<u>2</u>	<u>X</u>													

Signature	Print Name	Company	Date	Time
Relinquished by <u>J. LaPlante</u>	<u>J. LaPlante</u>	<u>BCA</u>	<u>1/4/90</u>	<u>16:40</u>
Received by <u>[Signature]</u>	<u>[Signature]</u>	<u>BIA</u>	<u>1/4/90</u>	<u>16:40</u>
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory				

**BROWN AND CALDWELL LABORATORIES**

- 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300
- 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553
- 1200 Pacifico Avenue, Anaheim, CA 92805

Note:

Samples are discarded 30 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

\*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil OT—Other PE—Petroleum

CHAIN OF CUSTODY RECORD

BC Log Number 9001063

Client name <b>ENSCO Environmental Services, Inc.</b>	Project or PO# <b>3580-01</b>
Address <b>41674 Christy St.</b>	Phone # <b>659-0404</b>
City, State, Zip <b>Fremont</b>	Report attention <b>Gary L. Della Vecchia</b>

Analyses required									
TPH, D w/BTEX * Hazardous sample Special handling required									
Remarks									

Lab Sample number	Date sampled	Time sampled	Type* See key below	Sampled by <b>J. LaPlante</b>	Number of containers	Analyses required										Remarks
	1/3/90			#1	2											Will call 1/4/89
				#2	2											with P.O. for
				#3	2											this work &
				#4	2											OC's.
				#5	2											
	1/3/89			#6	2											Wants <u>5 day</u>
	1/3/89			Standing water at Site #1	2											turnaround!!

Signature	Print Name	Company	Date	Time
Relinquished by <i>J. LaPlante</i>	J. LaPlante	BCA	1/3/90	18:05
Received by				
Relinquished by				
Received by				
Relinquished by				
Received by Laboratory <i>[Signature]</i>	ROTHI FLORES	BCA	1/3/90	18:15

**BROWN AND CALDWELL LABORATORIES**

- 1255 Powell Street, Emeryville, CA 94608 (415) 428-2300
- 373 South Fair Oaks Avenue, Pasadena, CA 91105 (818) 795-7553
- 1200 Pacifico Avenue, Anaheim, CA 92805

