

UNDERGROUND STORAGE TANK (UST) REMOVAL,
SOIL SAMPLING AND LABORATORY
ANALYSIS AT WINDSOR SQUARE AUTO
SERVICE, 1900 LEWELLING BOULEVARD,
SAN LEANDRO, CALIFORNIA
FOR
VERL'S CONSTRUCTION, INC.

NO. EV-500/E163-01
OCTOBER 18, 1990

90 NOV 13 PM 2:33



ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
CONSULTANTS IN APPLIED EARTH SCIENCE

2495 INDUSTRIAL PARKWAY WEST, HAYWARD, CALIFORNIA 94545
TELEPHONE (415) 786-0243 • FAX (415) 732-0289

No. EV-500/E163-01
October 18, 1990

Verl's Construction, Inc.
753 Peralta Ave.
San Leandro, CA 94577

Attention: Mr. Merlin Bowen

SUBJECT: Underground Storage Tank (UST) Removal, Soil Sampling and Laboratory Analysis at Windsor Square Auto Service, 1900 Lewelling Blvd., San Leandro, California.

Gentlemen:

This report describes the results of soil sampling and laboratory results by Environmental Geotechnical Consultants, (EGC) at the above referenced site. The site location is shown on Figure 1. Field work and laboratory analysis were performed in compliance with current Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, dated August 10, 1990.

SCOPE OF WORK

EGC was contracted by Verl's Construction, Inc., (VCI) to perform soil sampling and laboratory analysis of soil samples collected underneath an underground storage tank.

UST REMOVAL

The 285 gallon tank contained waste oil for an unknown length of time. The approximate location of the tank is shown on Figure 2. The UST was removed by VCI. Permits for UST removal, the Closure Plan and the Uniform Hazardous Waste Manifest are included as Appendix A. Excavation began on September 25, 1990. As asphalt surrounding the tank fill pipe was removed, a thick, black, oily substance was observed underneath the asphalt. On September 26, 1990, the interior of the tank was pressure washed and the rinsate vacuumed out by Waste Oil Recovery Systems and taken to their facility in San Leandro.

Solid carbon dioxide (dry ice) was introduced into the tank to displace potentially explosive vapors. City of San Leandro Hazardous Materials Inspector, Mr. Mike Bakaldin, verified safe lower explosive limit (LEL) levels within the tank with a combustible gas indicator. The tank was removed from the excavation and

inspected by Mr. Mike Bakaldin. The 3 foot diameter by 4 foot long tank showed no signs of failure and the UST was loaded onto an H&H Environmental Services flatbed truck and taken to their facility in San Francisco.

FIELD OBSERVATIONS

The approximate extent of the excavation is shown on Figure 2. The excavation was about six feet deep. Backfill soil around the tank was sandy clay and showed stains typical of petroleum product contamination. Photoionization detector (PID) readings on this soil ranged from 40 to 90 ppm as organic vapors. Black, native clay sampled two feet below the excavation had an obvious petroleum product odor. Groundwater was not encountered. The pit was not backfilled, but the area was secured with barricades pending further phases of study.

SAMPLING

The sample point location is shown on Figure 2. Inspector Bakaldin made the decision where to collect the sample as well as indicating which soil represented native material. The sample was taken from the bucket of the backhoe which collected it from eight feet below grade. Each brass liner was packed with soil and both ends were wrapped in aluminum foil and sealed with plastic end caps.

The sample was labelled, logged on a chain-of-custody form and transferred on blue ice to NET Pacific, Inc., an environmental laboratory certified by the California Department of Health Services to perform the required tests. The sample was analyzed for the following:

1. Total Petroleum Hydrocarbons as Gasoline (TPH-G) including Benzene, Toluene, Ethyl Benzene and Xylene (BTEX) by EPA methods 8015 modified/8020.
2. Total Petroleum Hydrocarbons as Diesel (TPH-D) by Department of Health Services - Leaking Underground Fuel Tank Analysis.
3. Oil and Grease by Standard Method 503D/E.
4. Chlorinated Hydrocarbons by EPA method 8240.
5. Additional samples were placed on "HOLD" status for the following analyses pending the results of the EPA 8240 analysis
Polychlorinated biphenyls (PCB) by EPA method 8080.
Polynuclear Aromatic Hydrocarbons (PNA) by EPA method 8270.
Pentachlorophenol (PCP) by EPA method 8270.
Creosote by EPA method GC/FID/3550.
Cadmium, Chromium, Lead, Nickel, and Zinc by EPA methods 6010 and 7421.

SUMMARY OF RESULTS

Analyses in micrograms/liter (ppb) unless otherwise noted.

Analysis Sample No. S-926-1

TPH-D (ppm)	ND
TPH-G (ppm)	160
B	440
T	3,200
E	1,400
X	8,600
Oil/Grease (ppm)	4,600

Chlorinated Hydrocarbons (EPA METHOD 8240)

Benzene	170
Acetone	150
Carbon disulfide	32
Ethyl benzene	900
Tetrachloroethane	210
Toluene	1,700
1,1,1-Trichloroethane	210
Xylenes, total	5,800

Additional Analyses

PCP	ND
PCB	ND

Polynuclear Aromatics (EPA METHOD 8270)

2-Methylnaphthalene	20,000
Naphthalene	12,000
Phenanthrene	2,400
Creosote	ND
Cadmium	ND
Chromium (ppm)	26
Lead (ppm)	15
Nickel (ppm)	28
Zinc (ppm)	29

ND = Analyte not present above laboratory detection limits
Laboratory results are included as Appendix B.

