

REPORT ID# 261 paf-10-27-08

UNDERGROUND STORAGE TANK REMOVAL

8900 Earhart Road Oakland, California

Prepared for:

Port of Oakland

530 Water Street Oakland, California 94607

December 2003

Project No. 8207.005

SL NOAK UST 12/1/03 12697

Geomatrix Consultants



December 23, 2003

Mr. Keith Matthews Hazardous Materials Inspector City of Oakland Fire Service Agency Office of Emergency Services 1605 Martin Luther King, Jr. Way Oakland, CA 94612

RE: Request for No. Further Action / Closure

UST Site LF-17 and LF-18 - 8900 Earhart Road

Building L311, North Field, Oakland International Airport

Oakland, CA

Dear Mr. Matthews:

Please find enclosed for your review is our report prepared by Geomatrix Consultants, Inc. that documents excavation and removal of the subject underground storage tanks (USTs) LF-17 and LF-18 at Building L311 located at 8900 Earhart Road, North Field, Oakland International Airport. These two USTs were removed on September 22, 2003 with your oversight and approval.

The former gasoline and diesel USTs were removed in accordance with City of Oakland Fire Service Agency (OFSA) and San Francisco Bay Area Regional Water Quality Control Board (RWQCB) requirements and guidelines. The tanks were visually inspected after removal. Holes were not observed in either tank and the exteriors were intact. Confirmation soil and groundwater samples were collected and analyzed as required by OFSA and the RWQCB.

Subject to your review, the Port respectfully requests a letter to confirm no further action is necessary for these former USTs and the site is closed. Thank you in advance for your assistance. If you have any questions, please contact me at (510) 627-1134.

Sincerely

Jeffrey L. Rubin, CPSS, REA

Port Associate Environmental Scientist Environmental Health and Safety Compliance

Enclosure:

noted

Cc (w/o encl.):

Ted Mankowski Dale Stone Michael McMillan

Jeff Jones

Roberta Schoenholz

2101 Webster Street 12th Floor Cakland, CA 94612 (510) 663-4100 • FAX (510) 663-4141



December 19, 2003 Project 8207.005

Mr. Jeff Rubin Port of Oakland 530 Water Street, Second Floor Oakland, California 94607

Subject:

Underground Storage Tank Removal

8900 Earhart Road Oakland, California

Dear Mr. Rubin:

Geomatrix Consultants, Inc. (Geomatrix), has prepared this report on behalf of the Port of Oakland for documenting underground storage tank removal activities performed at the 8900 Earhart Road Site. This work was performed in accordance with Geomatrix's August 15, 2003 Scope of Work and Cost Estimate – Task Order #5.

Geomatrix is pleased to be of continuing service to the Port of Oakland. Please call either of the undersigned if you have questions.

Sincerely yours,

GEOMATRIX CONSULTANTS, INC.

Shakeel Jogia Staff Engineer Jennifer L. Patterson, P.E. Senior Engineer

sj/jlp/smm

cc:

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Susan M. Gallardo, Geomatrix Consultants, Inc.



UNDERGROUND STORAGE TANK REMOVAL

8900 Earhart Road Oakland, California

Prepared for:

Port of Oakland

530 Water Street Oakland, California 94607

Prepared by:

Geomatrix Consultants, Inc.

2101 Webster Street, 12th Floor Oakland, California 94612

December 2003

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Geomatrix Consultants



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UNDERGROUND STORAGE TANK REMOVAL

8900 Earhart Road Oakland, California

1.0 INTRODUCTION

This report describes underground storage tank (UST) removal activities conducted at a Port of Oakland (Port) facility located at 8900 Earhart Road in Oakland, California (Figure 1). One 1,000-gallon capacity diesel UST (Tank 1) and one 2,000-gallon capacity unleaded gasoline UST (Tank 2) were removed by Dillard Environmental Services Company (Dillard) of Byron, California, a California-licensed contractor under contract to the Port. Geomatrix Consultants, Inc. (Geomatrix), observed tank and piping removal, excavation, and backfilling activities and collected soil and groundwater samples for chemical analysis. UST removal and the associated soil and groundwater sampling activities were performed under the oversight of Mr. Keith Matthews of the Oakland Fire Services Agency (OFSA).

Tank removal, soil and groundwater sampling, and chemical analytical procedures were performed in accordance with applicable guidelines contained in the August 1990 "Tri-Regional Board Staff Recommendations For Preliminary Evaluation and Investigation of Underground Tank Sites" (Tri-Regional), unless otherwise directed by the OFSA. UST removal, excavation, and backfilling activities, soil and groundwater sampling, and laboratory analytical results are described below.

2.0 SITE CONDITIONS

The site is located at 8900 Earhart Road in the City of Oakland, located in Alameda County, California. The USTs were installed at a maintenance/refueling facility near the building shown on Figure 2 (both USTs were located within one excavation). According to Mr. Michael McMillan of the Port, Tanks 1 and 2 originally were installed in 1986 and contained diesel and regular unleaded gasoline, respectively. Both tanks were upgraded in 1998.

A refueling station was located adjacent to the UST area. The refueling station consisted of gasoline and diesel fuel dispensers, both of which had previously been decommissioned and taken off-site. The fuel dispensers were connected to the USTs by galvanized steel pipe enclosed in 4-inch diameter polyvinyl chloride (PVC) pipe, installed approximately 1.5 feet below ground surface (bgs). The diesel fuel dispenser was located approximately 9 feet south



of the UST excavation area, and the gasoline fuel dispenser was located approximately 6 feet south of the UST excavation. Dimensions of the refueling station area are approximately 21 feet long and 24 feet wide. The former UST locations and refueling station are shown on Figure 2.

3.0 UNDERGROUND STORAGE TANK PIPING REMOVAL

Prior to UST removal activities, Geomatrix obtained a removal permit from the OFSA (Tank Permit Number 2003-045) for the Port. A copy of the permit issued by the OFSA is included in Appendix A. Dillard performed UST removal and excavation activities September 22 through 24, 2003. A Geomatrix field engineer observed removal of the USTs and piping and collected excavation and soil stockpile samples during the tank removal activities on September 22, 24, and 30, 2003. The soil samples were submitted for chemical analysis. UST stabilization and removal, soil and groundwater sampling, and waste disposal activities are discussed in the following sections.

3.1 UST STABILIZATION AND REMOVAL

Fuel dispensers, concrete, and soil overlying the USTs were removed to access and prepare the USTs for removal. The top of Tank 1 was encountered at approximately 3 feet bgs. The top of Tank 2 was encountered at approximately 2 feet bgs. Backfill material surrounding the USTs consisted of 0.5-inch to 1-inch pea gravel. Native soil outside the excavation backfill consisted of clayey sand and sandy lean clay. Excavated soil was stockpiled on plastic sheeting at the site. Stained soil was not observed in the excavation prior to UST removal.

After rinsing, Dillard inserted approximately 50 and 100 pounds of dry ice into Tank 1 and Tank 2, respectively, to facilitate evacuation of oxygen and potentially explosive vapors. Immediately prior to removal of the USTs, Dillard measured explosive vapor levels through the fill-pipe opening in the top of the USTs. The final vapor readings indicated that a non-explosive atmosphere (less than 10% oxygen and less than 10% of the lower explosive limit) existed inside the tanks. Mr. Matthews approved the readings and removal of the USTs.

A crane was used to lift the tanks from the excavation. The tanks were lowered onto a truck bed for visual examination by the Geomatrix field engineer and Mr. Matthews. Tank 1 measured 5.3 feet in diameter and 7 feet in length, and Tank 2 measured 5.6 feet in diameter and 13.1 feet in length. Both tanks were composed of steel composite and were coated with fiberglass for cathodic protection. Holes were not observed in either tank, although slight

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damage to each tank's fiberglass coating was observed. The damage reportedly occurred during excavation of overburden soil.

The average dimensions of the cut concrete were approximately 42 feet long and 24 feet wide. The UST excavation was rectangular in shape, with an average length and width of approximately 21 and 24 feet, respectively. Depth to groundwater in a portion of the excavation following UST removal was approximately 5 feet bgs. Soil beneath the tanks where groundwater was not present did not appear to be affected by hydrocarbons. Light product was observed on the groundwater surface. Affected groundwater was pumped into 55-gallon drums and disposed of off-site.

3.2 PIPING REMOVAL AND OVEREXCAVATION OF REFUELING STATION AREA

In addition to UST removal, Dillard removed two lengths of galvanized steel delivery pipe and the 4-inch diameter PVC pipe that enclosed it. The pipe was installed approximately 1.5 feet bgs between the USTs and the adjacent refueling station. There were no holes along the length of either delivery pipe.

Following pipe removal, the refueling station area was excavated to 5 feet bgs and confirmation soil samples were collected for chemical analysis. Analytical results of the confirmation samples indicated no further excavation was necessary. The refueling station over-excavation area is shown on Figure 2.

3.3 SOIL AND GROUNDWATER SAMPLING

Geomatrix collected samples from the site on September 22, 24, and 30, 2003. Excavation and refueling station sample locations are shown on Figure 2.

- On September 22, Geomatrix collected three soil samples from the sidewalls of the excavation and one grab groundwater sample from the pooled groundwater in the excavation as directed by Mr. Matthews. One soil sample (T1-N-092203-1) was collected at the soil/groundwater interface (approximately 5 feet bgs) near the north side of the former Tank 1. Two soil samples, T2-N-092203-1, and T2-S-092203-1, were collected at the soil/groundwater interface (approximately 5 feet bgs) near the north and south sides, respectively, of the former Tank 2. The grab groundwater sample (GW-092203-1) was collected from pooled groundwater beneath the former Tank 1 location. Under the direction of Mr. Matthews, groundwater was not purged prior to sample collection.
- On September 24, Geomatrix collected three soil samples from the refueling station area located adjacent to the UST excavation, as directed by Mr. Matthews. Soil



sample pipe1-092403-1 was collected from beneath where the 4-inch diameter PVC delivery pipe ran between Tank 1 and 2 and the adjacent refueling station. Soil sample dies-092403-1 was collected at the approximate location of the diesel fuel dispenser, and sample gaso-092403-1 was collected at the approximate location of the gasoline fuel dispenser. The samples were collected approximately 1 foot below the backfill/native soil interface, at approximately 2.5 feet bgs.

• On September 30, after over-excavation of the refueling station area, Geomatrix collected two post-excavation confirmation soil samples from the refueling station area located adjacent to the UST excavation. Soil sample pipe1-093003-2 was collected in the refueling station excavation beneath where the 4-inch PVC delivery pipe had previously existed. Soil sample dies-093003-1 was collected in the refueling station excavation beneath the approximate location of the diesel fuel dispenser. The samples were collected from the bottom of the refueling station excavation, at approximately 5 feet bgs.

Soil samples were collected in clean, 6-inch-long, 2-inch-diameter brass tubes. The ends of the tubes were sealed with Teflon[®] sheets and plastic end-caps and were secured with silicon tape. The grab groundwater sample was collected by using a new, disposable bailer. The sample was decanted into laboratory-supplied bottles. All samples were labeled and stored in an ice-cooled chest until delivery under Geomatrix chain-of-custody procedures to Curtis & Tompkins, Ltd. (Curtis & Tompkins), of Berkeley, California, a California-certified analytical laboratory. Chain-of-custody documents are included in Appendix B.

3.4 RINSATE, UST, GROUNDWATER, AND SOIL DISPOSAL

Dillard, a state-licensed liquid waste transporter, transported the tanks to Ecology Control Industries (ECI) in Richmond, California. Tank rinsate, pumped groundwater, and delivery piping was transported to Clean Harbors, in Buttonwillow, California. Soil and crushed concrete was transported to Vasco Road Landfill in Livermore, California, a Class 2 disposal facility. Copies of the Uniform Hazardous Waste Manifest and certificate of destruction are included in Appendix C.

4.0 ANALYTICAL METHODS AND RESULTS

Soil and groundwater samples were analyzed according to Tri-Regional and OFSA guidelines for total petroleum hydrocarbons quantified as gasoline (TPHg) and as diesel (TPHd) using U.S. Environmental Protection Agency (EPA) Method 8015B; benzene, toluene, ethylbenzene, and total xylenes (collectively BTEX) and methyl tertiary butyl ether (MTBE) using EPA Method 8260B; and lead using EPA Method 6010B. Silica gel preparation (EPA Method 3630C) was performed on grab groundwater sample GW-092203-1 prior to TPHd analysis.



The grab groundwater sample was filtered by Curtis and Tompkins prior to lead analysis. The analytical results for the soil and grab groundwater samples are presented in Tables 1 and 2, respectively. Analytical data sheets are included in Appendix B.

4.1 EXCAVATION SOIL SAMPLE RESULTS

The following section summarizes the analytical results for excavation and stockpile soil samples. Analytical data for the soil samples are presented in Table 1.

- Lead concentrations were low in each of the soil samples and do not suggest an impact from the former USTs.
- MTBE was detected at concentrations up to 0.330 milligrams per kilogram (mg/kg) in soil samples from the UST excavation area and concentrations up to 0.017 mg/kg in soil samples from the refueling station area. After overexcavation of the refueling station area, MTBE was detected at a concentration of 0.0053 mg/kg in the deeper soil sample (5 feet bgs) collected from beneath the approximate location of the diesel fuel dispenser.
- TPHg was not detected in the soil samples from the UST excavation. TPHg was detected at concentrations of 1.3 and 29 mg/kg, respectively, in soil samples pipel-092403-1 and dies-092403-1, collected from the refueling station area. Based on these results, the refueling station area was overexcavated, and additional sampling was performed. After overexcavation of the refueling station area, TPHg was detected in only one of the confirmation samples (pipe1-093003-2) at 1.3 mg/kg.
- TPHd was detected at concentrations of 90, 18, and 8.2 mg/kg, respectively, in soil samples TI-N-092203-1, T2-N-092203-1, and T2-S-092203-1, collected from the UST excavation. TPHd was detected at concentrations of 200 mg/kg, and 2,600 mg/kg, respectively, in samples pipe1-092403-1, and dies-092403-1, collected from the refueling station area. Based on these results, the refueling station area was overexcavated, and additional sampling was performed. After overexcavation of the refueling station area, TPHd was detected at concentrations of 34 mg/kg, and 9.6 mg/kg, respectively, in the deeper confirmation soil samples (dies-093003-2 and pipe1-093003-2).
- BTEX were not detected in soil samples from the UST excavation. BTEX was detected at concentrations of 0.0083 mg/kg (benzene), 0.053 mg/kg (toluene), 0.0051 mg/kg (ethylbenzene), and 0.017 mg/kg (total xylenes) in sample dies-092403-1, and at 0.016 mg/kg (total xylenes) in sample pipe1-092403-1, collected from the refueling station area. After excavation of the refueling station area, BTEX were detected at concentrations of 0.038 mg/kg (benzene) and 0.0053 mg/kg (total xylenes) in sample dies-093003-2, and at concentrations of 0.036 mg/kg (benzene), 0.0052 (ethylbenzene), and 0.051 (total xylenes) in sample pipe1-093003-2, collected from the refueling station area.



4.2 GRAB GROUNDWATER SAMPLE RESULTS

TPHg and TPHd were detected in the grab groundwater sample (GW-060503) at concentrations of 1,100 and 54,000 micrograms per liter (μ g/L), respectively. The reported concentration of diesel in the groundwater sample is well above its solubility of 2,000 to 6,000 μ g/L. Therefore, the reported concentration likely is attributed to petroleum adhered to sediment or product in the water sample, and is not the dissolved concentration of TPHd in water. BTEX were detected in the groundwater sample at concentrations ranging from 7.8 (benzene) to 75 (toluene) μ g/L. MTBE was detected at a concentration of 390 μ g/L. Lead was not detected in the groundwater sample (<3.0 μ g/L).

5.0 EXCAVATION BACKFILLING

Backfilling and compaction of the UST and refueling station area excavations were performed by Dillard on September 25, September 29, and September 30, 2003. Geomatrix provided earthwork recommendations for backfilling to the Port in a letter dated September 23, 2003. During the backfilling, Geomatrix or our subcontractor, Construction Materials Testing, Inc., of Concord, California, observed the placement methods and tested the compaction of the backfill material. Prior to backfilling the excavation, samples of the backfill were collected by Geomatrix and submitted to Curtis & Tompkins for chemical analysis and Cooper Testing Labs, Inc., of Mountain View, California, for geotechnical analysis. The laboratory data sheet for the chemical analysis is included in Appendix A, and laboratory data sheet for the geotechnical analyses is included in Appendix D.

The total depth of the UST excavation was approximately 8 feet bgs. Groundwater was present in the UST excavation at the time of backfilling at approximately 5 feet bgs. Therefore, approximately 3 feet of 1½-inch open-graded, crushed rock was placed through the water to above the water level, approximately 5 feet bgs. Following placement of the crushed rock, Dillard compacted the crushed rock using a vibratory compactor plate backhoe attachment. A non-woven geotextile filter fabric (geotextile) was then placed over the compacted crushed rock.