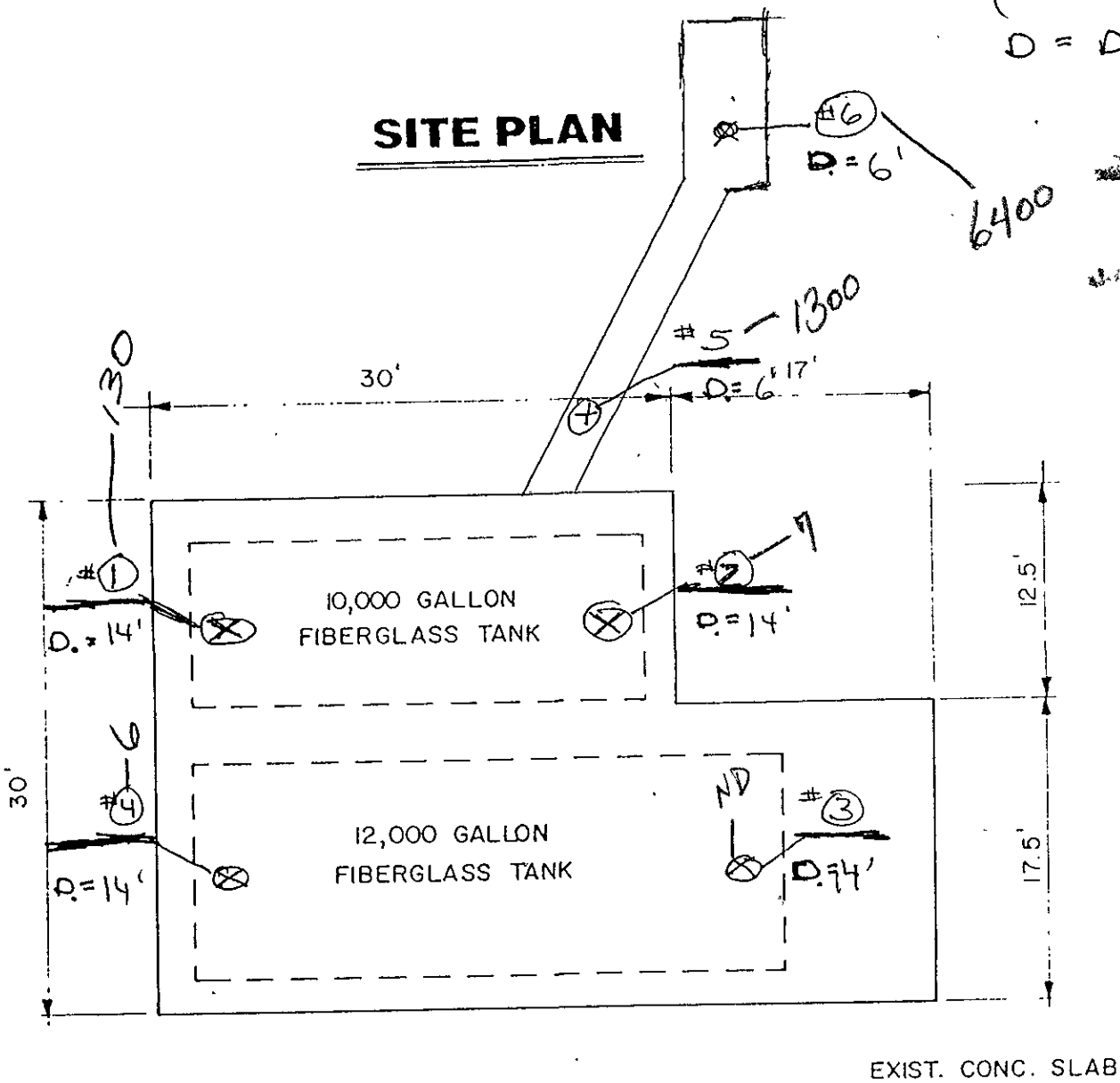
Note:  
 Samples are discarded 30 days after results are reported unless other arrangements are made.  
 Hazardous samples will be returned to client or disposed of at client expense.

\*KEY: AQ—Aqueous NA—Nonaqueous SL—Sludge GW—Groundwater SO—Soil OT—Other PE—Petroleum

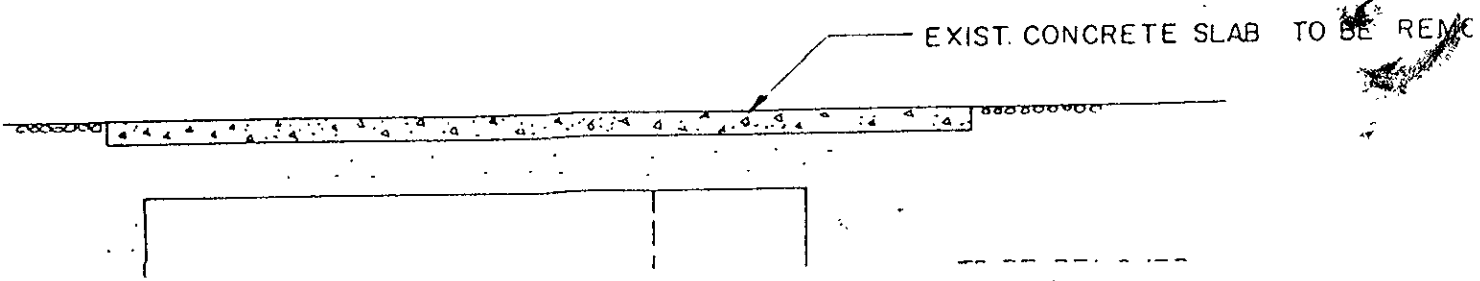


Sample Location  
 MAP; TAKEN 1-3-98  
 By MARK Schnack.  
 D = Depth

**SITE PLAN**



**PLAN VIEW**





# Analytical Report

LOG NO: E90-01-063

Received: 03 JAN 90

Reported: 12 JAN 90

Mr. Gary Dellavecchia  
Enesco Environmental Services, Inc.  
41674 Christy Street  
Fremont, California 94538-3114