This report has been prepared to aid others in evaluating the current status of the subject property. It is your responsibility to make this report available to the agency noted below.

Responsible Agency

Mr. Mike Bakaldin
City of San Leandro Fire Department
Civic Center 835 E. 14th Street
San Leandro, California 94577
(415) 577-3331

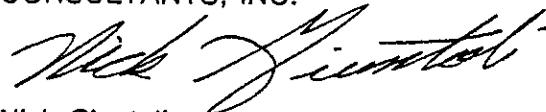
LIMITATIONS

The scope of work of this project was strictly limited to the sampling and analysis of a single soil sample from underneath an UST. Geotechnical services such as soil borings, compaction testing and observations were not a part of this scope of work. No warranty, express or implied, is given with regard to the general environmental condition of the subject property.

Please contact EGC if you have any questions or require additional information.

Very truly yours,

ENVIRONMENTAL GEOTECHNICAL
CONSULTANTS, INC.

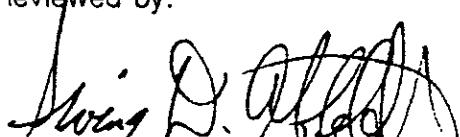


Nick Giuntoli
Environmental Specialist



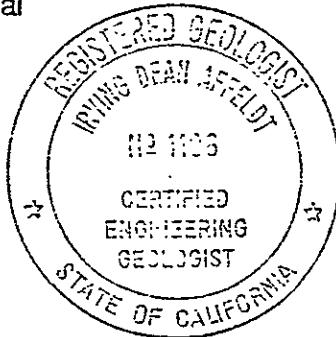
Gregory R. Millikan
Senior Project Hydrogeologist

Reviewed by:

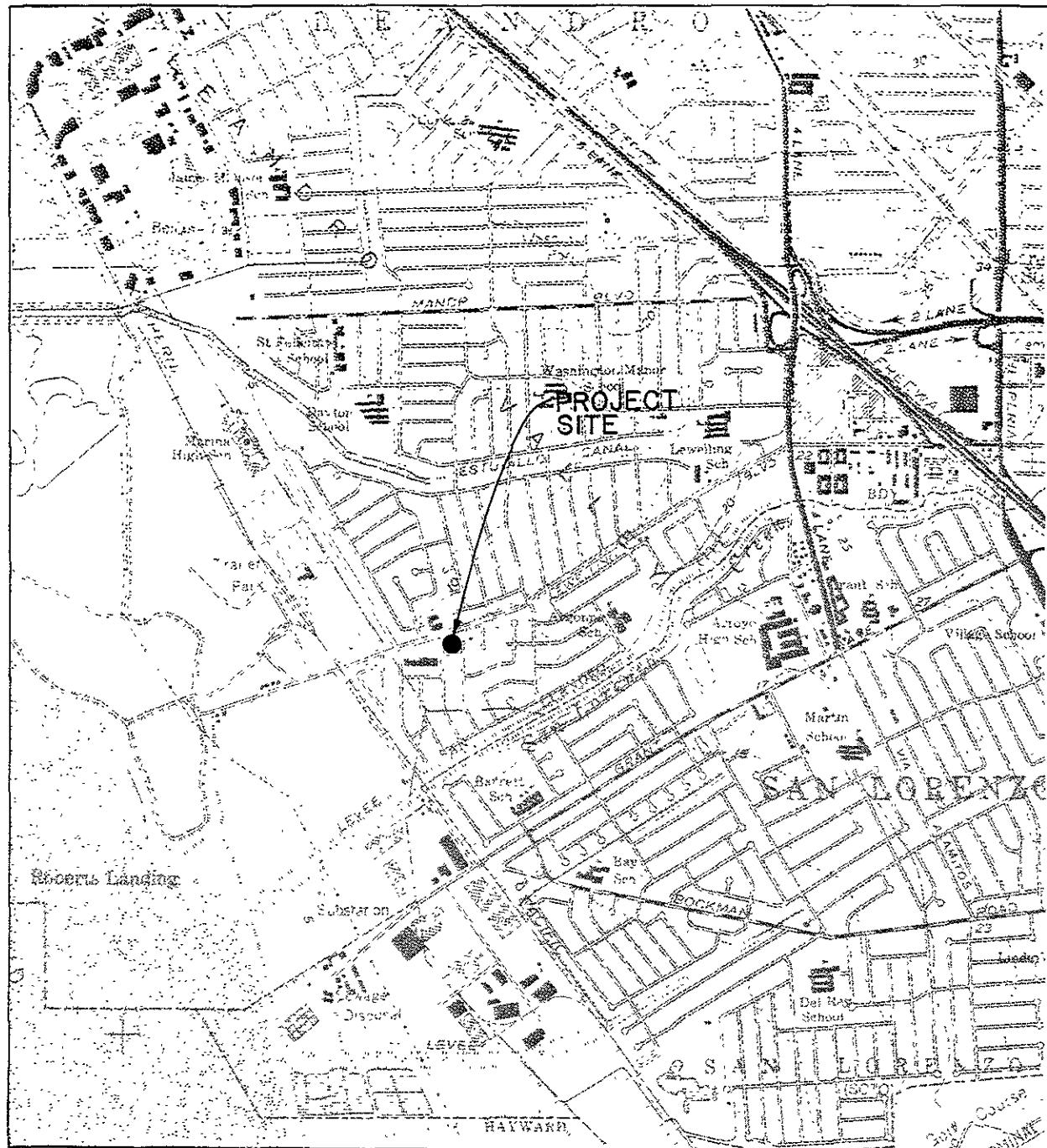


Irving D. Affeldt, CEG, REA
Principal

mak



FIGURES



A scale bar with markings at 0, 2000, and 4000 feet. The text "APPROXIMATE SCALE" is centered below the bar.