The total depth of the refueling station area over-excavation was approximately 5 feet bgs. No groundwater was encountered in the refueling station area excavation.

Massachusetts Department of Environmental Protection (MADEP), June 2001, "Implementation of MADEP VPH/EPH Approach, Final Draft"



Imported fill was placed in both excavations in approximately 8-inch lifts and compacted using a vibratory compactor plate backhoe attachment. Approximately 4 to 5 feet of imported fill was used to backfill the UST excavation and approximately 3 feet of imported fill was used to backfill the refueling station excavation. After each lift was placed, density tests were performed according to American Society of Testing Materials (ASTM) Test Methods D 2922 (Density of Soil and Rock in Place by Nuclear Methods) and D3017 (Water Content of Soil and Rock in Place by Nuclear Methods). Our observations and the test results indicated that the overall compaction of the fill was generally above 90 percent of the maximum dry density determined in the laboratory by ASTM test method D 1557 (Moisture-Density Relations of Soils and Soil-Aggregate Mixtures Using 10-lb Rammer and 18-in. Drop). It is our opinion that the backfill and compaction was accomplished in general accordance with the project recommendations. The surface of the backfilled excavation will be covered with asphalt.

6.0 SUMMARY

A summary of the UST removal activities is presented below.

- One 1,000-gallon diesel UST and one 2000-gallon unleaded gasoline UST were removed from the 8900 Earhart Road site in Oakland, California, on September 22, 2003. The tanks were removed under the supervision of Mr. Keith Matthews of the OFSA. Once the USTs were removed, they were visually inspected. The tank exteriors were intact and did not appear to contain holes.
- Staining was not visible in the UST excavation sidewalls, and a hydrocarbon odor was not observed.
- Groundwater was encountered at a depth of 5 feet bgs, and slight product was observed on the groundwater surface within the excavation. Product-affected groundwater was pumped from excavation prior to backfilling.
- Three soil samples were collected from the UST excavation, as directed by the OFSA. TPHd, MTBE, and lead were detected in the three soil samples. TPHg and BTEX constituents were not detected in the three soil samples.
- Three soil samples were collected from the refueling station area, as directed by the OFSA. TPHg, TPHd, MTBE, and lead were detected in two of the three soil samples, and BTEX constituents were detected in one of the three soil samples. Based on these results, the refueling station area was excavated, and two additional samples were collected. After excavation of the refueling station area, low concentrations of TPHg, TPHd, MTBE, lead, and BTEX constituents were detected in soil samples. Additional excavation was not deemed necessary.



- One grab groundwater sample was collected from the excavation, as directed by the OFSA. TPHg, TPHd, BTEX constituents, and MTBE were detected in the sample.
- A total of approximately 130 cubic yards of soil and pea gravel were removed from around the USTs and the excavation bottom. The stockpiled soil was disposed of off site at Vasco Road Landfill in Livermore, California, a Class 2 disposal facility.



Tables

TABLE 1

SOIL SAMPLE ANALYTICAL RESULTS¹

8900 Earhart Road Oakland, California

Concentrations in milligrams per kilograms (mg/kg)

			Sample			(ts Detected	4		
Sample ID ²	Sample Location ²	Sample Date	Depth (ft bgs) ³	TPHg	ТРНа	Benzene	Toluene	Ethyl- benzene	Total Xylenes	МТВЕ	Lead
Excavation Sample	·s .				· · · · · · · · · · · · · · · · · · ·						
TI-N-092203-1	North of Tank 1	9/22/03	5	<1.15	90 ⁶ J	≤0.005	< 0.005	<0.005	< 0.005	0.110	4.5
T2-N-092203-1	North of Tank 2	9/22/03	5	<1.0	18 ⁶ J	< 0.0049	<0.0049	<0.0049	< 0.0049	0.097	4.3
T2-S-092203-1	South of Tank 2	9/22/03	5	<1.0	8.2 ⁶ J	< 0.005	<0.005	<0.005	< 0.005	0.330	4.4
Refueling Station A	Refueling Station Area Samples										
pipe1-092403-1	Fuel delivery underground	9/24/03	2.5	1,3 ⁶ J	200 ⁷ J	<0.0047	< 0.0047	< 0.0047	< 0.0047	0.016	9.7
I	piping area	0.00.410.0		,	~						
dies-092403-1	Diesel fuel dispenser area	9/24/03	2.5	29 ⁶ J	2600 ⁷ J	0.0083 J	0.053 J	0.0051J	0.0093 J	0.017 J	6.5
gaso-092403-1	Gasoline dispenser area	9/24/03	2.5	<1.1	<().99	< 0.0048	<0.0048	<0.0048	<0.0048	<0.0048	3.2
dies-093003-2	Post-excavation diesel fuel	9/30/03	3.0	<1.1	34 ⁶ J	0.038	<0.005	<0.005	<0.005	0.0053	5.2
	dispenser area										
pipe1-093003-2	Post-excavation gasoline	9/30/03	3.0	1,3	9.6 ⁶ J	0.036	<0.0045	0.0052	0.051	<0.0045	4.3
Ĺ	dispenser area										

Notes:

Samples collected by Geomatrix Consultants, Inc. (Geomatrix), and analyzed by Curtis & Tompkins, Ltd., of Berkeley, California, for total petroleum hydrocarbons quantified as gasoline and as diesel using EPA Method 8015B; benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether using EPA Method 8260B; and lead using EPA Method 6010B. A silica gel preparation (EPA Method 3630C) was performed on soil samples prior to analysis of TPHd.

² Sample locations shown on Figure 2.

³ ft bgs = feet below ground surface

⁴ TPHg = total petroleum hydrocarbons quantified as gasoline TPHd = total petroleum hydrocarbons quantified as diesel MTBE = methyl teriary butyl ether

⁵ "<" indicates analyte was not detected at or above the laboratory reporting limit shown.

⁶ Laboratory indicated that heavier hydrocarbons contributed to quantitation and the chromatographic pattern did not match the laboratory standard. The result is considered estimated (J flagged) and may be biased high.

⁷ Laboratory indicated that lighter hydrocarbons contributed to quantitation. The result is consdered estimated (J flagged) and maybe biased high.



TABLE 2

GROUNDWATER SAMPLE ANALYTICAL RESULTS¹

8900 Earhart Road Oakland, California

Concentrations in micrograms per liter (µg/l)

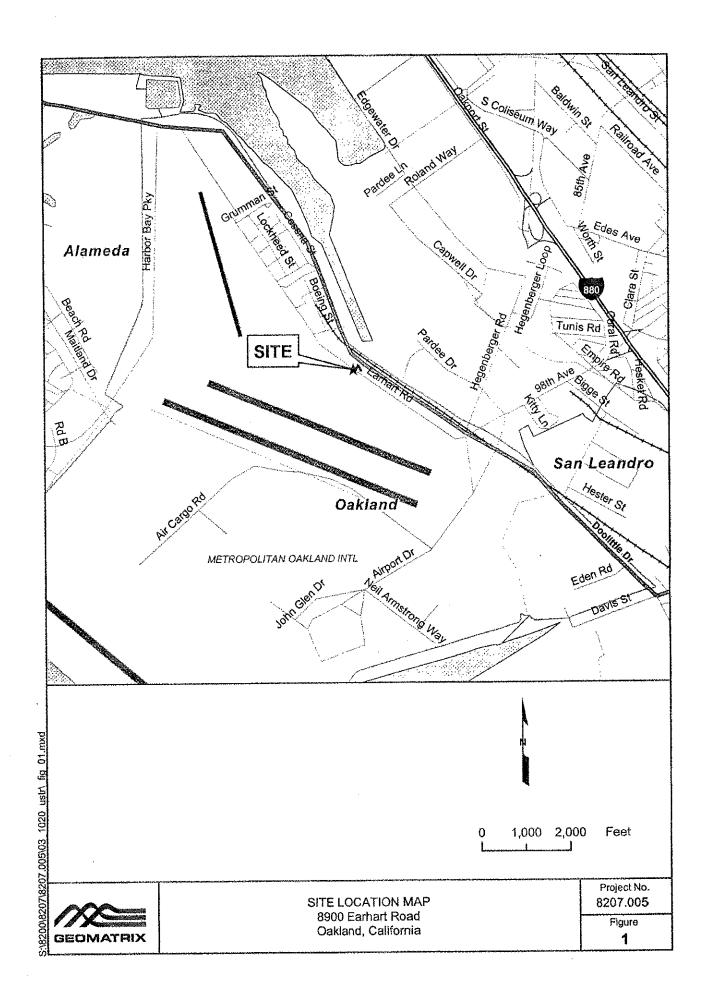
			Constituents Detected ²						
						Ethyl-	Total		
Sample ID	Sample Date	TPHg	TPHd	Benzene	Toluene	benzene	Xylenes	MTBE	Lead
GW-092203-1	9/22/03	1100 ³ J	54,000	7.8	75	7.9	66	390	<3.0 ⁴

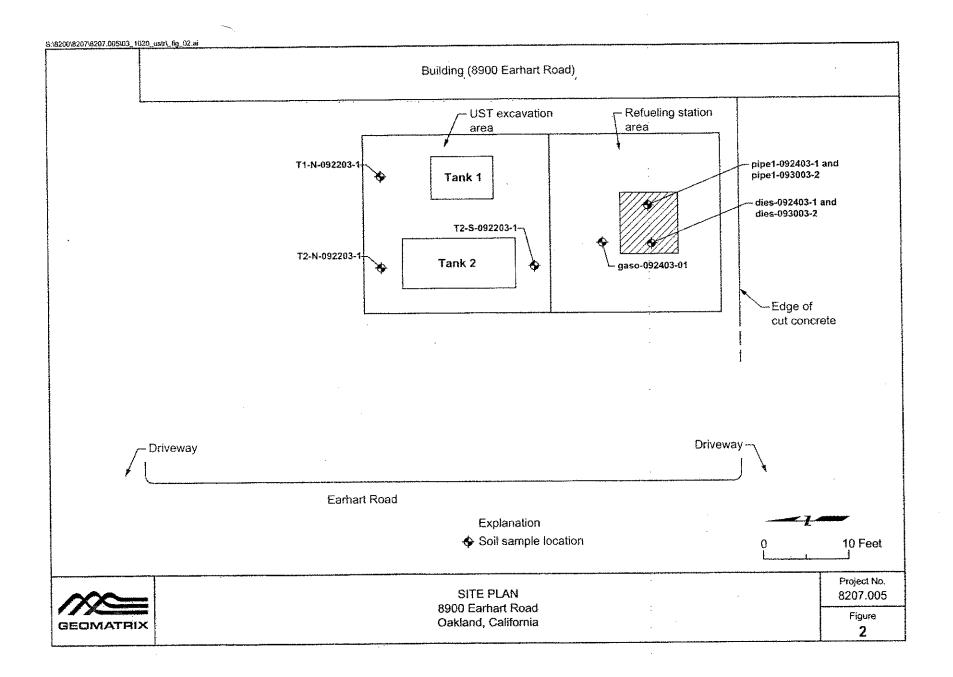
Notes:

- Samples collected by Geomatrix Consultants, Inc. (Geomatrix), and analyzed by Curtis & Tompkins, Lid., of Berkeley, California, for total petroleum hydrocarbons quantified as gasoline and diesel using EPA Method 8015B; benzene, toluene, ethylbenzene, total xylenes, and methyl tertiary butyl ether using EPA Method 8260B; and lead using EPA Method 6010B. A silica gel preparation (EPA Method 3630C) was performed solely on the grab groundwater sample prior to analysis of TPHd. Lead samples were filtered by Curftis and Tompkins prior to analysis.
- ² TPHg = total petroleum hydrocarbons quantified as gasoline TPHd = total petroleum hydrocarbons quantified as diesel MTBE = methyl teritiary butyl ether
- ³ Laboratory indicated that heavier hydrocarbons contributed to quantitation. The result is consdered estimated (J flagged) and maybe biased high.
- 4 "<" indicates analyte was not detected at or above the laboratory reporting limit shown.



Figures







Appendix A Underground Storage Tank Removal Permit

City Of Oakland FIRE PREVENTION BUREAU

Permit To Excavate And Install, Repair, Or Remove Inflammable Liquid Tanks



250 Frank Ogawa Plaza, Ste. 3341 Oakland California 94612-2032 510-238-3851

Oakland, California September 3, 2003

Tank Permit Number:

2003 - 045

Permission Is Hereby Granted To: Remove - Underground Gasoline & Diesel Tank And Exc	cavate Commencing:	Feet Inside:	Property		Line.
On The:	Present Storage:				n in the control of t
Site Address: 8900 Earhart Road	i iesent proruger				
Owner: Port of Oakland	Address: 530 Water St	<u>.</u> .		Phone:	627-1134
Applicant: Geomatrix Consultants, Inc.	Address: 2101 Webste	er St., 12th floo	or, Oakland, S	94612 Phone:	663-4100
Dimensions Of Street (sidewalk) Surface To Be Disturbed :	X No. O	f Tanks 2	Capacity	1,000 & 2,000	Gallons, Each
Remarks		22.11	O Mha Naiffe	of D. The City Authorities	Vhen Installing,
This Permit Is Granted in Accordance With Existing City Ordinances. Owner I Removing Or Rep	1964 1 1964 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1				
CERTIFICATE OF TA	ANK AND EQUII	PMENT I	NSPEC	TION	
	Type Of Inspe	ction:			
	•	Inspected A	and Passed ()n:	
	UST/AST Insta	llations/modif	ications:	Ву:	<u> </u>
Approved:	Pressure Test			Dat	e:
Fire Marshal	Primary Piping Tes			Dat	e:
Inspection Fee Paid: \$ 650.00		s or			
Received By: M McCarthy ck # 11051 Rec # 863409	Secondary Containment &	Sump Testu Inspected		Dat	e:
	Fina	il: Inspected	U	Dat	e:
Before Covering Tanks, Above Certification Must	Be Signed When Ready For In	spection Notify 1	ire Preventi	on Bureau 238-38	51

THIS PERMIT MUST BE LEFT ON THE WORK SITE AS AUTHORITY THEREFORE

Distribution: White - Fire Prevention Bureau, Yellow - Contractor, Pink - Electrical Inspection

OAKLAND FIRE DEPARTMENT, OES UNDERGROUND STORAGE TANK CEOSURE/REMOVAL FIELD INSPECTION REPORT

Site Address: 8900	Es	rhs	1.1	12	d	Name of Facility: Air Port Maintenance to	
Inspector:	27/15	700	- Secondario			-Contact on site: Mike Mr. Millin 677-	140
Date and Time of Arrival:	100		77	Sex	403	Contractor/Consultant: Genmo frix	
Date and Third of Third	1000	720					NT/A
General Requireme	nts		Yes	No	N/A	Ciclician residence	N/A
Approved closure plan on site.			/			Site Safety Plan properly signed.	ļ
Changes to approved plan noted.	50		ĺ		1	40B:C fire extinguisher on site	-
Residuals properly stored/transport		- -	1			"No Smoking" signs posted.	·
Receipt for adequate dry ice noted.		" And 1	1		-	Gas detector challenged by inspector.	
Tank Observations	T #1	T #2	T	#3	T #4	Tank Observations T #1 T #2 T #3	T #4
Tank Capacity (gallons)	IK	21	- -			Obvious corrosion?	· · · · · · · · · · · · · · · · · · ·
Material last stored	Drock	Ga				Obvious odors from tank?	
Dry ice used (pounds)	50	100)			Seams intact?	
Combustible gas concentration as	%LEL. (N	ote time	& sar	npling	point)	Tank bed backfill material	
(1)	6	10				Obvious discoloration?	
(2)						Obvious odors ex tank bed?	
(3)					,	Water in excavation? Sheen/product on water?	
Oxygen concentration as % volum	io. (Note	time &s	amplir	ng poin	t.)	Tank tagged by transporter?	
(1)	0			*		Tank wrapped for transport?	
(2)	<u> </u>					Tank plugged w/ vent cap?	<u></u>
(3)			<u> </u>			Date/time tank hauled off?92303 15:15	
Tank Material	-	 	_			No. of soil samples taken?	
Wrapping/Coating, if any	 					Depth of soil samples (ft. bgs) 5' 5'	
Obvious holes?	<u> </u>	1			L		
Piping Remova	1	* 1	Yes	No	N/A	General Observations Yes No	N/A
All piping removed hauled off w/				1		Leak from any tank suspected?	
Obvious holes on pipes?				1		"Leak Report" form given to the operator?	
Obvious odors from pipes?			·	17/		Obviously contaminated soil excavated?	1
Obvious soil discoloration in pipir	o trench?			1 4/		Soil stockpile sampled?	Ţ
l				 		Stockpile lined AND covered?	1
Obvious odors from piping trenet	11			1		Water in excavation sampled?	1
Water in piping trench?				1 ×.	3-	Number/depth of water samples taken? 196	
Number & depth of soil samples				تحرا	<u> </u>	All samples properly preserved for transport?	-
Number & depth of water sample	s from pip	ing tren	ch?	I_{rr}	y (* 1,34) Y (* 4		
Additional Observa			Yes	No	N/A	SITE & SAMPLING DIAGRAM	.,,
Soil/water sampling protocols acc			√			X JAir Port Facilities Boly	•
Sampling "chain of custody" not	ed?		√.			N GO O CONTRACTOR	
Tank pit filled in or covered?				1			÷
Tank pit fenced or barricaded?			<u> </u>			11	
Transporter a registered HW hau	ler?		$\sqrt{}$	1		W. DE	1)
Uniform HW Manifest complete	d?		V			Tax Tas Island	(
	of comple	te		7		219	
Contractor/Consultant reminded	130 days7	- 1				· · · ·	u.e
1	1 30 days? ations com	pleted?					
Contractor/Consultant reminded UST Removal Report due within	ations com		i?	7	4	Earlast-Rd.	