Purchase Order: 16648

## REPORT OF ANALYTICAL RESULTS

Page 2

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED
01-063-6	#6	03 JAN 90
PARAMETER	01-063-6	
Aromatic Hydrocarbons		
Date Analyzed	01.09.90	
Dilution Factor, Times	2	
Benzene, mg/kg	<0.2	
Ethylbenzene, mg/kg	<0.2	
Toluene, mg/kg	<0.2	
Total Xylene Isomers, mg/kg	<0.2	
Diesel Method 3550		
Date Analyzed	01.06.90	
Dilution Factor, Times	30	
Fuel Hydrocarbons, mg/kg	6400	
Fuel Characterization, .	DIESEL	
Other Diesel Method 3550	---	

This Fuel characterization is qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

# Analytical Report

LOG NO: E90-01-063

Received: 03 JAN 90

Reported: 12 JAN 90

Mr. Gary Dellavecchia  
EnSCO Environmental Services, Inc.  
41674 Christy Street  
Fremont, California 94538-3114

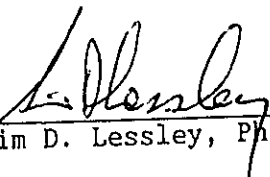
Purchase Order: 16648

## REPORT OF ANALYTICAL RESULTS

Page 3

LOG NO	SAMPLE DESCRIPTION, WASTEWATER SAMPLES	DATE SAMPLED
01-063-7	Standing Water At Site #4	03 JAN 90
PARAMETER	01-063-7	
Aromatic Hydrocarbons	01.09.90	
Date Analyzed	10	
Dilution Factor, Times	<3	
Benzene, ug/L	<3	
Ethylbenzene, ug/L	<3	
Toluene, ug/L	10	
Total Xylene Isomers, ug/L		
Diesel Method 3510	01.09.90	
Date Analyzed	10	
Dilution Factor, Times	7300	
Fuel Hydrocarbons, ug/L	DIESEL	
Fuel Characterization, .	---	
Other Diesel Method 3510		

Please note that extra sample concentration step was performed to achieve lower detection limits for BTEX analysis as reflected in samples 2,3 and 4. The low detection limits were not achievable in the other samples due to high level of hydrocarbons in those samples.  
C. Ho 1.12.90

  
Sim D. Lessley, Ph.D., Laboratory Director

# Analytical Report

LOG NO: E90-01-063

Received: 03 JAN 90

Reported: 12 JAN 90

Mr. Gary Dellavecchia  
 Ensco Environmental Services, Inc.  
 41674 Christy Street  
 Fremont, California 94538-3114

Purchase Order: 16648

## REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES					DATE SAMPLED
01-063-1	#1					03 JAN 90
01-063-2	#2					03 JAN 90
01-063-3	#3					03 JAN 90
01-063-4	#4					03 JAN 90
01-063-5	#5					03 JAN 90
PARAMETER	01-063-1	01-063-2	01-063-3	01-063-4	01-063-5	
Aromatic Hydrocarbons						
Date Analyzed	01.09.90	01.10.90	01.10.90	01.10.90	01.09.90	
Dilution Factor, Times	1	1	1	1	1	
Benzene, mg/kg	<0.1	<0.02	<0.02	<0.02	<0.1	
Ethylbenzene, mg/kg	<0.1	<0.02	<0.02	<0.02	<0.1	
Toluene, mg/kg	<0.1	<0.02	0.03	<0.02	<0.1	
Total Xylene Isomers, mg/kg	<0.1	<0.02	<0.02	<0.02	<0.1	
Diesel Method 3550						
Date Analyzed	01.09.90	01.09.90	01.09.90	01.09.90	01.09.90	
Dilution Factor, Times	1	1	1	1	10	
Fuel Hydrocarbons, mg/kg	130	7	<1	6	1300	
Fuel Characterization, .	DIESEL	DIESEL	---	DIESEL	DIESEL	
Other Diesel Method 3550	---	---	---	---	---	

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.