<p>NOTES</p> <p>I. BASE MAP TAKEN FROM USGS SAN LEANDRO (1980), CALIFORNIA, 7.5 MINUTE QUADRANGLE.</p>	DATE	10/09/90	<p>EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC. CONSULTANTS IN APPLIED EARTH SCIENCE</p> <p>PROJECT SITE LOCATION MAP</p> <p>WINDSOR SQUARE 1900 LEWELLING BLVD., SAN LEANDRO, CALIFORNIA</p> <p>VERL'S CONSTRUCTION, INC</p>	<p>FIGURE NO.</p> <p>1</p>
	JOB NO.	E163-01		
	DWG NO.	E163-01/1		
	DRAWN	N TO OR		
	CHK'D	G MILLIKAN		
	APP'D	J HICKS		
				REV. NO.

L E W E L L I N G B I V

SIDEW.

NOTES

- I. MAP BASED ON APPROXIMATE FIELD MEASUREMENTS (09/26/90).

1

1

BUILDING

S-926-

-926-1
PROPERTY BOUND-

**APPROXIMATE
EXCAVATION
LIMITS**

EXPLANATION

 APPROXIMATE SOIL SAMPLE LOCATION

APPROXIMATE FORMER TANK LOCATION

A horizontal scale bar with tick marks every 1 unit. The labels '0', '10', and '20 FT' are positioned above the scale. Below the scale, the text 'APPROXIMATE SCALE' is centered.

ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC.
CONSULTANTS IN APPLIED EARTH SCIENCE

PLAN AND SOIL SAMPLE LOCATION MAP

WINDSOR SQUARE
LEWELLING BLVD, SAN LEANDRO, CA
VERL'S CONSTRUCTION INC.

						PROFESSIONAL SEAL	DATE 10/09/90	EGC ENVIRONMENTAL GEOTECHNICAL CONSULTANTS, INC. CONSULTANTS IN APPLIED EARTH SCIENCE SITE PLAN AND SOIL SAMPLE LOCATION MAP WINDSOR SQUARE 1900 LEWELLING BLVD, SAN LEANDRO, CA VERL'S CONSTRUCTION INC.	FIGURE NO 2
						JOB NO. E163-01			
						DWG NO. E163-01/2			
						DRAWN N TOOR			
						CHK'D G MILLIKAN			
						APPR'D J HICKS			
NO.	DATE	ZONE	DESCRIPTION	DRAWN		APPROVED			
R E V I S I O N S									

APPENDIX A

BAIR ISLAND AIR QUALITY
MANAGEMENT DISTRICT
939 ELLIS STREET
SAN FRANCISCO, CALIFORNIA 94109
415/771-6000

REGULATION 8, RULE 40
Aeration of Contaminated Soil and
Removal of Underground Storage Tank

NOTIFICATION FORM

- Removal or Replacement of Tanks
 Excavation of Contaminated Soil

SITE INFORMATION

6206

1900 LEWELLING ST.

SAN LEANDRO, CA. 94579

JOHNNY LIN

CROSS WINDSOR MARKET

TANK REMOVAL

CONTAMINATED SOIL EXCAVATION

DESIRED STARTUP DATE

9-26-90

SCHEDULED STARTUP DATE

APORS REMOVED BY:

11:00 A.M. STOCKPILES WILL BE COVERED? YES NO

WATER WASH

ALTERNATIVE METHOD OF AERATION (DESCRIBE BELOW):

VAPOR FREEING (CO₂)

(MAY REQUIRE PERMIT) Bay Area Air Quality
Management District
939 Ellis Street
San Francisco, CA 94109

VENTILATION

SEP 24 REC'D

CONTRACTOR INFORMATION

VERL'S CONSTRUCTION CONTACT MERLIN BOWEN

753 PERALTA AVE. PHONE (415) 351-2525

STATE, ZIP SAN LEANDRO, CA. 94579

CONSULTANT INFORMATION

(IF APPLICABLE)

E.G.C.

CONTACT GREG MILIKAN

2495 INDUSTRIAL BLVD. PHONE (415) 780-0243

STATE, ZIP HAYWARD, CA. 94504

OFFICE USE ONLY

RECEIVED 9-24-90

BY DB

(INIT.)

INSPECTOR NO. 2492

DATE 9-25-90

BY DS

(INIT.)