OAKLAND FIRE DEPARTMENT/OFFICE OF ÉMERGENCY SERVICES HAZARDOUS MATERIALS UNIT

1605 Martin Luther King Jr. Way, Oakland, CA 94612 • (510) 238-3938

HAZARDOUS MATERIALS INSPECTION REPORT

		AND AND THE PROPERTY OF THE PR		territoria de como processo de como como como como como como de como como como como como como como com
***	Site Number	Facility Name	Facility Address	Zip Code
		Air port Waintmance	2900 Earhart	21
	The second secon	Inspect الربيات	ion Report	
		PERMISSION TO	INSPECT GRANTED	and the state of t
	Seomo	Hrv - UST remove	<u> </u>	APPART Mark Millia Charles San Andrews (19 A n Pier copporate V Abb
			•	
% %	Hem	oved fueling Is	sland piping	
*	***************************************		' ' ' O	***************************************
				Andreas, 1946 184 24 24 24 24 24 24 24 24 24 24 24 24 24
3	·			
				where the second case and case
Ġ.	January July Santa	The second secon		HORSEN CONTROL CONTROL MANAGEMENT OF THE
	Stepha	4970	and the	have a surface that are year the transfer to the surface to the su
·	, , , , , , , , , , , , , , , , , , ,	1961 10	Sample and the	First
		3/ 2	moles acquired up	
		, , , , , , , , , , , , , , , , , , , 	De la Contraction de la contra	And the Control of th
				, , ,
	Fa	x analytical r	eaults to 1510/238	-7761

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	yandandar kazaya ki karada jaju as sefe ji dağı iş bad əsi ələş cədiği ki dəsə yandağıyan çilənin millədə Adə gayar qələnin qəzənən ilə və məd indi ilə sədə yələnin ilə ilə ədə ilə də ilə ilə ilə ilə ilə ilə ilə ilə i			
asa A	elektrista kiraktura kan kan kan kan kan kan kan kan kan ka			
		Facility Contact/Print Name:	Inspected By: Insp. Matthews	238-23 96
		Shakeel Jugia	238-3938	238-7758
		Facility Contact/Signature:	Insp. Gomez	238-7253
	·	Clarket 15 5	Date: 245004	∪ Z

538-156 (9/01)

CITY OF OAKLAND FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Suite 3341 Oakland, California 94612-2032 (510) 238-3851

APPLICATION for PERMIT to INSTALL, REMOVE or REPAIR TANKS In the CITY OF OAKLAND

Я : :	
	PLEASE CIRLCE APPROPRIATE ACTIONS: Application is hereby made for permit to:
ir.	(a) Remove (b) Install (c) Repair (d) Modify (e) Abandon/Close in Place A
Line of the control o	(a) Gasoline (b) Fuel oil (c) Diesel (d) tank(s) and excavate, commencing:
Exposment (1)	(a) four feet inside the curb line*(b) inside the property line;(c) aboveground: (d) underground tank(s) *inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING
y	
,	Site Address: 8900 Far hart Road Present storage
1	Owner: Fort of Dakland Address 530 Water Street Phone (510) 627-1134
	Applicant: Geometrix Consultants Address 2101 Webster St, 12th floor Phone (510) 663-4100
j. Kara	
	Sidewalk surface to be disturbed O X O Number of Tanks 2 Capacity 2,000 Gallons ea.
رين:	Remarks
	Signature 2 (6e omatrix)
9.1	
	PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)
	(2) Copies of Closure Plans for underground tank removal (s) (2) Sets of plans and (1) copy of specifications for above ground tank removal (2) Sets of plans and (2) sets of application packets for underground tank installation/modifications (2) Sets of plans for above ground tank installation.
	Copy or prepare to show Planning and Building annual to
	NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE
	FOR OFFICE USE ONLY
	Permit No. Amt. Recv'd Date Issued:
	Copies to: Electrical Inspection ck# Cash
	Receipt#Recv'd by:

City of Oakland, Fire <u>Department</u>, Office of Emergency Services Hazardous Materials Program APPLICATION FOR UNDERGROUND TANK REMOVAL

			Section Annual Section (Control of Control o				
F A	Project Contact & F		and among any of the state of t	Name of Control of the Control of			
L L	Facility Name Port of Oa	kland, Alv.pov	1+ Facilities	Phone# (Sic) 627 - 1134			
I T Y				94621			
	Cross Street Hen	enburger for	Swan Way	Probability of the first security of the contract and the contract of the cont			
		fort of baki	Phone # (510) 272 - 1100				
C			mental Services	Phone # (925) 634 - 6850			
O N	Contractor Address	PO BOX 579 Byron, CA 94514	CA License # 624 665	Class A HaZ			
T R	Hazardous Waste Co	ertified:		Workers Comp#			
A C	(Qualifying license c	category Athat # 62	Yes No O	1599162-02 10/13			
T O	City of Oakland Bus	siness Tax License # . 8	87293, exp. 12/31/03	Permit #			
R	Does this site have a	leaking UST (or did it ha	ive a leaking tank system?)	Yes No.			
Т	State Tank ID#	Tank Size	Material That Was Stored	Proposed Removal Date			
A	39-000568-26480	1,000 gallons	Diesel	September 1, 2003			
N K	39-006568-204802	2,000 gallons	unleaded gasoline	September 1, 2003			
S	39-	And Angel (MARINE Librar) data to 100 Marine (Marine) and order to 100 Marine (Marine) and Marine (Marine)		And the second section of the second section is a second section of the second			
. [*]	39-		The second secon	And an included the second section of the control of the second section of the section of the second section of the section of the second section of the se			
٠.	39-						
	39-						
P	APP	ROVED AI	PPROVED WITH CONDITION(S)	DISAPPROVED			
L A N	PLAN REVIEWER S SIGNATURE DATE OF APPROVAL						
APPLIC	ANT MUST PERFOR	RM ALL WORK IN ACC	CORDANCE WITH CITY OF OAKLA	ND ORDINANCES, STATE			
LAWS, A LICENS THE WO MANNE HIRING PERFOR SUBJEC	AND RULES AND RESED AGENT S SIGNATORK FOR WHICH THE RESERVE SECOME SECOME SECOME SECOME OF THE WEST TO WORKER SECOMES	EGULATIONS OF THE (ATURE CERTIFIES THI HIS INSTALLATION PL SUBJECT TO WORKER TING SIGNATURE CER FOR WHICH THI COMPENSATION LAWS	CITY OF OAKLAND FIRE SERVICES E FOLLOWING: I CERTIFY THAT LAN IS ISSUED, I SHALL NOT EMPL E S COMPENSATION LAWS OF CAL RTIFIES THE FOLLOWING: I CERT IS INSTALLATION PLAN IS ISSUED, ES OF CALIFORNIA.	S AGENCY. OWNER OR IN THE PERFORMANCE OF OY ANY PERSON IS SUCH A LIFORNIA. CONTRACTOR S OUTPY THAT IN THE I SHALL EMPLOY PERSONS			
APPLIC	ANT SSIGNATURE	SAN W	TITLE: FOAT ZOIS TO DAT	E. 0/15/02			

EXPENDED BEYOND THE HOURS COVERED BY THE INITIAL DEPOSIT AMOUNT. THE PARTY MUST ACKNOWLEDGE THIS RESPONSIBILITY FOR THE ADDITIONAL BILLING BY SIGNATURE AND DATE BELOW.

NAME Grin Favarin, Geometrix Consultants

MAILING ADDRESS 2101 Webster Street, 12th floor Dakiand, CA 94612

STREET CITY, STATE, ZIP

DAY PHONE NUMBER (510) 663-4199

area code phone #

INDICATE THE RESPONSIBLE PARTY TO BE BILLED FOR ADDITIONAL FSA/OES STAFF TIME

DATE

8/14/03

CITY OF OAKLAND

Fire Department
Fire Prevention Bureau
Hazardous Materials Program
250 Frank H. Ogawa Plaza, Ste. 3341
Oakland, CA 94612-2032

UNDERGROUND TANK CLOSURE PLAN

(Complete according to instructions)

1)	Name of Business Port of Oakland
**	Business Owner or Contact Person (PRINT) Jeff Rubin
X	
2)	Site Address 8900 Earhart Road
Š.	City Oakland Zip 94621 Phone NA
3)	Mailing Address 530 Water Street
	City Darland zip 94607 Phone (510) 627 - 1134
4)	Property Owner Port of Carland
	Business Name (if applicable)
	Address 530 Water Street
	City, State Dakland, CA zip 94607
§5)	Generator name under which tank will be manifested
80 86	port of carland
	EPA ID Under which tank will be manifested CAD 982501421

	6) Contractor Dillard Environmental Services	
	Address Po Box 579	
	City Byron (A Phone (925) 634-6850	
	License Type Engineering A - Haz IDS	***********
	Effective January 1, 1992, Business and Professional Code Section 7058.7 require contractors to also h Hazardous Waste certification issued by the State Contractor License Board	old
	7) Consultant (if applicable) Geomatrix Consultants Inc.	
	7) Consultant (if applicable) Geomatinx Consultants Inc. Address 2101 Webster St. 12th Floor City, State Darland, CA Phone (510)-663-4100	
£20.	8) Main Contact Person for Investigation (if applicable)	
	Name Erin Zavasin Title Staff Engineer	
	Company Geomatrix Consultants, Inc.	
et a	Phone (510) 663-4199	
	9) Number of underground tanks being closed with this plan 2 (Confirmed with owner operator)	
	10) State Registered Hazardous Waste Transporters/Facilities (see instructions)	
200	**Underground storage tanks must be handled as hazardous waste **	
	a) Product/Residual Sludge/Rinsate Transporter	
	Name Dillard Environmental Services (DTSC) Name Dillard Environmental Services EPAI.D. NO. CAD 982523433	
	(DTSC) Hauler License No. 1715 License Exp. Date 2 29 D4	
	Address Po Box 579	
	City By can State CA Zip 94514	
\$ \$\frac{1}{2}\$	b) Product/Residual Sludge/Rinsate Disposal Site	
	Name Romic Technologics EPAIDNO. CAD 00945 2657	
	Address 2081 Bay Road	
	City East Palo Atto State CA Zip 94303	

U)	rank and riping transporter		
	Name Dillard Environmental Services EPA I.D	. No. CAD 9825	523433
c)	Hauler License No. 1715 (DT3C)	License Exp. Da	
	Address PO BOX 579		
	City Byron	State CA	Zip 94514
d)	Tank and Piping Disposal Site		
	Name Ecology Control Industries E	PAI.D. No. CAD	0094 66392
	Address 255 Parr Blud.		
	City Richmond State CA	Zip 94801.	
11)	Sample Collector		· · · ·
	Name Erin Zavarin		
	Company Geomatrix Consultants		The state of the s
	Address 2101 Webster St, 12th	1 Floor	
	City Oakland State CA 2	ip 94612	,
	Phon(510) 1063 - 4179		
12)	Laboratory		
	Name Curtis and Tompkins, Ltd.		
	Address 2323 5th Street		
	City Berkeley State	A	Zip 94710
	State Certification No. 01107 CA		A SHARM COMMISSION OF THE SHARM COMMISSION OF THE SHARP COMMISSION OF THE SHARP COMMISSION OF THE SHAPE COMMISSION OF THE SHAP
	•		
13)	Have tanks or pipes leaked in the past Yes No	Unknow	n 🗖
	If yes, describe	· · · · · · · · · · · · · · · · · · ·	
		- California (September 1988 - Septembe	**************************************

14) Describe methods to be used for rendering tank (s): inert:

Contents of tanks will be removed, and tanks will be

cleaned. Dry ice will be used to achieve appropriate LEL7/or conditions inside tanks.

Before tanks are pumped out and inserted, all associated piping must be flushed out into the tanks. All accessible associated piping must then be removed. Inaccessible piping must be permanently plugged.

The Bay Area Air Quality Management District, 415/771-6000 must also be contacted for tank removal permit. The use of a combustible gas indicator to verify tank inertness is required. It is the contractor's responsibility to bring a working combustible gas indicator on-site to verify that the tank is inert. Note: you may be required to recalibrate the combustible gas indicator on site, to show that it is working properly.

15) Tank History and Sampling Information *** (see instructions) ***

	Tank	Material to be sampled (tank	Location and Depth of Samples		
Capacity	Use History include date last used (estimated)	contents, soil, groundwater)			
1,000 gallons	Installed in 1986. Contented dieselfuel.	Soil	IF ground waster absent: 2 samples below tank (at each end of tank) at least 2 feet into native soil. If grand waster present: One sample at each end of tank at soil /gw interfact:		
		grandwater	one sample from excavation after it has been amped and allowed to refill.		
2,000 gattons	Installed in 1986. Contains regular unleaded gasoline.	Same as above	Jame as above		

One soil sample must be collected for every 20 linear feet or piping that is removed. A ground water sample must be collected if any ground water is present in the excavation.

EXCAVATED/STOCKPILED SOIL

Stockpiled Soil volume (estimated)	Sampling Plan
100 cubic yards (cy)	One A-point composite per SOCy; collected in clean, brass tubes sealed with teflor sheets plastic endcaps, and silicon tape.
Stockpiled soil must be placed on beamed plastic a	nd must be completely covered by plastic sheeting
Will the excavated soil be returned to the exca	evation immediately after tank removal?
☐ yes No	unknown
If yes, explain reasoning	

If unknown at this point in time, please be aware that excavated soil may no be returned to the excavation without prior approval from Fire Services Agency, Office of Emergency Services. This means that the contractor, consultant, or responsible party must communicate with the Hazardous Materials Inspector IN ADVANCE of backfilling operations.

16. Chemical methods and associated detection limits to be used for analyzing samples:

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed.

See attached Table 2.

17. Submit Site Health and Safety Plan (see Instructions)

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Dete	ection Limit
TPHq		EPA 8015B	1.0 mylkg	
TPHA	silica gel prep (EPAMeth. 50308)	EPA 8015B	1.0 ms/145	50m/L
BTEX	503007	EPA 8260B	0.005 my/kg	0.525/
MTBE		EPA 8260 B	0.005 mg/kg	0.5xy/L
Pb	3w- filtered in the field	EPA 6010B	0.15 ms/eg	3mg/L

18. Submit Workers Compensation Certificate copy
Name of Insurer State Fund - SEE Copy.
19. Submit Plot Plan ***(Be Instructions)***
20. Enclose Permit fee (See Instructions)
21. Report any leaks or contamination to this office within 5 days of discovery.
The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report, (ULR) form.
22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.
23. Submit State (Underground storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for tank removed in the upper right hand corner)
I declare that to, the best of my knowledge and belief that the statements and information provided above are correct and true.
I understand that information, in addition to that proved above, may be needed in order to obtain approval from the Hazardous Materials Division 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 above.
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 health and safety. I understand not shared nor assumed by the City of Oakland.
Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Inspector at least three working days in advance of site-work, to schedule the required inspections.
CONTRACTOR INFORMATION
Name of Business Dillard Environmental Services
Name of Individual MG455A KIRD
Signature Date 8-4-03

. Landinus

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (Circle one)

Name of Business PORT OF OAKLAND	
Name of Individual DALE STUNE	
Signature	

General Instructions

- Three (3) copies of this plan plus attachments and permit must be submitted to this Department.
- Any cutting into tanks requires Fire Services Agency approval.
- One complete copy of your approved plan must be at the construction site at all times; a copy of your approved plan must also be sent to the landowner.
- State of California Permit Application Forms A and B are to submit to this office One Form A per site, one Form B for each removed tank.

Line Item Specific Instructions

2. SITE ADDRESS

Address at which closure is taking place.

- EPA I.D. NO. under which the tanks will be manifested
 EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781
- 6. CONTRACTOR

Prime contractor for the project.

10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES

- All residual liquids and sludges are to be removed from tanks before tanks are inerted.
- c) Tanks must be hauled as hazardous waste.
- d) This is the place where tanks will be taken for cleaning.