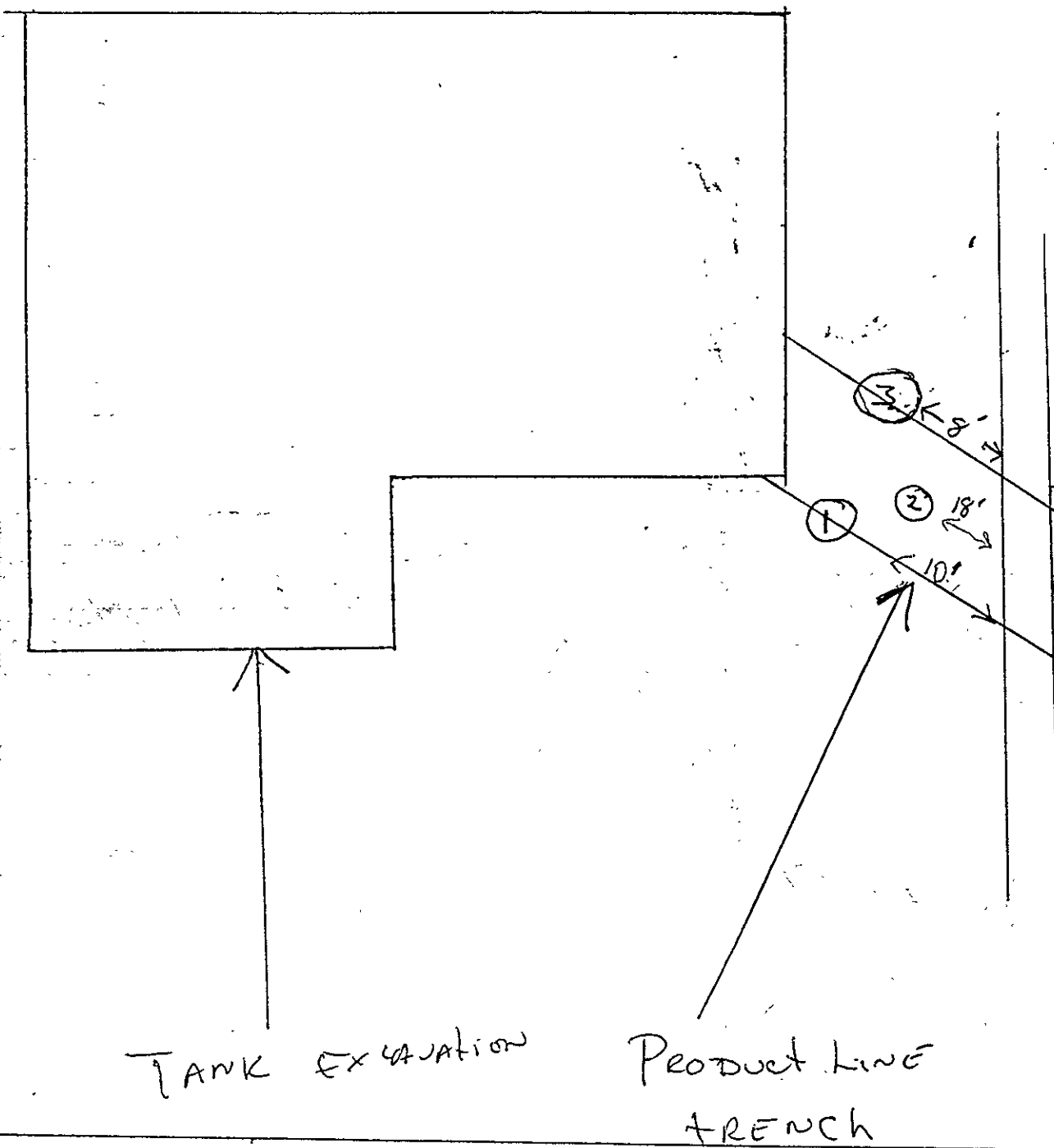
### CHAIN OF CUSTODY RECORD

6600445  
9001545

PROJECT NO # 743		PROJECT NAME Waste Management				TEST REQUESTED				P.O.# 16800	
SAMPLERS (Signature) Brian Livingston						TPHD	BTEX				LAB B.C. Analytical
											TURN AROUND TIME 48 Hours
NO.	DATE	TIME	STATION AND LOCATION								REMARKS
1	1-18-90	2:00	South Siderwall west								Composite 1,2,3
2	1-18-90	2:05	Bottom west			X	X				
3	1-18-90	2:30	North Siderwall west								
4	1-18-90	2:25	South Siderwall East								Composite 4,5,6
5	1-18-90	2:15	Bottom EAST			X	X				
6	1-18-90	2:20	North Siderwall EAST								
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:		RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	
Brian Livingston											
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:		RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	
REMARKS: 48 Hour TAT						ensco environmental services, inc.					
REPORT TO: Gary L. Della Vecchia						41674 Christy Street Fremont, C.A. 94538-3114					

1/23/90

Restroom



Legend

#1	4' Deep
#2	8' Deep
#3	4' Deep
#4	5' Deep
#5	8' Deep
#6	5' Deep

TANK EXCAVATION

Product Line  
TRENCH

Electric line

OFFICE BUILDINGS

# CHAIN OF CUSTODY RECORD

*W000445*  
*9001545*


PROJECT NO		PROJECT NAME			TEST REQUESTED						P.O. #
OPERATORS (Signature)		DATE	TIME	STATION AND LOCATION	TPHD	BTEX					LAB
<i>Brian Livingston</i>											<i>16800</i>
											<i>B.C. Analytical</i>
											<i>TURN AROUND TIME 48 HOURS</i>
											<b>REMARKS</b>
	<i>1-18-90</i>	<i>2:20</i>		<i>South Sidewall West</i>							<i>Composite 1, 2, 3</i>
	<i>1-18-90</i>	<i>2:05</i>		<i>Bottom West</i>	<i>X</i>	<i>X</i>					