PHONE UPDATE CALLER

CHANGE MADE

COMPLETED

STATE OF CALIFORNIA
STATE WATER RESOURCES CONTROL BOARD
UNDERGROUND STORAGE TANK PERMIT APPLICATION - FORM B



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM

<input checked="" type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 2 RENEWAL PERMIT	<input type="checkbox"/> 3 CHANGE OF INFORMATION	<input type="checkbox"/> 7 PERMANENTLY CLOSED TANK	MARK ONLY ONE ITEM
<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input checked="" type="checkbox"/> 8 TANK REMOVED	

FACILITY / SITE NAME WHERE TANK IS INSTALLED: **WINDSOR SQUARE**

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.#: UNKNOWN	B. MANUFACTURED BY: D
C. YEAR INSTALLED: UNKNOWN	D. TANK CAPACITY IN GALLONS: 550 GALLON

II. TANK CONTENTS

5A-1 MARKED COMPLETELY

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 2 PETROLEUM	B.	C. <input type="checkbox"/> 1 UNLEADED	<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 3 DIESEL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input type="checkbox"/> 4 OIL		<input type="checkbox"/> 4 GASOHOL	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 60 EMPTY	<input type="checkbox"/> 95 UNKNOWN		<input checked="" type="checkbox"/> 7 WASTE	<input type="checkbox"/> 99 OTHER DESCRIBE IN ITEM D. BELOW	

D. IF (A-L) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED

C.A.S.#:

III. TANK CONSTRUCTION MARK ONE ITEM ONLY IN BOXES A, B, AND C, AND ALL THAT APPLIES IN BOX D

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALLED	<input checked="" type="checkbox"/> 3 SINGLE WALLED WITH EXTERIOR LINER	<input type="checkbox"/> 95 UNKNOWN	
	<input type="checkbox"/> 2 SINGLE WALLED	<input type="checkbox"/> 4 SECONDARY CONTAINMENT	<input type="checkbox"/> 99 OTHER	
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS	
	<input type="checkbox"/> 3 CONCRETE	<input type="checkbox"/> 4 POLYVINYL CHLORIDE	<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC	
	<input type="checkbox"/> 5 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input type="checkbox"/> 5 ALUMINUM	
			<input type="checkbox"/> 6 100% METHANOL COMPATIBLE FRP	
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINING	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 7 EPOXY LINING	
	<input type="checkbox"/> 5 GLASS LINING	<input checked="" type="checkbox"/> 8 UNLINED	<input type="checkbox"/> 4 PHENOLIC LINING	
			<input type="checkbox"/> 95 UNKNOWN	
			<input type="checkbox"/> 99 OTHER	
IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO				
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP	<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
	<input type="checkbox"/> 3 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 94 UNKNOWN	<input type="checkbox"/> 99 OTHER

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE (MARK ALL THAT APPLY)

A. SYSTEM TYPE	<input checked="" type="checkbox"/> 1 SUCTION	<input type="checkbox"/> 2 PRESSURE	<input type="checkbox"/> 3 GRAVITY	<input type="checkbox"/> 4 U 95 OTHER
B. CONSTRUCTION	<input checked="" type="checkbox"/> 1 SINGLE WALLED	<input type="checkbox"/> 2 DOUBLE WALLED	<input type="checkbox"/> 3 LINED TRENCH	<input type="checkbox"/> 4 U 95 UNKNOWN
C. MATERIAL AND CORROSION PROTECTION	<input checked="" type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 POLYVINYL CHLORIDE (PVC)	<input type="checkbox"/> 4 U 95 FIBERGLASS PIPE
	<input type="checkbox"/> 5 ALUMINUM	<input type="checkbox"/> 6 CONCRETE	<input type="checkbox"/> 7 STEEL W/ COATING	<input type="checkbox"/> 8 100% METHANOL COMPATIBLE FRP
	<input type="checkbox"/> 6 GALVANIZED STEEL	<input type="checkbox"/> 10 CATHODIC PROTECTION	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 U 95 OTHER	

V. TANK LEAK DETECTION MARK ALL THAT APPLY

<input type="checkbox"/> 1 VISUAL CHECK	<input type="checkbox"/> 2 INVENTORY RECONCILIATION	<input type="checkbox"/> 3 VAPOR MONITORING	<input type="checkbox"/> 4 AUTOMATIC TANK GAUGING	<input type="checkbox"/> 5 GROUND WATER MONITORING
<input type="checkbox"/> 6 TANK TESTING	<input type="checkbox"/> 7 INTERSTITIAL MONITORING	<input checked="" type="checkbox"/> 91 NONE	<input type="checkbox"/> 95 UNKNOWN	<input type="checkbox"/> 99 OTHER

VI. TANK CLOSURE INFORMATION

ESTIMATED DATE LAST USED (MONTH/YR) JUN 1990	2 ESTIMATED QUANTITY OF SUBSTANCE REMAINING 1/4 FULL IV GALLONS	3 WAS TANK FILLED WITH INERT MATERIAL? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO
--	---	---

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME CATHERINE R. MAYER	<i>Cathie R. Mayer</i>	DATE
---	------------------------	------

LOCAL AGENCY USE ONLY

COUNTY #	JURISDICTION #	FACILITY ID #	TANK ID #
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
PERMIT NUMBER	PERMIT APPROVAL DATE	PERMIT EXPIRATION DATE	STATE SURCHARGE AMOUNT

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FORM B (1-90)