15) TANK HISTORY AND SAMPLING INFORMATION

Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

Material to be sampled - e.g. water, oil, sludge, soil, etc.

Location and depth of samples - e.g. beneath the tank a maximum of two feet below the native soil/backfill interface, side wall at the trig} water mark, etc.

16) CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS See attached Table 2.

17) SITE HEALTH AND SAFETY PLAN

A site specific Health and Safety plan must be submitted. We advocate the site health and safety plan include the following items, at a minimum:

- a) The name and responsibilities of the site health and safety officer.
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;

UNIFIED PROGRA	M CONSOLIDATED FORM	
	ORAGE TANKS - FACILI	TANE
		1 /
TYPE OF ACTION 1. NEW SITE PERMIT 3. RENEWAL PERMIT (Check one item only)		one page per site) Page of
(Check one item only)	specify change local use only	7 PERMANENTLY CLOSED SITE 8. TANK REMOVED
Company of the second s	☐ 6.TEMPORARY SITE CLOSURE	4
I. FACILITY /	SITE INFORMATION	and the state of t
BUSINESS NAME (Same as FACILITY NAME of DBA - Doing Business As) 1 FACIL	ITY ID#	And the second s
Arport Facilities, Bldg L311		
MEAREST EROSS STREET Gerhart Road + Hesenburger Street	FACILITY OWNER TYPE	4. LOCAL AGENCY/DISTRICT*
BUSINESS 1. GAS STATION 3. FARM 5. COMMERCIA	L CORPORATION T	5. COUNTY AGENCY*
TYPE 2. DISTRIBUTOR 4. PROCESSOR 6. OTHER	L.	6. STATE AGENCY*
TOTAL NUMBER OF TANKS Is facility on Indian Reservation or	*If owner of UST is a public process asset of	7. FEDERAL AGENCY* 402
downwind At Site trustlands?	" (a may no sup contract herson for f	pervisor of division, section of office which he tank records.)
O 404 O Yes X No 40		
II. PROPERTY O	WNER INFORMATION	The state of the s
PROPERTY OWNER NAME		
Part of maximal	LINUNE	627-1134 408
MAILING OR STREET ADDRESS	23 /	
530 Water Street		409
Oakland	STATE 411 ZIP CODE	412
PROPERTY OWNER TYPE 1. CORPORATION 2. INDIVIDUAL		60 +
☐ 3. PARTNERSH		6. STATE AGENCY
		7. FEDERAL AGENCY 413
TANK OWN	ER INFORMATION	
Port of Oakland	414 PHONE	A15
MAILING OR STREET ADDRESS	(510) 6	27-1134
530 Water Street		416
Oakland 417	STATE 418 ZIP CODE	410
7.4.2777	CA " 9460	07
TI SOURCE TOTAL CONTINUENT		6. STATE AGENCY 420
3. PARTNERSH	The state of the s	7. FEDERAL AGENCY
IV. BOARD OF EQUALIZATION US	I STORAGE FEE ACCOUNT NUM	IBER
Y (TK) HQ 44- 00 5 68	Call (916) 322-9669 if questions aris	
V. PETROLEUM UST FIN	ANCIAL RESPONSIBILITY	SC 421
NDICATE METHOD(s) 1. SELF-INSURED 4. SURETY BOND	The state of the s	
	7. STATE FUND	10. LOCAL GOVT MECHANISM
☐ 3. INSURANCE ☐ 6. EXEMPTION	☐ 8. STATE FUND & CFO LETTER ☐ 9. STATE FUND & CD	99. OTHER:
		422
heck one box to indicate which address should be used for land	N AND MAILING ADDRESS	
egal notifications and mailings will be sent to the tank owner unless box 1 or 2 is checked.	☐ 1. FACILITY ☐ 2. PROPERTY OWNE	IR 3. TANK OWNER 423
	T SIGNATURE	
rtification 1 certify that the information provided herein is true and accurate to the best of m	y knowledge.	
GNATURE OF APPLICANT	DATE OF THE PH	IONE 425
AME OF APPLICANT (print) 426		510) 663-4199
Erin Zavarin	TITLE OF APPLICANT	427
ATE UST FACILITY NUMBER (For local use only)	No. 10 Personal Property Control of the Control of	
	1998 UPGRADE CERTIFICATE NUMBER (I	Fer local use only) 419

UNIFIED PROGRAM CO	NSOLIDATED FORM
	TARIZO
UNDERGROUND STORAG	E TANKS - TANK PACE 1
	(two pages per tank)
TUDE OF ACTION	
TYPE OF ACTION I I NEW SITE PERMIT A AMENDED PERMIT 5 CHA	NGE OF INFORMATION D 6 TEMPORARY SITE CLOSURE
	7 PERMANENTLY CLOSED ON SITE
Colored Colore	
LOCATION WITHIN SITE (Options)	
	GI
I. TANK DESCRIPTION (A scaled plot plan with the location of the UST syste	m including buildings and landmarks shall be asherited to the Leaf
1 1 A N K 11 12	430 COMPARTMENTALIZED TANK Yes No 434
LF17 Modern Welding Co. 1	VIC . If "Yes", complete one page for each compartment.
DATE INSTALLED (YEAR/MO) 435 TANK CAPACITY IN GALDONS	436 NUMBER OF COMPARTMENTS C7
1986	
ADDITIONAL DESCRIPTION (For local use only)	438
II. TANK COM TANK USE 439 PETROLEUM TYPE	VIENTS
TO 1 MOTOR VEHICLE PARTY	440
And the state of t	
☐ 2. NON-FUEL PETROLEUM ☐ 16. PREMIUM UNLEADED ☐ 4. GASONG	6. AVIATION FUEL
3. CHEMICAL PRODUCT COMMON NAME (from Hazardora Materials Inventory pr	
4. HAZARDOUS WASTE	go) 441 CAS# (from Hazardons Maiorials inventory page) 442
(Includes Used Oil)	
☐ 95. UNKNOWN	
III. TANK CONS	RUCTION
TYPE OF TANK 1: SINGLE WALL 3. SINGLE WALL WITH	☐ 5. SINGLE WALL WITH INTERNAL BLADDER SYSTEM 43
(Check one item only) EXTERIOR MEMBRANE	
2. DOUBLE WALL 4. SIGNLE WALL IN VAUL	J □ 99. OTHER
TANK MATERIAL -primary tank 11. BARESTEEL 13. FIBERGLASS / PLASTIC	☐ 5. CONCRETE ☐ 95. UNKNOWN 444
(Chock one item only) Q 2. STAINLESS STEEL A. STEEL CLAD WIFIBERGE	
REINFORCED PLASTIC () TANK MATERIAL - secondary tank	
TANK MATERIAL -secondary tank 1. BARE STEEL 13. FIBERGLASS / PLASTIC (Check one item unity) 2. STAINLESS STEEL 4. STEEL CLAD W/FIBER	D 33. CHRICAN TO
REINFORCED PLASTIC	
5. CONCRETE	COMPANIES STEEL
The latest statement of the statement of	PLASS LINING 95. UNKNOWN 445 DATE INSTALLED 447
OR COATING 2 ALKYD LINING 4 PHENOLIC LINING 16 UN	
(Check one Item only)	ILINED 99 OFRER (For local two only)
OTHER CORROSION I MANUFACTURED CATEODIC TO FIBERGLASS REINI	POWER Shipping with the state of the state o
PROTECTION IF APPLICABLE PROTECTION 4 IMPRESSED CURRE	NT Q 99 OTHER
(Check one item only) LJ 2 SACRIFICIAL ANODE	(For local two only)
SPILL AND OVERFILL YEAR INSTALLED 1998 TYPE (Icea) take only) 4: (Check all that apply) K 1 SPILL CONTAINMENT	OVERFILL PROTECTION EQUIPMENT: YEAR INSTALLED 1998 452
,	☐ 1 ALARM ☐ 3 FILL TUBE SHUT OFF VALVE
X 2 DROP TUBE .	☐ 2 BALL FLOAT ☐ 4 EXEMPT
X 3 STRIKER PLATE	
IV. TANK LEAK DETECTION (A description of the re- IF SINGLE WALL TANK (Check all that apply) 45	
(*)	(Check one ilem only)
☐ I VISUAL (EXPOSED PORTION ONLY) ☐ 5 MANUAL TANK GAUGING (N	(TG) DI VISUAL (SINGLE WALL IN VAULT ONLY)
2 AUTOMATIC TANK GAUGING (ATG) 6 VADOSÉ ZONE	2 CONTINUOUS INTERSTITIAL MONITORING
O 3 CONTINUOUS ATG O 4 STATISTICAL DEVENTORY DECONOCIDATION O 5 CONTINUOUS ATG	☐ I MANUAL MONITORING
4 STATISTICAL INVENTORY RECONCILIATION 8 TANK TESTING (SIR) RIPINITAL TANK TESTING	
(SIR) BIENNIAL TANK TESTING 99 OTHER	1 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
IV. TANK CLOSURE INFORMATION / PE ESTIMATED DATE LAST USED (YRMO/DAY) 455 ESTIMATED QUANTITY OF SUB-	
ESTIMATED DATE LAST USED (YR/MO/DAY) 655 ESTIMATED QUANTITY OF SUB	STANCE REMAINING 456 TANK FILLED WITH INERT MATERIAL? 457 gallons Yes No
And the state of t	Li 105 Lf IVO

UNIFIED PROGR	RAM C	CONSOLIDATED FORM	al Establish
		TANKS	
UNDERGROUND STO	ORAC	GE TANKS – TANK PAGE 2	
VI. PIPING CONSTRI		N. co	of C
UNDERGROUND PIPING	- o a coppe de la cop	ABOVEGROUND PIPING	•
SYSTEM TYPE 1. PRESSURE 2. SUCTION 13. GRAV			459
CONSTRUCTION 1. SINGLE WALL 3. LINED TRENCH 99. OTI	HER 4	460 I I. SINGLE WALL S. UNKNOWN	462
MANUFACTURER 2. DOUBLE WALL 95. UNKNOWN		☐ 2 DOUBLE WALL ☐ 99, OTHER	
MANUFACTURER			463
	[] I. BARE	The state of the s	OL
	-	AINLESS STEEL 7. GALVANIZED STEEL	
		ASTIC COMPATIBLE W/ CONTENTS B. FLEXIBLE (HDPE) 99. OTHER BERGLASS	
		EUL STOOL ATTEND	
1		EEL W/COATING 95. UNKNOWN description of the monitoring program shall be submitted to the local agency.)	465
OADBROOND FIRING	APPENDED TO	ABOVEGROUND PIPING	
SINGLE WALL PIPING	466	SINGLE WALL PIPING	467
PRESSURIZED PIPING (Check all that apply):		PRESSURIZED PIPING (Check all that apply):	
1. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PUMP OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION +		O I. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP	
AUDIBLE AND VISUAL ALARMS.	į	SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION AUDIBLE AND VISUAL ALARMS.	N÷
2, Monthly 0.2 gph test	- 1-	□ 2. MONTHLY 0.2 GPH TEST	
3. ANNUAL INTEGRITY TEST (0.1GPH)		☐ 3. ANNUAL INTEGRITY TEST (0.1GPH)	
		4. DAILY VISUAL CHECK	
CONVENTIONAL SUCTION SYSTEMS	1	CONVENTIONAL SUCTION SYSTEMS (Check all that apply)	
5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPE INTEGRITY TEST (0.1 GPH)	mar⇔ i	☐ 5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM	
SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDPIPING):		G. TRIENNIAL INTEGRITY TEST (0.1 GPH)	
7. SELF MONITORING		SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):	
GRAVITY FLOW	1.	ARE SOUTHORS IS TEMS (NO VALVES IN BREOW GROUND PIPING):	
O 9. BIENNIAL INTEGRITY TEST (0.1 GPH)	1	GRAVITY FLOW (Check all that apply):	
, , , , , , , , , , , , , , , , , , , ,	1.	GRAVITY FLOW (Cheek all that apply): G. DAILY VISUAL MONITORING	
	ì	D 9. BIEVNIAL INTEGRITY TEST (0.1 GPH)	
SECONDARILY CONTAINED PIPING	1	SECONDARILY CONTAINED PIPING	
PRESSURIZED PIPING (Check sil that apply):	1.	PRESSURIZED PIPING (Check all that apply):	
10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)		10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL, ALARMS AND (Check one)	
D. AUTO PUMP SHUT OFF WHEN A LRAK OCCURS		☐ a AUTO PUMP SHUT OFF WHEN A LEAK OCCURS	
 □ b. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTE DISCONNECTION □ D. NO AUTO PUMP SHUT OFF 	M	☐ 5 AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION ☐ NO AUTO PUMP SHUT OFF	
11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHU	or],		
OFF OR RESTRICTION	1	11. AUTOMATIC LEAK DETECTOR	
12. ANNUAL INTEGRITY TEST (0.1 GPH)		☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)	
SUCTION/GRAVITY SYSTEM		SUCTION/GRAVITY SYSTEM	
13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	1 [13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS	
EMERGENCY GENERATORS ONLY (Check sti that apply) 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS	i	EMERGENCY GENERATORS ONLY (Chock all that upply) 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SHUT OFF * AUDIBLE AND VISUAL ALARMS	
15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITHOUT FLOW	1,	☐ 15. AUTOMATIC LINE LEAK DETECTOR (1.0 GPH TEST)	
SHUT OFF OR RESTRICTION 16. ANNUAL INTEGRITY TEST (0.1 GPH)	i		
17. DAILY VISUAL CHECK	1 _	16. ANNUAL INTEGRITY TEST (0.1 GPH)	
	······································	CONTAINMENT	
DISPENSER CONTAINMENT	-	VALVE TIA DATIVATIONAL CHECK	 -
DATE INSTALLED 468 2. CONTINUOUS DISPENSER PAN SENSOR 3. CONTINUOUS DISPENSER PAN SENSOR	R + AUDIB	OBLE AND VISUAL ALARMS [] 5. TRENCH LINER / MONITORING AUTO SHIP OFF FOR	
DISPENSER + AUDIBLE AND VISUAL AL	LARMS	Mount ablance	69
	DPERAT	TOR SIGNATURE	
Teartify that the information and ordered ficing true and accurate to the best of my knowledge. SIGNATUREOF OWNER ORDERATOR	T-T	DATE	70
THIRACUL	"	8/19/03	/0
NAME OF GWNER/OPRATOR (print)	471	TITLE OF OWNER/OPERATOR	72
ADRTOP CAKLAND M MCMILLAN		PORT SCIENTIST	~~**** <u>***</u>
Permit Number (For local use only) 473 Pennit Approved (For loc	ical use naly?	nly) 474 Permit Expiration Date (For local two only) 4	475

UNIFIED PROGRAM CONSOLIDATED FORM	
TAN	UKR
UNDERGROUND STORAGE TANKS - TANK PAGE 1	14XL3
(two pages per	to alel
Per II. of	
TYPE OF ACTION	` <i>⋺</i> -
(Cacch one item only)	
3 RENEWAL PERMIT (Specify reason - for local use only) (Specify reason - for local use only) If 8 TANK REMOVED	430
BUSINESS NAME (Semo as FACILITY NAME or DBA - Doing Business As) FACILITY ID:	
Arport Facilines Blde L-311 2	
LOCATION WITHIN SITE (Optiones)	e:
L TANK DESCRIPTION (A scaled plot plan with the location of the UST system including buildings and landmarks shall be submitted to the local agency.)	
TANK ID# . 632 TANK MANUFACTURED 631 COLUMN TO THE TANK OF THE	434
LF18 Modern Welding Co., Inc. It "You", complete one page for each competitional	
DATE INSTALLED (YEAR/MO) 435 TANK CAPACITY IN GALLONS 436 NUMBER OF COMPARTMENTS	437
1986 . 2,000	
ADDITIONAL DESCRIPTION (For local use only)	438
IL TANK CONTENTS	drammer was
TANK USE 69 PETROLEUM TYPB	440
1. MOTOR VEHICLE FUEL 21. REGULAR UNLRADED 2. LEADED 5. JET FUEL	
(If fourised complete Petroleum Type) 1b. PREMIUM UNLEADED 3. DIESEL 06. AVIATION FUEL	
2. NON-FUEL PETROLEUM 1: MIDGRADE UNLEADED 4. GASCHOL 99. OTHER	
(name of the contract of	442
☐ 4. HAZARDOUS WASTE	
(finetrados Used Olt)	
O 95, UNKNOWN	
III. TANK CONSTRUCTION	tous in wiftl
TYPE OF TANK SINGLE WALL	443
(Chock one item only) EXTERIOR MEMBRANE LINER	
2. DOUBLE WALL 4. SIGNLE WALL IN VAULT 99. OTHER	
, ————————————————————————————————————	644
(Check one list only)	
REINFORCED PLASTIC (FRP)	
<u> </u>	445
(Check one (term only)	
REINFORCED PLASTIC (FRP) 10. COATED STEEL	
5. CONCRETE TANK INTERIOR LINING 1. RUBBER LINED 13. EPOXY LINING 1. CHASS LINING 1. S. TINK NOWN 446 DATE INSTALLED.	-
- DATE STORMED	447
OR COATING 2 ALKYD LINING 4 PHENOLIC LINING 6 UNLINED 99 OTHER (Chock one item only)	
	-
OTHER CORROSION 🔲 I MANUFACTURED CATHODIC 🕅 3 FIBERGLASS REINFORCED PLASTIC 🔲 95 UNKNOWN 46 DATE INSTALLED	449
PROTECTION IF APPLICABLE PROTECTION	
(Chock one from only)	
	452
(Chock all that apply) X 1 SPILL CONTAINMENT O 1 ALARM J 2 FILL TUBE SHUT OFF VALVE	
☐ 2 DAOP TUBE ☐ 2 BALL FLOAT ☐ 4 EXEMPT	
№ 3 STRIKER PLATE	-
IV. TANK LEAK DETECTION (A description of the monitoring program shall be submitted to the textsl agency.)	
IF SINGLE WALL TANK (Check all that apply) 453 IF DOUBLE WALL TANK OR TANK WITH BLADDER (Check one item only)	454
☐ I VISUAL (EXPOSED PORTION ONLY) ☐ 5 MANUAL TANK GAUGING (MTG) ☐ I VISUAL (SINGLE WALL IN VAULT ONLY)	
☐ 2 AUTOMATIC TANK GAUGING (ATG) ☐ 6 VADOSE ZONE ☐ 2 CONTINUOUS INTERSTITIAL MONITORING	
□ 3 CONTINUOUS ATG □ 3 GROUNDWATER □ 3 MANUAL MONITORING	
□ 4 STATISTICAL INVENTORY RECONCILIATION □ 8 TANK TESTING	•
(SIR) BIENNIAL TANK TESTING 🔲 99 OTHER	
IV. TANK CLOSURE INFORMATION / PERMANENT CLOSURE IN PLACE	************
ESTIMATED DATE LAST USED (YRMO/DAY) 455 ESTIMATED QUANTITY OF SUBSTANCE REMAINING 456 TANK FILLED WITH INEY MATERIAL?	457
gallons	