	<i>1-18-90</i>	<i>2:30</i>		<i>NORTH Sidewall West</i>							
	<i>1-18-90</i>	<i>2:25</i>		<i>South Sidewall East</i>							<i>Composite 4, 5, 6</i>
	<i>1-18-90</i>	<i>2:15</i>		<i>Bottom East</i>	<i>X</i>	<i>X</i>					
	<i>1-18-90</i>	<i>2:20</i>		<i>NORTH Sidewall East</i>							

*R. D. DUE*  
*1/23/90*

RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:
<i>Brian Livingston</i>			<i>[Signature]</i>				
RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:	RELINQUISHED BY:	DATE:	TIME:	RECEIVED BY:

REMARKS: *48 Hour TAT*

REPORT TO: *GARY L. DELLA VECCIA*

 ensco environmental services, inc.

41674 Christy Street  
Fremont, C.A. 94538-3114

(415) 659-0404  
Fax (415) 651-4677  
Contr. Lic. No. 550205

# Analytical Report

LOG NO: E90-01-545

Received: 19 JAN 90

Reported: 23 JAN 90

Mr. Gary Dellavecchia  
Ensco Environmental Services, Inc.  
41674 Christy Street  
Fremont, California 94538-3114

Purchase Order: 16800

Project: 4743-1

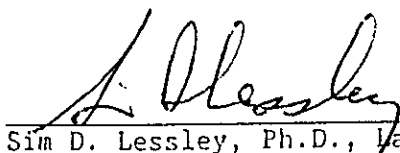
## REPORT OF ANALYTICAL RESULTS

Page 1


LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
01-545-1	Sample #1, 2, 3 Composite	18 JAN 90	
01-545-2	Sample #4, 5, 6 Composite	18 JAN 90	
PARAMETER	01-545-1	01-545-2	
Aromatic Hydrocarbons			
Date Analyzed	01.22.90	01.22.90	
Dilution Factor, Times	1	1	
Benzene, mg/kg	<0.1	<0.1	
Ethylbenzene, mg/kg	<0.1	<0.1	
Toluene, mg/kg	<0.1	<0.1	
Total Xylene Isomers, mg/kg	<0.1	<0.1	
Diesel Method 3550			
Date Analyzed	01.19.90	01.19.90	
Dilution Factor, Times	1	50	
Fuel Hydrocarbons, mg/kg	61	750	
Fuel Characterization, .	DIESEL	DIESEL	
Other Diesel Method 3550	---	---	