COMPLETE THIS FORM FOR EACH FACILITY SITE

MARK ONLY ONE ITEM	<input checked="" type="checkbox"/> 1. NEW PERMIT	<input type="checkbox"/> 3. RENEWAL PERMIT	<input type="checkbox"/> 5. CHANGE OF INFORMATION	<input type="checkbox"/> 7. PERMANENTLY CLOSED SITE
	<input type="checkbox"/> 2. INTERIM PERMIT	<input type="checkbox"/> 4. AMENDED PERMIT	<input type="checkbox"/> 6. TEMPORARY SITE CLOSURE	

I. FACILITY/SITE INFORMATION & ADDRESS - (MUST BE COMPLETED)

CITY/SITE WINDSOR SQUARE	CARE OF ADDRESS INFORMATION		
ADDRESS 700 1/2 WELLING BLVD.	NEAREST CROSS STREET		
CITY NAME SAN LEANDRO	STATE CA	ZIP CODE 94574	SITE PHONE # WITH AREA CODE 415-352-5422
✓ <input checked="" type="checkbox"/> INDIVIDUAL <input type="checkbox"/> CORPORATION <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> COUNTY-AGENCY <input type="checkbox"/> STATE-AGENCY <input type="checkbox"/> FEDERAL-AGENCY			
PT OF BUSINESS <input checked="" type="checkbox"/> 1. GAS STATION <input type="checkbox"/> 2. DISTRIBUTOR <input type="checkbox"/> 3. CASH <input type="checkbox"/> 4. PROCESSOR <input type="checkbox"/> 5. OTHER	✓ <input checked="" type="checkbox"/> INDIAN RESERVATION OR TRUST LANDS	7 4 OF TANKS AT SITE	E.P.A. ID. # CAC 000376000

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) JOHNNY LIN	PHONE # WITH AREA CODE 415-352-5422	DAYS: NAME (LAST, FIRST) MERLIN BOWEN	PHONE # WITH AREA CODE 415-568-1234
NIGHT: NAME (LAST, FIRST)	PHONE # WITH AREA CODE	NIGHT: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME JOHNNY LIN	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS P.O. BOX 4154	<input checked="" type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP
CITY NAME SAN LEANDRO	STATE CA	ZIP CODE 94574	PHONE # WITH AREA CODE 415-352-5422

III. TANK OWNER INFORMATION - (MUST BE COMPLETED)

NAME JOHNNY LIN	CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS P.O. BOX 4154	<input checked="" type="checkbox"/> INDIVIDUAL	<input type="checkbox"/> CORPORATION	<input type="checkbox"/> PARTNERSHIP
CITY NAME SAN LEANDRO	STATE CA	ZIP CODE 94574	PHONE # WITH AREA CODE 415-352-5422

IV. LEGAL NOTIFICATION AND BILLING ADDRESS: Legal notification and billing will be sent to the tank owner unless box I or II is checked.

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING:	<input type="checkbox"/> I	<input checked="" type="checkbox"/> II	<input type="checkbox"/> III
--	----------------------------	--	------------------------------

THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE) CATHRYN R. MAYER	DATE July 1, 1991
---	-----------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text"/> <input type="text"/>	JURISDICTION # <input type="text"/> <input type="text"/> <input type="text"/>	FACILITY ID # <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/> <input type="text"/>	# OF TANKS AT SITE <input type="text"/> <input type="text"/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPERVISOR-DISTRICT CODE - OPTIONAL	

THIS FORM MUST BE ACCOMPANIED BY AT LEAST (1) OR MORE PERMIT APPLICATION - FORM B, UNLESS THIS IS A CHANGE OF SITE INFORMATION ONLY.

UNDERGROUND STORAGE TANK CLOSURE PLAN/PERMIT

EPA I.D #
CAC 080516000Facility Name: WINDSOR SQUARE Address: 1900 LEWELLING STREET
Contact Person: JOHNNY LIN SAN LEANDRO, CA. 94579Phone No.: 415-352-5542Contractor: KERL'S CONSTRUCTION INC. License Type & No.: A, B, & HAZAddress: 753 PERALTA AVE., SAN LEANDRO, CA. 94572Contact Person: MERLIN BOWEN Phone No.: 415-562-1234Sampling to be performed by: E. G. C. Phone No.: 415-786-0243Laboratory services to be provided by: NATIONAL ENVIRONMENTAL TESTING INC.DQHS Certificate No.: 178 Phone No.: 707-526-7200Tank Hauler: ERICKSON EPA ID No.: CAD009466392Address: 255 PARR BLVD., RICHMOND, CA. 94801 Phone No.: 415-235-1395Destination of Tank(s): PARR BLVD., RICHMOND, CA.Method of inerting tank(s): INERTION BY CARBON DIOXIDE

Type or explosimeter or combustible gas meter to be provided: _____

Tanks to be removed:

	Size	Content	Material of Construction	Age	Sample Analysis Method
Tank 1	550 K.	WASTE OIL	STEEL	UNKNOWN	STEX SO 15-1100 8020
Tank 2					
Tank 3					
Tank 4					
Tank 5					
Piping					

APPENDIX B

NET

NATIONAL
ENVIRONMENTAL
TESTING, INC.