UNIFIED PROGRAM CONSOLIDATED FORM

		TANKS	
UNDERGROUND STOR	AGE	E TANKS – TANK PAGE 2	
VL PIPING CONSTRUCT	ION (ch	rik all that apply)	
UNDERGROUND PIPING		ABOVEGROUND PIPING	
system type 🔲 1. pressure 💢 2. suction 💢 3. gravity	458	☐ 1. PRESSURE ☐ 2. SUCTION ☐ 3. GRAVITY	4.55
CONSTRUCTION [] 1. SINGLE WALL [] 3. LINED TRENCH [] 99. OTHER	460	☐ 1. SINGLE WALL ☐ 95. UNENOWN	467
manufacturer 💆 2. double wall 💢 95. unknown		2. DOUBLE WALL 99. OTHER	
MANUFACTURER	461	MANUFACTURER	467
1. BARE STEEL 6. FRP COMPATIBLE WIDOW METHANOL 1. I	BARE STI	EEL. 🔲 6. PEP COMPATIBLE W/100% MET	HANOL
2. STAINLESS STEEL 7. GALVANIZED STEEL Unknown 22.	STAINLE	ess steel 7. galvanized steel	
☐ 3. FLASTIC COMPATIBLE W/CONTENTS ☐ 99. Other ☐ 3. 1	PLASTIC	COMPATIBLE W/CONTENTS 🔲 8. FLEXIBLE (EDPE) 🔲 99. 07	HER
▼4. FIBERGLASS □ 8. FLEXIBLE (HDPE) □ 4. 1	FIBERGI.	LASS 9. CATHODIC PROTECTION	
-	the formation to all a con-	V/COATING 95. UNKNOWN	463
VII. PIPING LEAK DETECTION (Check all that apply)	(A downing	tion of the manitoring program shall be submitted to the local agency.)	
UNDERGROUND PIPING	,,,,	ABOYEGROUND PIPING	and all the second second sec
SINGLE WALL PIPING 466		SINGLE WALL PIPING	457
PRESSURIZED PIPING (Check all that apply):	PRE	ESSURIZED PIPING (Check all that apply):	
 I. ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST WITH AUTO PUMP SHU OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNECTION + AUDIBLE AND VISUAL ALARMS. 2. MONTHLY 0.2 GPH TEST 		 ELECTRONIC LINE LEAK DETECTOR 3.0 GPH TEST <u>WITH</u> AUTO PU SHUT OFF FOR LEAK, SYSTEM FAILURE, AND SYSTEM DISCONNE AUDIBLE AND VISUAL ALARMS. MONTHLY 0.2 GPH TEST 	
T 3. ANNITAL INTEGRATE TEST (0.1GPH)	ln.	1. ANNUAL INTEGRITY YEST (0 LGPE)	

3. Annual integrity test (0.1998)	
CONVENTIONAL SUCTION SYSTEMS	
5. DAILY VISUAL MONITORING OF PUMPING SYSTEM + TRIENNIAL PIPING INTEGRITY TEST (0.1 GPE)	
SAFE SUCTION SYSTEMS (NO VALUES IN BELOW GROUNDFIFING):	
7. SELF MONITORING	
GRAVITY FLOW	
O 9, BIENNIAL INTEGRITY TEST (0.1 GPB)	

SECONDARILY CONTAINED PIPING PRESSURIZED PIPING (Cheek all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check one)

AUTO PUMP SHUT OFF WHEN A LEAK OCCURS

🔲 6. AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM PAILURE AND SYSTEM DISCONNECTION

C. NO AUTO PUMP SHUT OFF

11. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) WITH FLOW SHUT OFF OR RESTRICTION

12. ANNUAL INTEGRITY TEST (0.1 OPH)

SUCTION/GRAVITY SYSTEM

13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Chook all that apply) ☐ 14. CONTINUOUS SUMP SENSOR <u>WITHOUT</u> AUTO PUMP SEUT OFF *

AUDIBLE AND VISUAL ALARMS
AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST) <u>WITHOUT</u> FLOW SHUT OFF OR RESTRICTION

16. ANNUAL INTEGRITY TEST (0.1 GPH)

17. DAILY VISUAL CHECK

A. DAILY VISUAL CHECK

CONVENTIONAL SUCTION SYSTEMS (Chock all that apply)

5. DAILY VISUAL MONITORING OF PIPING AND PUMPING SYSTEM

6. TRIENNIAL INTEGRITY TEST (0.1 CPF)

SAFE SUCTION SYSTEMS (NO VALVES IN BELOW GROUND PIPING):

7. SELF MONITORING

GRAVITY FLOW (Chock all that apply):

■ 8. DAILY VISUAL MONITORING

9. BIENNIAL INTEGRITY TEST (0.1 GPH)

SECONDARILY CONTAINED PIPING

PRESSURIZED PIPING (Chock all that apply):

10. CONTINUOUS TURBINE SUMP SENSOR WITH AUDIBLE AND VISUAL ALARMS AND (Check out)

a auto pump shut off when a leak occurs

☐ 6 AUTO PUMP SHUT OFF FOR LEAKS, SYSTEM FAILURE AND SYSTEM DISCONNECTION

☐ ON AUTO PUMP SHUT OFF

□ 11. AUTOMATIC LEAK DETECTOR

☐ 12. ANNUAL INTEGRITY TEST (0.1 GPH)

SUCTION/GRAVITY SYSTEM

13. CONTINUOUS SUMP SENSOR + AUDIBLE AND VISUAL ALARMS

EMERGENCY GENERATORS ONLY (Check all that apply) 14. CONTINUOUS SUMP SENSOR WITHOUT AUTO PUMP SHUT OFF .

AUDIBLE AND VISUAL ALARMS 15. AUTOMATIC LINE LEAK DETECTOR (3.0 GPH TEST)

☐ 16. ANNUAL INTEGRITY TEST (0.1 GPH)

17. DAILY VISUAL CHECK

VIII.	DISPE	NSER	CON	TAIN	MENT

1. FLOAT MECHANISM THAT SHUTS OFF SHEAR VALVE DISPENSER CONTAINMENT 2. CONTINUOUS DISPENSER PAN SENSOR + AUDIBLE AND VISUAL ALARMS DATE INSTALLED

4. DAILY VISUAL CHECK S, TRENCH LINER / MONITORING

3. CONTINUOUS DISPENSER PAN SENSOR WITH AUTO SHUT OFF FOR DISPENSER + AUDIBLE AND VISUAL ALARMS

Pennit Approved (For local use only)

RELINONE, WINFOWN

469

472

IX. OWNER/OPERATOR SIGNATURE Feartify that the information provided herein is true and a him to the best of my knowledge.

SIGNATURE OF OWNER/OPERATOR NAME OF OWNER/OPRATOR (page) PORT OF

OAKLAND

TITLE OF OWNER/OPERATOR

ermit Expiration Date (For local tate only)

Formerly SWRCB Form B

Permit Number (For local use only)



Approvals Initials Date EΖ 8/14/03 Prepared PROJECT INFORMATION Ву Date(s) of Field Work: 9/1/03 - 9/15/03

Project Name: 8900 Earhart Road Project Number: 8207.005 Site Phone: NA Client: Jeff Rubin

Site Address: 8900 Earhart Rd., Oakland Site Plan Attached

Scope of Work: Removal of underground storage tanks

Type of Project:	⊠Envir	onmental; 🛚	Geotechnical;	Industrial Pro	cess; Other:	1010 100 % Ca	amatriz Guid	alimae
MHAZWOPER	: Project:	Training & l	Medical Survei	Hance must confe	orm to 29 CFK	1910.120 & Ge	OHIAHIX GUIU	cuncs.
Client Specifi								

KEV	CON	TAC	CTS

Cell: 510-821-8925 Phone: 510-663-4167 Project Manager: Jennifer Patterson Cell: 510-821-8925 Phone: 510-663-4167 Project H&S Manager: Jennifer Patterson Cell: 510-914-5165 Phone: 510-663-4199 Site H&S Manager: Erin Zavarin Cell: Phone: 510-627-1134 Client Contact: Jeff Rubin Cell: Phone: Client's Site Contact: Jeff Rubin Cell: 510-368-6433 Phone: 510-663-4115 Other: Don Kubik

Other: ____

Emergency Medical Facility: Alameda Hospital Address: 2070 Clinton Avenue, Alameda Phone Number (general): 510-522-3700

Emergency Medical Facility Confirmed

Phone Number (emergency): 510-522-3700

8/15/03

DK

Approved

Ву

Map to the hospital is attached

Police: 911 Fire: 911 Paramedic/Ambulance: 911

Poison Control Center: 800-222-1222

EMERGENCY PROCEDURES

Medical Emergencies

1. Remove injured or exposed person(s) from immediate danger if possible.

2. Evacuate other on-site personnel to a safe place in an upwind direction until it is safe for work to resume.

3. If serious injury or life-threatening condition exists, call 911 - Paramedics, fire department, police, hospital emergency room. Clearly describe location, injury and conditions to dispatcher/hospital. Designate a person to direct emergency equipment to the injured person(s).

4. Provide first aid if necessary. Remove contaminated clothing only if this can be done without endangering the injured

person.

5. Call the project manager and/or project health and safety officer.

6. Immediately implement steps to prevent recurrence of the accident.

Accidental Release of Hazardous Materials or Wastes

- 1. Evacuate all on-site personnel to a safe place in an upwind direction until the PM or PHSO determines that it is safe for work to resume.
- 2. Immediately instruct a designated person to contact the PM or PHSO.
- 3. Contain spill, if it is possible and it can be done safely.
- 4. Initiate cleanup.

General Emergencies

In the case of fire, flood, explosion, or other hazard, work shall be halted and the local police/ fire department shall be notified by calling 911. All on-site personnel will be immediately evacuated to a safe place.

I:\Project\8000s\8207.005\Earhart Rd HEALTH AND SAFETY PLAN.doc

	HAZARDS			
CHEMICAL	EXPOSU OSHA	RE LIMITS ACGIH	KNOWN/EXPECTED CONCENTRATIONS	HEALTH HAZARDS
Casalina	<u> </u>	TLV: 300 ppm	Unknown	Inhalation, dermal
Gasoline Benzene	Pel: 300 ppm Pel: 1 ppm	TLV: 0.3 ppm	Unknown	Inhalation, dermal
Toluene	Pel: 50 ppm	TLV: 50 ppm	Unknown	Inhalation, dermal
Ethyl	Pel: 100 pm	TLV: 100 ppm	Unknown	Inhalation, dermal
Benzene	1 Ct. 100 pin	124. 100 pp.		
Xylenes	Pel: 100 pm	TLV: 100 ppm	Unknown	Inhalation, dermal
MTBE	Pel: none	TLV: 40 ppm	Unknown	Inhalation, dermal
Diesel	Pel: none	TLV: 100 mg/m ³	Unknown	Inhalation, dermal
Other:	<i>E</i>	person. 2. If excavation is 5-feet o provides no indication of 3. Deeper excavations wil	r greater there must be a mean. r less, the person may enter as	long as a competent person
	AL HAZARDS:	ocation with USA and pr	ivate utility locator. Mold: Insects: Other:	
PERSONAL	DECONTAMINAT	facility that is secured will the secure	S: Remove disposable gloves	s and clothing and place in
	on: <u>R</u> Safety Glasses; <u>R</u> Ste		QUIRED, A = HAVE A' Face Shield;Other:Chemical Resistant B mex;Other:	-

MONITORING EQUIPMENT		
Photo Ionization Detector with <u>10.2</u> eV lamp	Flame Ionization Detector	
Combustible Gas Indicator	Oxygen Meter	
Detector Tube (Brand:) - Tubes:		
Hydrogen Sulfide Meter		
Passive Dosimeter		
Air Sampling Pump – Filter Media:		
Other: Contractor will provide combustible gas indica	ttor to monitor excavation and tanks.	
Frequency of monitoring: 15 minutes	•	



\$200

25 35 35

TAILGATE SAFETY MEETING

Signature



Maps Yellow Pages City Guid

Starting from: 8900 Earhart Rd, Oakland, CA 94621-4546

Arriving at: Alameda Hospital

2070 Clinton Ave, Alameda, CA 94501-4320 (510) 522-3700

ER (510) 522-3700

Approximate Travel Time: 8 mins Distance: 4.0 miles

Directions

- Start at 8900 EARHART RD, OAKLAND on EARHART RD going towards DE HAVILLAND ST go 0.1 mi
- Turn On SWAN WAY go 0.1 mi 2.
- Turn (1) on DOOLITTLE DR go 2.1 mi 3.
- Turn on BAY FARM ISLAND BRG go 0.3 mi
- BAY FARM ISLAND BRG becomes OTIS DR go 1.2 mi
- Turn R on WILLOW ST go 0.2 mi 6.
- Turn On CLINTON AVE go 0.1 mi
- Arrive at 2070 CLINTON AVE, ALAMEDA

When using any driving directions or map, it's a good idea to do a reality check and make sure the road still exists, watch out for construction, and follow all traffic safety precautions. This is only to be used as an aid in planning.