Please note that lower detection limits for BTEX by method EPA 8020 were not achievable due to levels of hydrocarbons in both samples. C. Ho 1/23/90

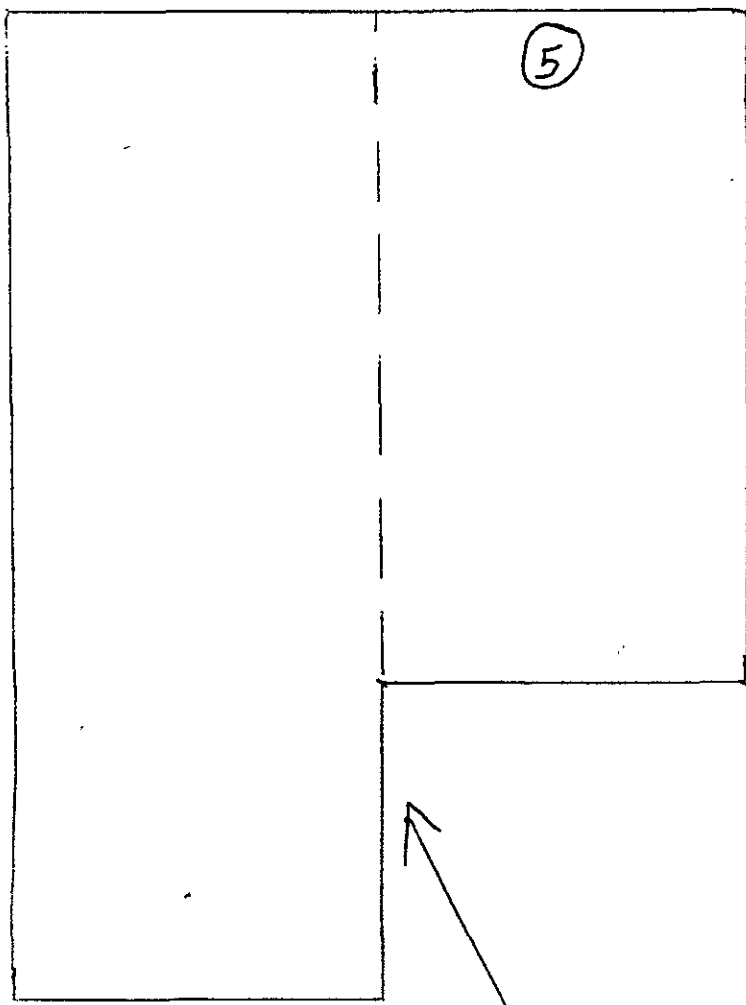
This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

  
Sim D. Lessley, Ph.D., Laboratory Director

# CHAIN OF CUSTODY RECORD

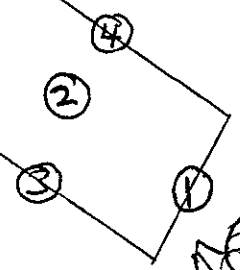
PROJECT NO		PROJECT NAME		TEST REQUESTED						P.O. #
743		Chemical Waste Management		TPHD	BTEX					LAB: B.C. Analytical
SAMPLERS (Signature)		[Signature]								TURN AROUND TIME
NO.	DATE	TIME	STATION AND LOCATION							REMARKS
1	1-24-90	10 AM	SIDEWALL EAST							Composite 1,2,3+4
2	1-24-90	10:06	Bottom	X	X					
3	1-24-90	10:30	Sidewall South							
4	1-24-90	10:40	Sidewall North							
5	1-24-90	10:50	NORTH END TANK EXCAVATION	X	X					
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	
[Signature]		1/25	11:00	[Signature]						
RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	RELINQUISHED BY:		DATE:	TIME:	RECEIVED BY:	
REMARKS: TPHD / BTEX				 <b>ensco environmental services, inc.</b> 41674 Christy Street Fremont, C.A. 94538-3114 (415) 659-0404 Fax (415) 651-4677 Contr. Lic. No. 550205						
REPORT TO: GARY DELLAVecchia										