NET Pacific, Inc.
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Nick Giuntoli
Environmental Geotechnical
2495 Industrial Parkway W.
Hayward, CA 94545

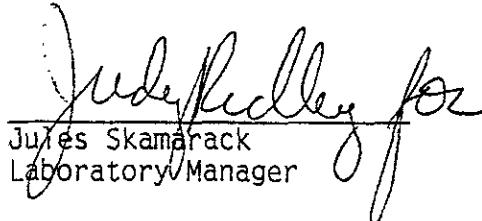
Date: 10-18-90
NET Client Acct. No: 362
NET Pacific Log No: 4048
Received: 09-27-90 0800

Client Reference Information

VCI-Windsor Square, Project: E-163-01

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:



Jules Skamarack
Laboratory Manager

Enclosure(s)



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-18-90
Page: 2

NET Pacific, Inc. Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
Oil & Grease(Total)	9071	50	4,600	mg/Kg
Oil & Grease(Non-Polar)	SM503D/E	100	4,000	mg/Kg
Cadmium	6010	5	2	mg/Kg
Chromium	6010	5	26	mg/Kg
Lead (EPA 7421)	7421	0.2	15	mg/Kg
Nickel	6010	5	28	mg/Kg
Zinc	6010	2	29	mg/Kg



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-18-90
Page: 3

NET Pacific, Inc Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
METHOD 8080				
DATE EXTRACTED			10-07-90	
DATE ANALYZED			10-10-90	
DILUTION FACTOR *			10	
POLYCHLORINATED BIPHENYLS			--	
Aroclor 1016		100	ND	ug/Kg
Aroclor 1221		500	ND	ug/Kg
Aroclor 1232		200	ND	ug/Kg
Aroclor 1242		100	ND	ug/Kg
Aroclor 1248		100	ND	ug/Kg
Aroclor 1254		50	ND	ug/Kg
Aroclor 1260		50	ND	ug/Kg
PETROLEUM HYDROCARBONS			--	
VOLATILE (SOIL)			--	
DILUTION FACTOR *			20	
DATE ANALYZED			10-01-90	
METHOD GC FID/5030			--	
as Gasoline		1	160	mg/Kg
METHOD 8020			--	
DILUTION FACTOR *			20	
DATE ANALYZED			10-01-90	
Benzene		2.5	440	ug/Kg
Ethylbenzene		2.5	1,400	ug/Kg
Toluene		2.5	3,200	ug/Kg
Xylenes, total		2.5	8,600	ug/Kg
PETROLEUM HYDROCARBONS			--	
EXTRACTABLE (SOIL)			--	
DILUTION FACTOR *			2300	
DATE EXTRACTED			09-27-90	
DATE ANALYZED			09-29-90	
METHOD GC FID/3550			--	
as Diesel		1	ND	mg/Kg
as Motor Oil		10	9,300	mg/Kg
as Creosote		10	ND	mg/kg



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-18-90
Page: 4

NET Pacific, Inc. Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
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METHOD 8240

DATE ANALYZED			10-02-90	
DILUTION FACTOR *			1	
Benzene	5	170	ug/Kg	
Acetone	10	150	ug/Kg	
Bromodichloromethane	5	ND	ug/Kg	
Bromoform	5	ND	ug/Kg	
Bromomethane	5	ND	ug/Kg	
2-Butanone	10	ND	ug/Kg	
Carbon disulfide	5	32	ug/Kg	
Carbon tetrachloride	5	ND	ug/Kg	
Chlorobenzene	5	ND	ug/Kg	
Chloroethane	5	ND	ug/Kg	
2-Chloroethyl Vinyl Ether	10	ND	ug/Kg	
Chloroform	5	ND	ug/Kg	
Chloromethane	5	ND	ug/Kg	
Dibromochloromethane	5	ND	ug/Kg	
1,2-Dichlorobenzene	5	ND	ug/Kg	
1,3-Dichlorobenzene	5	ND	ug/Kg	
1,4-Dichlorobenzene	5	ND	ug/Kg	
1,1-Dichloroethane	5	ND	ug/Kg	
1,2-Dichloroethane	5	ND	ug/Kg	
1,1-Dichloroethene	5	ND	ug/Kg	
trans-1,2-Dichloroethene	5	ND	ug/Kg	
1,2-Dichloropropane	5	ND	ug/Kg	
cis-1,3-Dichloropropene	5	ND	ug/Kg	
trans-1,3-Dichloropropene	5	ND	ug/Kg	
Ethylbenzene	5	900	ug/Kg	
2-Hexanone	10	ND	ug/Kg	
Methylene chloride	5	ND	ug/Kg	
4-Methyl-2-pentanone	10	ND	ug/Kg	
Styrene	5	ND	ug/Kg	
1,1,2,2-Tetrachloroethane	5	ND	ug/Kg	
Tetrachloroethene	5	210	ug/Kg	
Toluene	5	1,700	ug/Kg	
1,1,1-Trichloroethane	5	210	ug/Kg	
1,1,2-Trichloroethane	5	ND	ug/Kg	
Trichloroethene	5	ND	ug/Kg	
Trichlorofluoromethane	5	ND	ug/Kg	
Vinyl Acetate	10	ND	ug/Kg	
Vinyl chloride	5	ND	ug/Kg	
Xylenes, total	5	5,800	ug/Kg	
SURROGATE RESULTS		--		
Toluene-d8		112	% Rec.	
Bromofluorobenzene		119	% Rec.	



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-18-90
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NET Pacific, Inc. Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
1,2-Dichloroethane-d4			102	% Rec.