Full Route

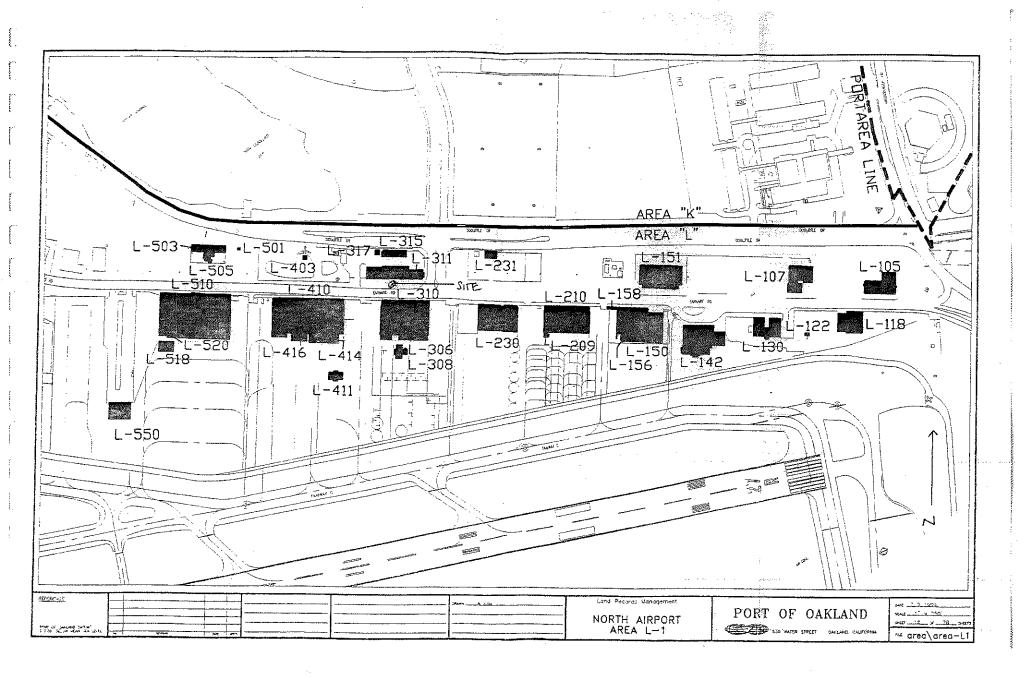
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Destination



2070 Clinton Ave Alameda, CA 94501-4320

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Pt	QUC	ES. AGGREGATE LIMITS SHOWN HAV H	HAVE BEEN ISSUED TO THE INSURED IN ANY CONTRACT OR OTHER DOCUMENT Y THE POLICIES DESORIBED HEREIN IS S AVE BEEN REDUCED BY PAID CLAIMS.	MIED ABOVE FOR THE PA WITH RESPECT TO WHIC JUBIECY TO ALL THE TER	OLICY PERIOD INDICA IN THIS CERTIFICATE MB, EXOLUSIONS AND	TED, NOTWITHSTANDING MAY BE ISSUED OR I CONDITIONS OF BUCH	######################################
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-*		CLAMS MADE X DECK		04/01/03	10/01/03		\$ 100,000
		The state of the s		1		MED EXP (Any one person)	5,000
- }		X Ded \$5,000		1		PERSONAL & ACIV INJURY	1.000,000
		GEN'L AGGREGATE LIMIT APPLIES PE	R.			GENERAL AGGREGATE	\$2,000.000
		POLICY SECT LO	•			PRODUCTS - COMP/OP AGG	\$2,000,000
		AUTOMOBILE LIABILITY				Emp Benef	1,000,000
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		X Comp Ded \$2,000				PROPERTY DAMAGE (Per scriben)	\$
-		ANY AUTO			į	AUTO CNLY - EA ACCIDENT	\$
		Fredoritor			į	AUTO ONLY:	\$
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y	NON	ERS COMPENSATION AND					
3 2	ena a l	CYERS' LIABILITY ROPHIETOP/PARTNER/EXECUTIVE	1599162-02	10/01/02	# # t + u t	X TORY LIMITS OFF	
4 "	77 C L 198	- ALLENDER CAPTORISM		20/02/02		EL EACH ACCIDIENT	\$1,000,000
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er.	Al	l California Operat:	LES / EXCLUSIONS ADDED BY ENDORS	EMENT / SPECIAL PROVI	SIONS	5,000,000	10,000 ded
he E P	Ci cor	ty of Oakland, a min	micipal corporation,	acting by &	through in	s Board	
301 161	Le.i	onal insureds forms;	ng in the scope of to:CG2026 11/85, CG240	heir authori 4 10/93, AUT	ty are name 0133 07/99.	d Autoila	
	Fic	TE HOLDER		CANCELLATION			
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RII		Risk Management Dep 530 Water Street	partment	REPRESENTATIVES	ruon ou fiverilla o	Fany Kind Upon the Insur	ER, ITS AGENTS OR
RII		Risk Management De	partment	MINGE NO CREGA	ruon ou fiverilla o	FANY KIND UPON THE INSURE	PR ITS AGENTS OR
	O 25	Risk Management Dep 530 Water Street	partment	REPRESENTATIVES	ruon ou fiverilla o	Morroll	er, its agents or .
	25	Risk Management Dep 530 Water Street Oakland CA 94607	partment	REPRESENTATIVES	ruon ou fiverilla o	Morroll	PROPATION 185

POLICY NUMBER: GEC001144501 Greenwich Insurance Company

CG 20 26 11 85

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

ADDITIONAL INSURED - DESIGNATED PERSON OR ORGANIZATION

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

The City of Oakland, a municipal corporation, acting by and through its Board of Port Commissioners, and their officers, agents, employees, consultants and representives, while acting in the scope of their authority ARB named additional insureds.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

WHO IS AN INSURED (Section II) is amended to include as an insured the person or organization shown in the Schedule as an insured but only with respect to liability arising out of your operations or premises owned by or rented to you.

THIS ENDORSEMENT CHANGES THE POLICY. PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US

This endorsement modifies insurance provided under the following:

COMMERCIAL GENERAL LIABILITY COVERAGE PART

SCHEDULE

Name of Person or Organization:

The City of Oakland, a municipal corporation, Board of Port Commissioners, officers, agents, emp

Any person or organization that you are required in a written contract or agreement to waive any right of recovery we may have against the person or organization, provided the "bodily injury" or "property damage" occurs subsequent to the execution of the written contract or agreement.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

The TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US Condition (Section IV - COMMERCIAL GENERAL LIABILITY CONDITIONS) is amended by the addition of the following:

We waive any right of recovery we may have against the person or organization shown in the Schedule above

because of payments we make for injury or darnage arising out of your ongoing operations or "your work" done under a contract with that person or organization and included in the "products-completed operations hazard." This waiver applies only to the person or organization shown in the Schedule above.

ENDORSEMENT#

This endorsement, effective 12:01 a.m., 4/1/2003

forms a part of

Policy No. AEC001144401

issued to Dillard Trucking, inc.

by Greenwich Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY, PLEASE READ IT CAREFULLY.

AUTOMATIC ADDITIONAL INSURED

This endorsement modifies insurance provided under the following:

Business Auto Coverage Form
Garage Coverage Form
Motor Carrier Coverage Form
Truckers Coverage Form
Business Auto Physical Damage Coverage Form

LIABILITY COVERAGE, WHO IS AN INSURED is changed to include as an "insured" any person or organization you are required in a written contract ("the contract") to name as an insured (the Additional Insured), but only for "bodily injury " or "property damage" to which this insurance applies resulting from the acts or omissions of:

- 1.. You, while using a covered "auto."
- 2. Any other person, while using a covered "auto" with your permission.

The insurance provided by this endorsement shall be subject to the following additional conditions.

- The Limits of Insurance provided for the Additional Insured shall not be greater than
 those required by contract and, in no event, shall the policy Limits of Insurance be
 increased by the contract.
- All insuring agreements, exclusions, terms and conditions of the policy shall apply to the
 coverage(s) provided to the Additional Insured, and such coverage shall not be enlarged
 or expanded by reason of the contract.
- 3. Any coverage provided hereunder shall be excess over any other valid and collectible insurance available to the Additional Insured(s) whether primary, excess, contingent or on any other basis unless a contract specifically requires that this insurance be primary or you request that it apply on a primary basis prior to loss.

All other terms and conditions of this policy remain uncl

(Authorized Representative)

ENDORSEMENT#

This endorsement, effective 12:01 a.m., 4-1-03, forms a part of

Policy No. AEC001144401

issued to Dillard Trucking, Inc. and Dillard Environmental Services

by Greenwich Insurance Company

THIS ENDORSEMENT CHANGES THE POLICY PLEASE READ IT CAREFULLY.

WAIVER OF TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHER TO US

This endorsement modifies insurance provided under the following:

Business Auto Coverage Form Garage Coverage Form Motor Carrier Coverage Form Truckers Coverage Form Business Auto Physical Damage Coverage Form

The TRANSFER OF RIGHTS OF RECOVERY AGAINST OTHERS TO US Condition of the policy is amended by the addition of the following:

We waive any right of recovery we may have against the person or organization shown in the Schedule below because of payments we make for "bodily injury" or "property damage" arising out of your ongoing operations or "work you performed" under a contract with that person or organization. This waiver applies only to the person or organization shown in the Schedule below:

SCHEDULE

Name of Person(s) or Organization(s):

See Certificate of Insurance for Complete Name

Any person or organization that you are required in a written contract or agreement to waive any right of recovery we may have against the person or organization, provided the "bodily injury" or "property damage" occurs subsequent to the execution of the written contract or agreement.

(If no entry appears above, information required to complete this endorsement will be shown in the Declarations as applicable to this endorsement.)

All other terms and conditions remain the same,

(Authorized Representative)

lamen Eller

AUTO114 (07/99)

POST IN A ROONSPICUOUS PLACE

BUSINESS TAX CERTIFICATE

CITY OF DAKLAND.

The Issuing of a Business Tax Centricate is to revenue purposes only. It does not refer the texpayer from the responsibility of complying with the requirements of any other department of the City of Oakland and/or any other ordinance, law or regulation of the basis of California, of any other governments deepoy.

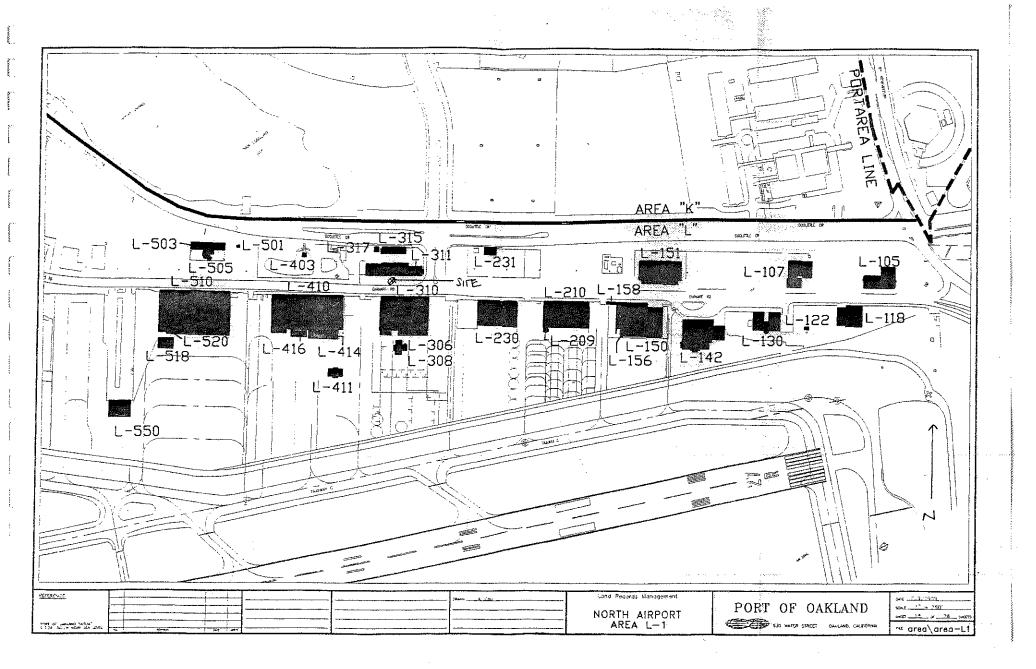
EXPIRES



PLEASE READ REVERSE SIDE

ETPINEST DECEMBER AL 2 2009

687293





Appendix B Chain-of Custody Records and Analytical Laboratory Reports



Curtis & Tompkins, Ltd., Analytical Laboratories. Since 1878

2323 Fifth Street, Berkeley, CA 9471O, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Geomatrix Consultants 2101 Webster Street 12th Floor Oakland, CA 94612

Date: 19-OCT-03

Lab. Job Number: 167885

Project ID: 8207.005

Location: Port of Oakland

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

Project Manager

Reviewed by:

Operations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

SOP Volume:

Client Services

Section:

1.1.2

Page:

l of l

Effective Date:

10-May-99

Revision:

1 Number 3 of 3

Filename:

F:\QC\Forms\QC\Cooler.wpd

COOLER RECEIPT CHECKLIST

Curtis & Tompkins, Ltd.

Date Opened: 1/20/2 By (print): 1/20/2 [Art Color Company of the State Color Company of the State Color Colo	Α.	Preliminary Examination Phase Date Opened: 9/30/63 By (print): Ptox Place (sign)	
If YES, enter carrier name and airbill number:		Date Opened: 4/30/6 By (print). 41 leke 1/10 (organization)	YES NO
Were custody seals on outside of cooler? Seal date: Seal name: How many and where? Seal date: Seal name: Were custody seals unbroken and intact at the date and time of arrival? YES NO Were custody papers dry and intact when received? YES NO Were custody papers filled out properly (ink, signed, etc.)? YES NO VIES NO Did you sign the custody papers in the appropriate place? YES NO YES NO Was project identifiable from custody papers? YES NO If YES, enter project name at the top of this form. If required, was sufficient ice used? Samples should be 2-6 degrees C. YES NO Type of ice: Temperature: YES NO Type of ice: Temperature: YES NO YES NO Did all bottles arrive unbroken? YES NO YES NO Did bottle labels agree with custody papers? YES NO YES NO Were appropriate containers used for the tests indicated? YES NO Were appropriate containers used for the tests indicated? YES NO Were sufficient amount of sample sent for tests indicated? YES NO Was sufficient amount of samples? If NO, list sample Ids below. YES NO Were bubbles absent in VOA samples? If NO, list sample Ids below. YES NO If YES, give details below. By whom? Date: Date	1.		
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1. Describe type of packing in cooler:	-	Tarin Phose	2. 50485
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		Who was called? By whom?	Date:
Additional Comments:		AA HO AATTA	
Additional Commons		tional Comments:	
	Auui	HORIAL COMMITTEE	
Rev. 1, 4/95			the state of the s



Total Volatile Hydrocarbons Lab #: 167885 Location: Port of Oakland Client: Geomatrix Consultants Prep: EPA 5030B Project#: 8207.005 Analysis: 8015B Matrix: Soil Batch#: 84934 Units: mg/Kg Sampled: 09/30/03 Basis: as received Received: 09/30/03 Diln Fac: 1.000

Field ID: Type: DIES-093003-2

SAMPLE

Lab ID:

167885-001

Analyzed:

10/02/03

Analyte	Result	RL	3
Gasoline C7-C12	ND	1.1	1

Surrogate %REC Limits	
Trifluorotoluene (FID) 100 56-144	
Bromofluorobenzene (FID) 114 51-142	

Field ID:

PIPE1-093003-2 SAMPLE

Lab ID:

167885-002

Type: SAMPLE

Analyzed:

10/02/03

Anaivte (Normania)	Result :	RD	The property of the Contract o
ALLOT V LC.	5 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		\$126000 \$15.600.00 A65.00 A65.00 A600.00 A
	Result		0 9009000 ABON 900 90 ABON BARAN 94 ABON 95 AB
Gasoline C7-C12		1,17,111, 111,111,111	
- EGASOTINA C7-C12	n ⊃	7 +	
TORROTTING C. CIZ	T. 3	1 1	•
	_ · ·	and a set	1

Surrogate	%RF	C Limits
Trifluoroțoluene (FID)	106	56-144
Bromofluorobenzene (FID)	113	51-142

Type: Lab ID: BLANK

QC227364

Analyzed:

10/01/03

Analyte	Result &	RL:	
Gasoline C7-C12	ND	0.20	

Surrogate	&REC.	Limits	
Trifluorotoluene (FID)	89	56-144	
Bromofluorobenzene (FID)	112	51-142	1
	address of a second		

ND= Not Detected RL= Reporting Limit Page 1 of 1



·			ons	
Lab #:	167885	Location:	Port of Oakland	,,,,,,
Client:	Geomatrix Consultants	Prep:	EPA 5030B	
Project#:	8207.005	Analysis:	8015B	`
Type:	LCS	Basis:	as received	
Lab ID:	QC227366	Diln Fac:	1.000	1
Matrix:	Soil	Batch#:	84934	7
Units:	mg/Kg	Analyzed:	10/01/03	

Analyte	Shrked.	. Kesulu	2000	The High of the state of the st	-
Gasoline C7-C12	10.00	9.870	99	80~120	ĹĹ
The state of the s	and the second s	tanta di managan da anta			-1

SEC.	Surroga	te	%REC.	Limits	; ;
Trif	luorotoluene	(FID)	100	56-144	5-
	nofluorobenzen	e (FID)	112	51-142	