○ = Sampling Points

- Legend
- #1 7' Deep
  - #2 11' Deep
  - #3 5' Deep
  - #4 6' Deep
  - #5 15 1/2' Deep



← Eucalyptus TREE

← Product line Trench

← Electric line

TANK EXCAVATION

Office Buildings

# Analytical Report

LOG NO: E90-02-166

Received: 06 FEB 90

Reported: 21 FEB 90

Mr. Gary Dellavachia  
EnSCO Environmental Services, Inc.  
41674 Christy Street  
Fremont, California 94538-3114

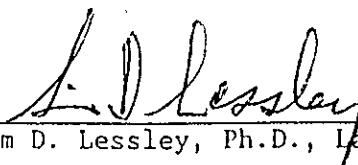
Purchase Order: 16956

## REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED			
02-166-1	Sample A	05 FEB 90			
02-166-2	Sample B	05 FEB 90			
02-166-3	Sample C	05 FEB 90			
02-166-4	Sample D	05 FEB 90			
PARAMETER	02-166-1	02-166-2	02-166-3	02-166-4	
Aromatic Hydrocarbons					
Date Analyzed	02.19.90	02.19.90	02.18.90	02.18.90	
Dilution Factor, Times	5	10	1	1	
Benzene, mg/kg	<0.5	<1	<0.1	<0.1	
Ethylbenzene, mg/kg	<0.5	<1	<0.1	<0.1	
Toluene, mg/kg	<0.5	<1	<0.1	<0.1	
Total Xylene Isomers, mg/kg	<0.5	1.2	<0.1	<0.1	
Diesel Method 3550					
Date Analyzed	02.10.90	02.10.90	02.10.90	02.10.90	
Dilution Factor, Times	10	20	1	1	
Fuel Hydrocarbons, mg/kg	350	2000	27	39	
Fuel Characterization, .	DIESEL	DIESEL	DIESEL	DIESEL	
Other Diesel Method 3550	---	---	---	---	

This Fuel characterization is a qualitative identification based upon a visual comparison of sample chromatograms with those from authentic standards.

  
Sim D. Lessley, Ph.D., Laboratory Director

# Analytical Report

LOG NO: E90-01-724

Received: 25 JAN 90

Reported: 26 JAN 90

Mr. Gary Dellavachia  
Ensco Environmental Services, Inc.  
41674 Christy Street  
Fremont, California 94538-3114

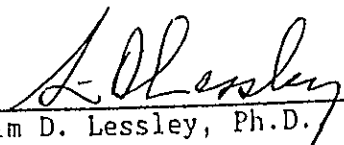
Purchase Order: 16852

## REPORT OF ANALYTICAL RESULTS

Page 1

LOG NO	SAMPLE DESCRIPTION, SOIL SAMPLES	DATE SAMPLED	
01-724-1	A Composite Formed from Samples 1-4		
01-724-2	North End Tank Excavtion		
PARAMETER		01-724-1	01-724-2
Aromatic Hydrocarbons		01.25.90	01.25.90
Date Analyzed		1	1
Dilution Factor, Times		<0.1	<0.1
Benzene, mg/kg		<0.1	<0.1
Ethylbenzene, mg/kg		<0.1	<0.1
Toluene, mg/kg		<0.1	<0.1
Total Xylene Isomers, mg/kg		<0.1	<0.1
Diesel Method 3550		01.25.90	01.25.90
Date Analyzed		1	1
Dilution Factor, Times		<1	<1
Fuel Hydrocarbons, mg/kg		---	---
Other Diesel Method 3550		---	---