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-18-90
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NET Pacific, Inc

Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
METHOD 8270				
DATE EXTRACTED			10-12-90	
DATE ANALYZED			10-15-90	
DILUTION FACTOR *			5	
Acenaphthene	330	ND		ug/Kg
Acenaphthylene	330	ND		ug/Kg
Aldrin	1600	ND		ug/Kg
Anthracene	330	ND		ug/Kg
Benzidine	1600	ND		ug/Kg
Benzo(a)anthracene	330	ND		ug/Kg
Benzo(b)fluoranthene	330	ND		ug/Kg
Benzo(k)fluoranthene	330	ND		ug/Kg
Benzo(a)pyrene	330	ND		ug/Kg
Benzo(g,h,i)perylene	330	ND		ug/Kg
Benzoic Acid	1600	ND		ug/Kg
Benzyl Alcohol	660	ND		ug/Kg
Butyl benzyl phthalate	330	ND		ug/Kg
delta-BHC	1600	ND		ug/Kg
gamma-BHC	1600	ND		ug/Kg
bis(2-chloroethyl)ether	330	ND		ug/Kg
bis(2-chloroethoxy)methane	330	ND		ug/Kg
bis(2-chloroisopropyl)ethe	330	ND		ug/Kg
bis(2-ethylhexyl)phthalate	330	7,300		ug/Kg
4-Bromophenyl phenyl ether	330	ND		ug/Kg
4-Chloroanaline	660	ND		ug/Kg
2-Chloronaphthalene	330	ND		ug/Kg
4-Chlorophenyl phenyl ethe	330	ND		ug/Kg
Chrysene	330	ND		ug/Kg
4,4'-DDD	1600	ND		ug/Kg
4,4'-DDE	1600	ND		ug/Kg
4,4'-DDT	1600	ND		ug/Kg
Dibenzo(a,h)anthracene	330	ND		ug/Kg
Dibenzofuran	330	ND		ug/Kg
Di-n-butylphthalate	330	ND		ug/Kg
1,2-Dichlorobenzene	330	ND		ug/Kg
1,3-Dichlorobenzene	330	ND		ug/Kg
1,4-Dichlorobenzene	330	ND		ug/Kg
3,3'-Dichlorobenzidine	660	ND		ug/Kg
Dieldrin	1600	ND		ug/Kg
Diethylphthalate	330	ND		ug/Kg
Dimethyl phthalate	330	ND		ug/Kg
2,4-Dinitrotoluene	330	ND		ug/Kg
2,6-Dinitrotoluene	330	ND		ug/Kg
Di-n-octyl phthalate	330	ND		ug/Kg
Endrin aldehyde	1600	ND		ug/Kg



Client Acct: 362
Client Name: Environmental Geotechnical
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NET Pacific, Inc

Ref: VCI-Windsor Square, Project: E-163-01

SAMPLE DESCRIPTION: S-926-1 09-26-90
LAB Job No: (-63916)

Parameter	Method	Reporting Limit	Results	Units
Fluoranthene		330	ND	ug/Kg
Fluorene		330	ND	ug/Kg
Heptachlor		1600	ND	ug/Kg
Heptachlor epoxide		1600	ND	ug/Kg
Hexachlorobenzene		330	ND	ug/Kg
Hexachlorobutadiene		330	ND	ug/Kg
Hexachlorocyclopentadiene		330	ND	ug/Kg
Hexachloroethane		330	ND	ug/Kg
Indeno(1,2,3-cd)pyrene		330	ND	ug/Kg
Isophorone		330	ND	ug/Kg
2-Methylnaphthalene		330	20,000	ug/Kg
Naphthalene		330	12,000	ug/Kg
2-Nitroaniline		1600	ND	ug/Kg
3-Nitroaniline		1600	ND	ug/Kg
4-Nitroaniline		1600	ND	ug/Kg
Nitrobenzene		330	ND	ug/Kg
N-Nitroso-Di-N-propylamine		330	ND	ug/Kg
N-Nitrosodiphenylamine		330	ND	ug/Kg
Phenanthrene		330	2,400	ug/Kg
Pyrene		330	ND	ug/Kg
1,2,4-Trichlorobenzene		330	ND	ug/Kg
4-Chloro-3-methylphenol		660	ND	ug/Kg
2-Chlorophenol		330	ND	ug/Kg
2,4-Dichlorophenol		330	ND	ug/Kg
2,4-Dimethylphenol		330	ND	ug/Kg
2,4-Dinitrophenol		1600	ND	ug/Kg
4,6-Dinitro-2-methylphenol		330	ND	ug/Kg
2-Nitrophenol		330	ND	ug/Kg
4-Nitrophenol		1600	ND	ug/Kg
Pentachlorophenol		1600	ND	ug/Kg
Phenol		330	ND	ug/Kg
2,4,6-Trichlorophenol		330	ND	ug/Kg
2-methylphenol		330	ND	ug/Kg
4-methylphenol		330	ND	ug/Kg
2,4,5-Trichlorophenol		330	ND	ug/Kg
SURROGATE RESULTS		--		
Nitrobenzene-d5		66	% Rec.	
2-Fluorobiphenyl		86	% Rec.	
p-Terphenyl-d14		47	% Rec.	
Phenol-d5		52	% Rec.	
2-Fluorophenol		38	% Rec.	
2,4,6-Tribromophenol		61	% Rec.	