GC07 TVH 'A' Data File RTX 502

Sample Name : 167885-002,84934.tvh opnly

FileName : G:\GC07\DATA\274A030.raw Method : TVHBTXE

Start Time : 0.00 min

Scale Factor: 1.0

End Time : 26,00 min

Plot Offset: 9 mV

Sample #: a

Page 1 of 1

Date: 10/2/03 09:03 AM

Time of Injection: 10/2/03 02:33 AM

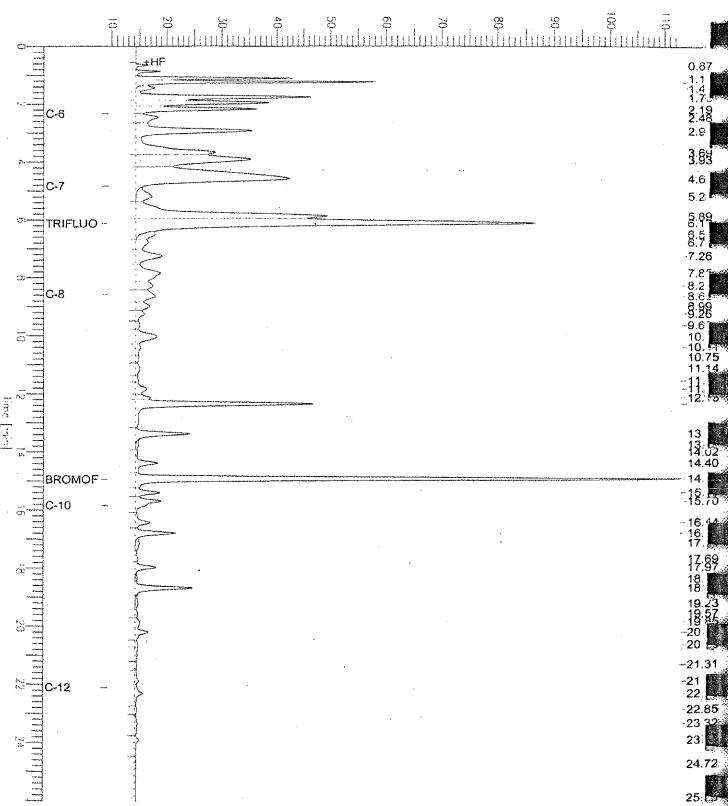
Low Point : 9.34 mV

High Point : 112.89 mV

Plot Scale: 103.6 mV

PIPE 1-093003-Z

Response [mV]



GC07 TVH 'A' Data File RTX 502

ample Name : ccv/lcs,qc227366,84934,03ws1335,5/5000

ileName : g:\gc07\data\274a003.raw

: TVHBTXE ethod

Start Time : 0.00 min Scale Factor: 1.0

End Time : 26.00 min Plot Offset: 1 mV

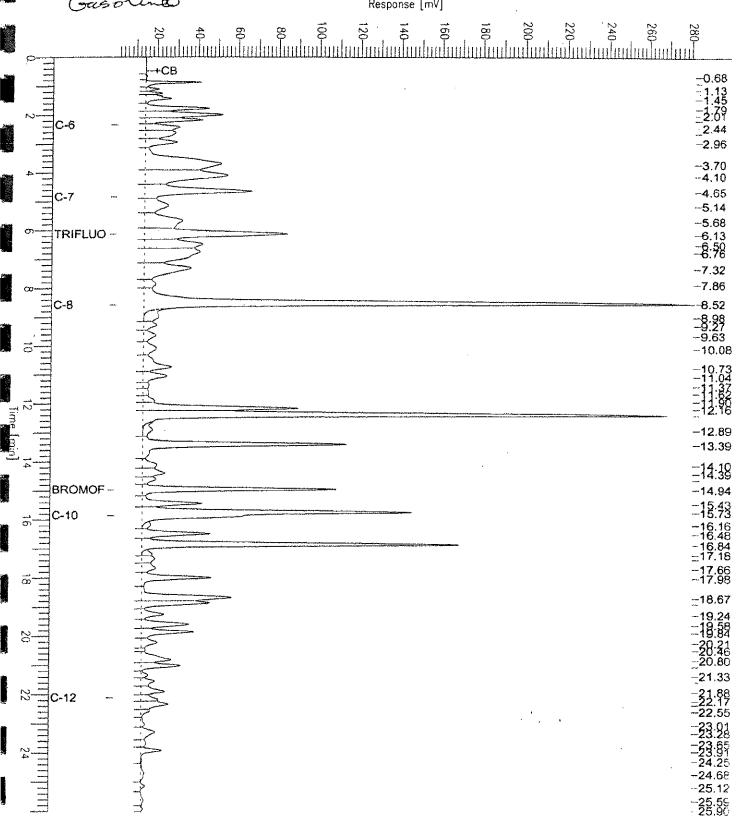
Sample #: Page 1 of 1 Date: 10/1/03 01:11 PM

Time of Injection: 10/1/03 10:19 AM

Low Point : 0.93 mV High Point : 281.23 mV

Plot Scale: 280.3 mV

Gasolino Response [mV]





	Total Vola	tile Hydrocarbo	ons.
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	- EPA 5030B
Project#:	8207.005	Analysis:	8015B
Field ID:	222222222	Diln Fac:	1.000
MSS Lab ID:	167858-003	Batch#:	84934
Matrix:	Soil	Sampled:	09/29/03
Units:	mg/Kg	Received:	09/29/03
Basis:	as received	Analyzed:	10/01/03

Type:

MS

Lab ID:

QC227420

Analyte	MSS Result	Spiked	Result %R	EC Tamirs
Gasoline C7-C12	<0.09900	10.20	6.675 65	24-134
The state of the s				

Surrogate	%REC	C Limits
Trifluorotoluene (FID)	107	56-144
Bromofluorobenzene (FID)	119	51-142

Type:

MSD

Lab ID:

QC227563

Gasoline C7-C12	10.00	6.584	66	24-134	1 32
Trifluorofoluene (FID)	%REC Limits				

Surrogate	%REC	Limits
Trifluorotoluene (FID)	107	56-144
Bromofluorobenzene (FID)	118	51-142



Total Extractable Hydrocarbons Location: Port of Oakland Lab #: 167885 SHAKER TABLE Client: Geomatrix Consultants Prep: EPA 8015B Project#: 8207.005 Analysis: 09/30/03 Matrix: Soil Sampled: 09/30/03 Received: Units: mg/Kg 10/01/03 Basis: as received Prepared: 10/02/03 Diln Fac: 1.000 Analyzed: 84980 Batch#:

Field ID:

DIES-093003-2

Type: SAMPLE

Lab ID:

167885-001

Cleanup Method: EPA 3630C

Analyte Diesel C10-C24 Result

34 H Y

0.99

RL

Surrogate \$REC Limits
Hexacosane 76 36-141

Field ID:

PIPE1-093003-2

Type:

SAMPLE

Lab ID:

167885-002

Cleanup Method: EPA 3630C

Analyte
Diesel C10-C24

Result

9.6 H Y

RL

0.99

Surrogate REC Limits
Hexacosane 88 36-141

Type: Lab ID: BLANK

QC227537

Cleanup Method: EPA 3630C

Diesel C10-C24

Result

: EFA 3030C

Surveyste \$DEC Timits

Surrogate *REC Limits
Hexacosane 62 36-141

H= Heavier hydrocarbons contributed to the quantitation

Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected

RL= Reporting Limit

Page 1 of 1

4.

Cnromatogram

Sample Name : 167885-001sg,84980 FileName : G:\GC13\CHB\275B015.RAW

Method

Start Time : 0.01 min Scale Factor: 0.0

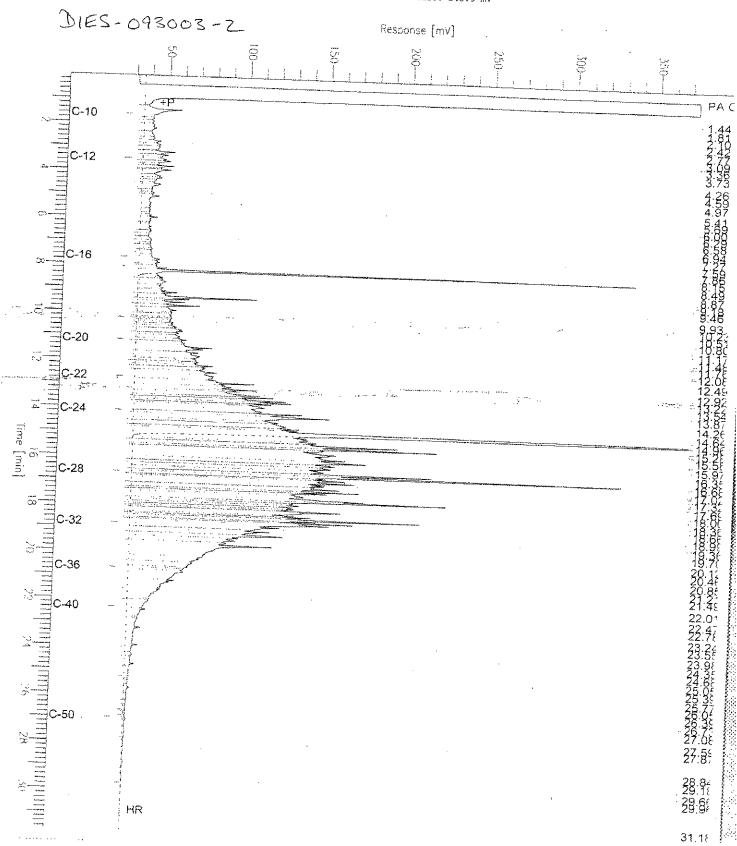
End Time : 31.91 min Plot Offset: 28 mV

Page 1 of 1

Sample #: 84980 Date : 10/3/03 09:12 AM

Time of Injection: 10/2/03 08:50 PM Low Point : 27.66 mV Plot Scale: 345.9 mV

High Point: 373.59 mV



Chromatogram

Sample Name : 167885-002sg,84980
FileName : G:\GC11\CHA\274A028.RAW
Method : ATEH272.MTH

Method

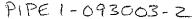
Start Time : 0.01 min Scale Factor: 0.0 Scale Factor:

End Time : 31.91 min Plot Offset: 23 mV

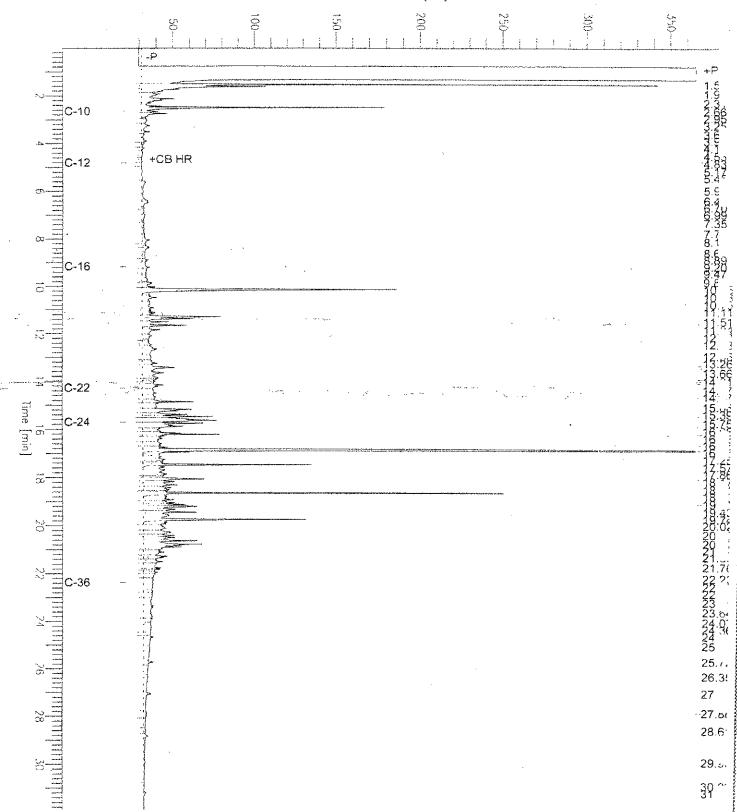
Page 1 of 1

Sample #: 84980 Date : 10/2/03 12:27 PM

Time of Injection: 10/2/03 11:46 AM
Low Point: 22.55 mV High Pc
Plot Scale: 342.5 mV High Point : 365.08 mV







Chromatogram

mple Name : ccv,03ws1374,dsl

: G:\GC13\CHB\274B002.RAW leName

portise : BTEH264.MTH

Start Time : 0.01 min "hale Factor: 0.0

End Time : 31.91 min Plot Offset: 25 mV

Sample #: 500mg/L Date : 10/1/03 10:25 AM

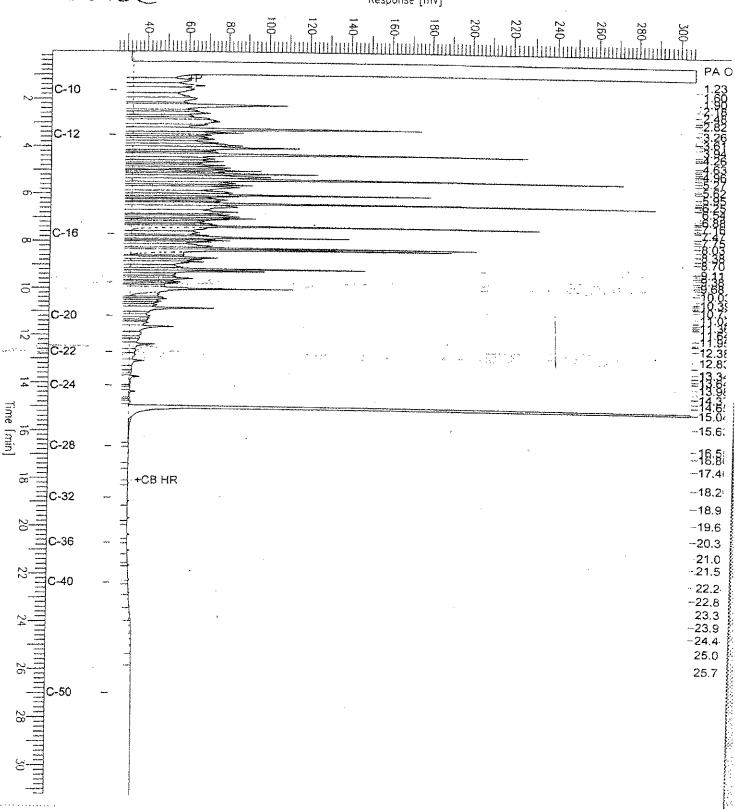
Time of Injection: 10/1/03 09:50 AM

Low Point : 24,66 mV Plot Scale: 281.8 mV High Point: 306.45 mV

Page 1 of 1



Response [mV]





	Total Extra	ctable Hydrocai	bons
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	SHAKER TABLE
Project#:	8207.005	Analysis:	EPA 8015B
Type:	LCS	Diln Fac:	1.000
Lab ID:	oc227538	Batch#:	84980
Matrix:	Soil	Prepared:	10/01/03
Units:	mg/Kg	Analyzed:	10/02/03
Basis:	as received		

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	*REC	2 Limits	
Diesel C10-C24	49.71	33.67	68	49-129	

Surrogate	*REC	Limits
Hexacosane	56	36-141



Total Extractable Hydrocarbons Lab #: 167885 Location: Port of Oakland Client: Geomatrix Consultants SHAKER TABLE Prep: Project#: 8207.005 Analysis: EPA 8015B Field ID: PIPE1-093003-2 Batch#: 84980 MSS Lab ID: 167885-002 Sampled: 09/30/03 Matrix: Soil Received: 09/30/03 Units: mg/Kg Prepared: 10/01/03 Basis: as received Analyzed: 10/02/03 Diln Fac: 1.000

Type:

Cleanup Method:

EPA 3630C

Lab ID:

QC227539

Analyte	MSS Result	Spiked	Result	%RE	C Limits
Diesel Cl0-C24	9.555	49.75	48.09	77	32-134

Surrogate	%REC	Limits	
Hexacosane	83	36-141	

Type:

MSD

Cleanup Method: EPA 3630C

Lab ID:

QC227540

Anal	yte Spiked	Result	%REC	Limits	RPD	Lim
Diesel C10-C24	49.68	36.33	54	32-134	28	48

Surrogate	%REC	Limits	
Hexacosane	64	36-141	The state of the s



	Purgeable	Aromatics by GO	:/Ms
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.005	Analysis:	EPA 8260B
Field ID:	DIES-093003-2	Diln Fac:	1,000
Lab ID:	167885-001	Batch#:	85022
Matrix:	Soil	Sampled:	09/30/03
Units:	ug/Kg	Received:	09/30/03
Basis:	as received	Analyzed:	10/02/03

MTBE	5.3	5.0	
Benzene	38	5.0	
Toluene	ND	5.0	
Ethylbenzene	ND	5.0	,
m,p-Xylenes	ND .	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	Limits	i salita ka	
1,2-Dichloroethane-d4	104	76-130		<u> </u>
Toluene-d8	98	80-120		
Bromofluorobenzene	. 94	76-125		

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Purgeable	Aromatics by Go	C/MS
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.005	Analysis:	EPA 8260B
Field ID:	PIPE1-093003-2	Diln Fac:	0.9091
Lab ID:	167885-002	Batch#:	85022
Matrix:	Soil	Sampled:	09/30/03
Units:	ug/Kg	Received:	09/30/03
Basis:	as received	Analyzed:	10/02/03

MTBE	ND	4.5	*****
Benzene	. 36	4.5	
Toluene	ND	4.5	
Ethylbenzene	5.2	4.5	
m,p-Xylenes	40	4.5	
o-Xylene	11	4.5	

76-130	200
	#* · · ·
30-120	1
76-125	A superior
,	76-125



	Purgeable	Aromatics by GC	2/MS
Lab #:	167885	Location:	Port of Cakland
Client:	Geomatrix Consultants	Prep:	EPA 5030B
Project#:	8207.005	Analysis:	EPA 8260B
Type:	BLANK	Basis:	as received
Lab ID:	QC227696	Diln Fac:	1.000
Matrix:	Soil	Batch#:	85022
Units:	ua/Ka	Analyzed:	10/02/03

MTBE	ND	5.0	
Benzene	CIM	5.0	
Toluene	ND	5.0	
Ethylbenzene	ND ·	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%RE	C Limits	Markan official lander	4
1,2-Dichloroethane-d4	104	76-130		
Toluene-d8	98	80-120		
Bromofluorobenzene	94	76-125	-	

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Purgeable	Aromatics by Go	#한 등록 보다는 경우를 하면 하면 하면 하는 것이 없는 것이 없는 것이 없는 것이 없는 것이다.
Lab #: Client: Project#:	167885 Geomatrix Consultants 8207.005	Location: Prep: Analysis:	Port of Oakland EPA 5030B
Type: Lab ID; Matrix: Units:	LCS QC227695 Soil ug/Kg	Basis: Diln Fac: Batch#: Analyzed:	EPA 8260B as received 1.000 85022 10/02/03

Analyte	Spiked	Result	1 (1) (3 0.41 L. L.		
Benzene	50.00			Limits	
Toluene	50.00	42.52	85	78-120	
	50.00	44.10	88	79-120	}

Surrogate	%RI	PC Limits
1,2-Dichloroethane-d4	98	76-130
Toluene-d8	99	80-120
. Bromofluorobenzene	88	76-125



Purgeable Aromatics by GC/MS							
Lab #:	167885	Location:	Port of Oakland				
Client:	Geomatrix Consultants	Prep:	EPA 5030B				
Project#:	8207.005	Analysis:	EPA 8260B				
Field ID:	272222222	Diln Fac:	0.9804				
MSS Lab ID:	167903-006	Batch#:	85022				
Matrix:	Soil	Sampled:	10/01/03				
Units:	ug/Kg	Received:	10/01/03				
Basis:	as received	Analyzed:	10/02/03				

Type:

MS

Lab ID:

QC227727

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	<0.3900	49,02	40.28	82	55-12:
Toluene	<0.4800	49.02	41.00	84	44-12!