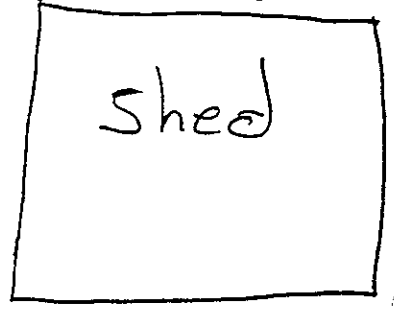
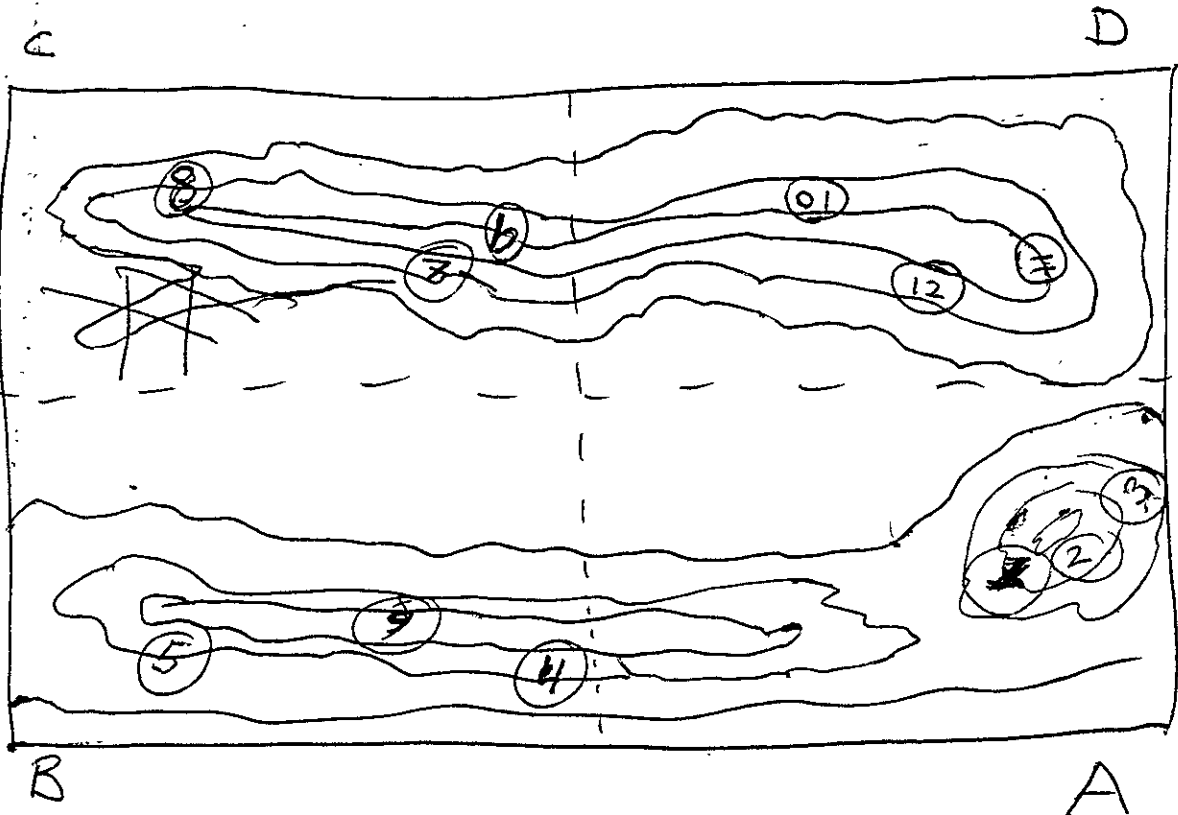
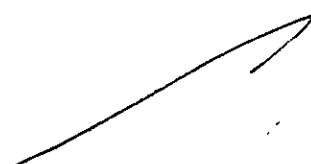
Please note that lower detection limits for BTEX analysis by EPA 8020 were not achievable due to matrix interference experienced in the analysis.  
C. Ho 1.26.90

  
Sim D. Lessley, Ph.D. Laboratory Director



# HILL

N



office

A = 1, 2, 3 = Composite / 1 = 2' ht. - 2 = 2.5' - 3 = 1.5'  
B = 4, 5, 6 = " / 4 = 2' ht. - 5 = 1.5' - 6 = 3'  
C = 7, 8, 9 = " / 7 = 2' ht. - 8 = 1.5' - 9 = 1.75'  
D = 10, 11, 12 = " / 10 = 2' ht. - 11 = 1.75' - 12 = 1.5'