KEY TO ABBREVIATIONS and METHOD REFERENCES

- < : Less than; When appearing in results column indicates analyte not detected at the value following. This datum supersedes the listed Reporting Limit.
- * : Reporting Limits are a function of the dilution factor for any given sample. To obtain the actual reporting limits for this sample, multiply the stated Reporting Limits by the dilution factor (but do not multiply reported values).
- ICVS : Initial Calibration Verification Standard (External Standard).
- mean : Average; sum of measurements divided by number of measurements.
- mg/Kg (ppm) : Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
- mg/L : Concentration in units of milligrams of analyte per liter of sample.
- mL/L/hr : Milliliters per liter per hour.
- MPN/100 mL : Most probable number of bacteria per one hundred milliliters of sample.
- N/A : Not applicable.
- NA : Not analyzed.
- ND : Not detected; the analyte concentration is less than applicable listed reporting limit.
- NTU : Nephelometric turbidity units.
- RPD : Relative percent difference, $100 \frac{[Value\ 1 - Value\ 2]}{mean\ value}$.
- SNA : Standard not available.
- ug/Kg (ppb) : Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
- ug/L : Concentration in units of micrograms of analyte per liter of sample.
- urthos/cm : Micrarthos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986.

SM: see "Standard Methods for the Examination of Water & Wastewater", 16th Edition, APHA, 1985.



Client Acct: 362
Client Name: Environmental Geotechnical
NET Log No: 4048

Date: 10-17-90
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NET Pacific Off The Windsor Square, Project: E-163-01

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Gasoline	1	mg/Kg	108	ND	73	77	4.6
Benzene	2.5	ug/Kg	98	ND	84	79	6.1
Toluene	2.5	ug/Kg	103	ND	90	87	3.1

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Cadmium	5	mg/Kg	110	ND	93	97	4.4
Chromium	5	mg/Kg	105	ND	104	108	3.1
Lead	0.2	mg/Kg	98	ND	87	92	4.0
Nickel	5	mg/Kg	106	ND	102	107	3.8
Zinc	5	mg/Kg	106	ND	101	107	4.9

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Acenaphthene	330	ug/Kg	102	ND	75	104	32
1,4-Dichlorobenzene	330	ug/Kg	113	ND	39	72	60
2,4-Dinitrotoluene	330	ug/Kg	138	ND	27	32	17
Pyrene	330	ug/Kg	125	ND	166	253	41
1,2,4-Trichlorobenzene	330	ug/Kg	100	ND	60	89	38
2-Chlorophenol	330	ug/Kg	109	ND	37	72	64
4-Nitrophenol	1600	ug/Kg	92	ND	30	29	3
Phenol	330	ug/Kg	110	ND	45	75	50

COMMENT: Blank Results were ND on other analytes tested.

NETClient Acct: 362
Client Name: Environmental Geotechnical
Log No: 4048Date: 10-17-90
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Ref: PCT-1 Windsor Square, Project: E-163-01

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Oil & Grease(Total)	50	mg/Kg	99	ND	92	94	2.7
Oil & Grease(Non-Polar)	100	mg/Kg	99	ND	N/A	N/A	N/A

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
1,1-Dichloroethane	5	ug/Kg	108	ND	94	93	1.1
Trichloroethylene	5	ug/Kg	100	ND	77	77	<1
Benzene	5	ug/Kg	99	ND	76	74	2.7
Toluene	5	ug/Kg	102	ND	89	92	3.3
Chlorobenzene	5	ug/Kg	97	ND	96	98	2.1

COMMENT: Blank Results were ND on other analytes tested.

QUALITY CONTROL DATA

Parameter	Reporting Limits	Units	Cal Verf Stand % Recovery	Blank Data	Spike % Recovery	Duplicate Spike % Recovery	RPD
Diesel	1	mg/Kg	97	ND	66	71	7.3
Motor Oil	10	mg/Kg	64	ND	N/A	N/A	N/A

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CHAIN OF CUSTODY RECORD

PROJ. NO.		PROJECT NAME		CHAIN OF CUSTODY RECORD													
E-163-01		VCI- Dee Windsor Square		NO. OF CONTAINERS	ANALYSIS						TURNAROUND TIME						
SAMPLERS (signature)		<i>M. Giuntoli</i> (Giuntoli)			TPH-D		DDE-LUET		PCP-ZN-NI		PNA-CR-CB		() 24-48 HOURS				
STA. NO	DATE	TIME	EDM	CRAS	STATION LOCATION												
5-926-1	9/26/90		X		soil												
					3	X	X	X	X	X	X		(X) 1 WEEK				
														() 2 WEEKS			
														4048			
															→ Hold on this analysis pending further instructions.		
															custody seal intact by 9/27 custody seal 9/26/90 @ 19:00		
Distinguished by: (Signature)				Date / Time	Received by: (Signature)	REMARKS: Hold 2 soil tubes for Cd, Cr, Pb, Ni, Zn, PCP, PNA, PCB and Creosote pending further instructions.											
<i>M. Giuntoli</i>				9/26/90 4:25P	<i>Jeff Arnold</i>												
Distinguished by: (Signature)				Date / Time	Received by: (Signature)												
<i>Jeff Arnold</i>				9/26/90													
Distinguished by: (Signature)				Date / Time	Received for Laboratory by: (Signature)												
				9/27/90 0700	<i>Sample</i>												