	Surrogate Surrogate	%REC	Limits	ADAMAKA			·
1	1,2-Dichloroethane-d4	100	76-130	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	Toluene-d8	99	80-120				
	"Bromofluorobenzene	87	76-125		 	,	

Type:

MSD

Lab ID:

. QC227728

Analyte	Spiked	Result	%RE(Limits	RPD	Lim
Benzene	49.02	39.83	81	55-121	1	20
Toluene	49.02	39.89	81	44-129	3	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76~130
Toluene-d8	98 .	80-120
Bromofluorobenzene	88	76-125



		Lead	
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3050
roject#: malyte:	8207.005	Analysis:	EPA 6010B
atrix:	Lead	Batch#:	85008
nits:	Soil mg/Kg	Sampled:	09/30/03
asis:		Received:	09/30/03
iln Fac:	as received	Prepared:	10/02/03
TIU FAC:	1.000	Analyzed:	10/03/03

Field ID	Type L	ab ID	Result		
DIES-093003-2	SAMPLE 167	885-001	5,2	RH O TA	
PIPE1-093003-2	SAMPLE 167	885-002	4.3	0.14 0.15	
	BLANK QC2	27632	ND	0.15	
		, , , , , , , , , , , , , , , , , , ,	· · · · · · · · · · · · · · · · · · ·	V + 4 J	



		Lead	
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.005	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Matrix:	Soil	Batch#:	85008
Units:	mq/Kg	Prepared:	10/02/03
Basis:	as received	Analyzed:	10/03/03

TVDE	Lab ID	Spiked	Result	%REC	: Limits	RPD	Lim	
BS	QC227633	100.0	90.50	91	71-120			1
BSD	QC227634	100.0	89.00	89	71-120	2	20	



		Lead	
Lab #:	167885	Location:	Port of Oakland
Client:	Geomatrix Consultants	Prep:	EPA 3050
Project#:	8207.005	Analysis:	EPA 6010B
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	85008
MSS Lab ID:	167872-001	Sampled:	09/26/03
Matrix:	Soil	Received:	09/30/03
Units:	mg/Kg	Prepared:	10/02/03
Basis:	as received	Analyzed:	10/03/03

Type	a Lab ID	MSS Result	Spiked	Result	%RE	C Limits	RPD Lim
MS	QC227635	5.755	98.04	82.35	78	23-137	(4)) - (
MSD	QC227636		93.90	80.28	79	23-137	2 40

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			180	-41		 			A	NAL	YSI	ES												REMARKS
	8207	005		<u> </u>	-1								M	60	T	T		1						Additional Comments
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			ethod can)	ethod OCs o	athod only)	ethod	lethod can)	tethod >AHS	d 801	108 p	Method 8015m (Motor Oil)	Silica Gel Cleanup	BTEX	LEAD		ľ			Soil (S), Water Vapor (V), or C	Filtered	Preserved	Cooled	No. of Containers	OAKLAND DIRECTLY
Date	Time	Sample Number	EPA Method 8021 (Fuli Scan)	EPA V	EPA N (BETX	EPA Method 8260	Ful S	SIM	Metho	Metho	Meth	Silica	5	7		_		_		<u>#</u>	Pres	Š	<u>0</u>	
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1 30 03	1	PIPE 1.093003-2							\times	\times			X	\times					5	_	_	7		
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Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Geomatrix Consultants 2101 Webster Street 12th Floor Oakland, CA 94612

Date: 10-OCT-03

Lab Job Number: 167716

Project ID: 8207.005

Location:

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

Project Manager

Reviewed by:

Operations Manager

This package may be reproduced only in its entirety.

NELAP # 01107CA

Page 1 of <u>51</u>



Laboratory Number: 167716 Client: Geomatrix Consultants

Project#: 8207.005

Location: Port of Oakland

Receipt Date: 09/22/03

CASE NARRATIVE

This hardcopy data package contains sample and QC results for one water and four soil samples that were received on September 22, 2003. The samples were received cold and intact.

TPH-Purgeables/BTEX by EPA 8015B/8021

No analytical problems were encountered.

TPH-Extractables by EPA 8015B

All extracts were silica gel cleaned prior to analysis. The soil matrix spike duplicate recovery and the relative percent difference were outside of acceptance limits. This outlier can be attributed to non-homogeneity of the matrix spike sample, which was not from this Project. The associated laboratory control sample met acceptance criteria.

No other analytical problems were encountered.

Volatile Organics by EPA 8260B

No analytical problems were encountered.

California Title 26 Metals by EPA 6020/7470A

The chromium, copper, and nickel matrix spike and matrix spike duplicate recoveries were considered not meaningful because the concentration of these elements in the matrix spike sample was twice the spiked amounts. The associated blank spike and blank spike duplicate met acceptance criteria.

No other analytical problems were encountered.

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SOP Volume: Section:

Client Services

1.1.2

1 of 1

Page: 1 of 1 Effective Date: 10-May-99

Revision:

1 Number 3 of 3

Filename:

F:\QC\Forms\QC\Cooler.wpd



gin#	: \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
ent:	Apomatrix Project: 8207.003
	Preliminary Examination Phase
	Preliminary Examination Phase Date Opened: 9-22-63 By (print): 199 Windsor (sign) June West NO ith a bisping elip (airbill letc.)? YES NO
	Tail and acome that a complete and test only
	* 1ida of poolet/
	1 1 1
	A 4 4 4 3 4 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A 5 4 A
	Was project identifiable from custody papers.
	To see the second secon
	Type of ice: Ve Temperature: 4.5
	· · · · · · · · · · · · · · · · · · ·
	Login Phase
	Date Logged In: 177 By (print): 107 VV 110 July (Sign)
*	Login Phase Date Logged In: 9-22-03 By (print): Toy Windsw (sign) My 4 MMM Describe type of packing in cooler: 1 2:0101 hags WES NO
	Did all bottles arrive unbroken?
	Were labels in good condition and complete (1D, date, time, signature, VES NO Did bottle labels agree with custody papers?
	Were appropriate containers used for the tests indicated YES NO
·.	Were appropriate containers used for the tests indicated: Were correct preservatives added to samples?
٠.	Was sufficient amount of sample sent for tests indicated with the NO Were bubbles absent in VOA samples? If NO, list sample Ids below
}.	Were bubbles absent in VOA samples? If NO, list sample has sold with the NO Was the client contacted concerning this sample delivery?
).	Was the client contacted concerning this sample denvery
	If YES, give details below.
	Who was called? By whom? Date:
	·
Addi	itional Comments: ONLY 3 SOUS FOR TVH & BOZOMS
7-	gnly 3 sous for 11 & 500411



	Total Vola	Tile Hydrocarbo	
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	8015B
Project#:	8207.005	7	90430
Field ID:	GW-092203-1	Batch#:	84734
Matrix:	Water	Sampled:	09/22/03
Units:	\mathtt{ug}/\mathtt{L}	Received:	09/22/03
Diln Fac:	1.000	Analyzed:	09/22/03

Type:

SAMPLE

Lab ID:

167716-005

Analyte	Result	and the second Richard Control	
Gasoline C7-C12	1,100 H	50	ACTUAL STATE OF SELECTION
		20	
Surrogate	SRRC Winder		

Surrogate	%REC	Limits	
Trífluorotoluene (FID)	109	57-150	
 Brömofluorobenzene (FID)	114	65-144	*
	Part of the last o	**************************************	and the second s

Type:

BLANK

Bromofluorobenzene (FID)

Lab ID:

QC,226564

Analyte		Result	P T	্র ভাশ
Gasoline C7-C12	NI)	50	4
Surrogate	%REC	Limits		্ৰ
Trifluorotoluene (FID)	113	57-150	The state of the s	4

65-144

H= Heavier hydrocarbons contributed to the quantitation ND= Not Detected RL= Reporting Limit Page 1 of 1

124



	Total Vola	tile Hydrocarbo	ons
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	8015B
Project#:	8207.005		
Type:	LCS	Diln Fac:	1,000
Lab ID:	QC226565	Barch#:	84734
Matrix:	Water	Analyzed:	09/22/03
Units:	ug/L		

Analyte	Spiked	All the Result of which	%REC	Limits]
Gasoline C7-C12	2,000	2,018	101	80-120	_]

Surrogate	%REC	Limits	1
Trifluorotoluene (FID)	129	57-150	
Bromofluorobenzene (FID)	129	65-144	

and the second of the second o



	Total Vola	tile Hydrocarbo	116
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 5030B 8015B
Project#: Field ID: MSS Lab ID: Matrix: Units:	8207.005 ZZZZZZZZZZ 167713-001 Water ug/L 1.000	Batch#: Sampled: Received: Analyzed:	84734 09/22/03 09/22/03 09/22/03

Type:

MS

Lab ID: QC226566

Analyte	MSS Result	Spiked	Result	%REC	Limits
	12.60	2,000	1,970	98	76-120
Gasoline C7-C12	74.00				

Surrogate	%REC Limits	
Trifluorotoluene (FID) Bromofluorobenzene (FID)	128 57-150 125 65-144	

Type : MSD

	Spiked	Result	*REC	Limits	RPD	Lim
L	2,000	1,934	96	76-120	2	20
Gasoline C7-Cl2						

Surrogate	% REC	Limits
Trifluorotoluene (FID)	128	57-150
Bromofluorobenzene (FID)	122	65-144



Total Volatile Hydrocarbons EPA 5030B Prep: 8015B Lab #: Analysis: Geomatrix Consultants Client: 8207.005 84701 Project#: Batch#: Soil 09/22/03 Matrix: Sampled: mg/Kg 09/22/03 Received: Units: as received 09/22/03 Analyzed: Basis: 1.000 Diln Fac:

Field ID:

والمارا والمراوات والمراوين والمراوي ويروي ويوال والمراوي ويراوي

BACKFILL-092203-1

Lab ID:

167716-001

Type:

SAMPLE

	Result	RL	
Analyte	ND	1.1	
Gasoline C7-C12	INT		

L				TARCES SERVICES OF A CONTRACT	가는 다른 선생님은 사람들은 선생하는 없다.	CONTRACT CONTRACT	į
		REC	Limits				ĺ
ſ	Surrogate	0.7	56-144				
١	Trifluorotoluene (FID)	21	51-142				į
- [Bromofluorobenzene (FID)	114	04-4-4		· ·		
- 1	DI OIROX X GO				*- " .		

Field ID:

T2-N-092203-1

Lab ID:

167716-002

Type:

SAMPLE

			RL	
-de-	Ana	lyte Result	1.0	
				•
	Gasoline C7-C1	Zi	•	

1	Gasorrite			
	Surrogate	%REC I	Limits	
	342 # 4 5	96	56-144	
	Trifluorotoluene (FID)	114 5	51-142	The state of the s
	Bromofluorobenzene (FID)		**************************************	

Field ID:

T1-N-092203-1

SAMPLE

Lab ID:

167716-003

Type:

City same in .	C: 2.12			
Type:		•		A Company of the Comp
- 3 L			RL 1.1	经存款 医大大氏征 经工程的复数 化铁矿铁铁铁矿 化二十二烷
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		N(1)		
	030	,		
1 1	ing ("Inl')			
1 (3880)	ine C7-C12			
00000			- 14	

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	Surrogate	%REC	Limits
	Trifluorotoluene (FID)	102	56-144
	Bromofluorobenzene (FID)	124	51-142
	Bromotiudion		

ND= Not Detected RL= Reporting Limit Page 1 of 2

1.0



7 - 3 1 A 型路 经股份管辖 Total Volatile Hydrocarbons Lab #: 167716 Prep: EPA 5030B Client: Geomatrix Consultants Analysis: 8015B Project#: B207.005 Matrix: Soil Batch#: 84701 Units: mg/Kg Sampled: 09/22/03 Basis: as received Received: 09/22/03 Diln Fac: 1.000 Analyzed: 09/22/03

Field ID:

Type:

T2-5-092203-1

SAMPLE

Lab ID:

167716-004

The state of the s			
Analyte	[2] A. J. W. M. Martin, Phys. Lett. 85 (1971) 146 (1971).		
i migrate	Kesule	RL	SALAN A GRAN WELL THE THE
			医多种 化二甲基苯基甲基苯基甲基
Gasoline C7-C12	MTO		
1 9000 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	NL	1 0	
		± 1 0	
	7-11-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-		1

Surrogate	%RBC Limits	#200000 proj - w - 1
Trifluorotoluene (FID)	103 56-144	
- Bromofluorobenzene (FID)	122' - 51-142 - "	1

Type:

STATE OF SHAPE WITHOUT AND AND A SHAPE SHAPE

BLANK

Lab ID:

QC226471

amary te	Result	RL	
Gasoline C7-C12	MD		
	145	1.0	
Champaganaha		The state of the s	

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	97	56-144	
Bromofluorobenzene (FID)	110	51-142	
			1

ND= Not Detected RL= Reporting Limit Page 2 of 2



a a e e e e e e e e e e e e e e e e e e	Total Vola	tile Hydrocarbo	ns
Lab #: Client:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 5030B 8015B
Project#: Type: Lab ID: Matrix: Units:	LCS QC226472 Soil mg/Kg	Basis: Diln Fac: Batch#: Analyzed:	as received 1.000 84701 09/22/03

7 7 6	Spiked	Result	%REC	Limits	
***************************************	5,000	5,272	105	80-120	
Gasoline C7-C12	5,000	2,476			

Ī	Surrogate	%REC	Limits
١	Trifluorotoluene (FID)	106	56-144
	Bromofluorobenzene (FID)	112	51-142



	Total Vola	tile Hydrocarbo)ne
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	8015B
Project#:	8207.005		
Field ID:	ZZZZZZZZZZZ	Diln Fac:	1,000
MSS Lab ID:	167711-001	Batch#:	84701
Matrix:	Soil	Sampled:	09/22/03
	mq/Kq	Received:	09/22/03
Units:	as received	Analyzed:	09/22/03

Type:

MS

Lab ID:

QC226553

2521-762	S Result	Spiked	Result	%RE	C Limits
Gasoline C7-C12	0.1229	10.42	10.27	97	24-134

i i i	urrogate	*REC	Limits				
Trifluoroto	luene (FID)	131	56-144				
	benzene (FID)	139	51-142	 	 	. , 12	

Type: MSD

Lab ID:

QC226554

Analyte Spiked Result	Limits	RPI) Lim
Gasoline C7-C12 10.53 10.73	24-134	3	32

Surrogate	%REC	Limits
Trifluorotoluene (FID)	132	56-144
Bromofluorobenzene (FID)	1.40	51-142



Total Extractable Hydrocarbons EPA 3520C 167716 Prep: Lab #: Analysis: EPA 8015B Geomatrix Consultants Client: Project#: 8207.005 09/22/03 Sampled: Field ID: GW-092203-1 09/22/03 Received: Matrix: Water .09/23/03 Prepared: Units: ug/L Analyzed: 09/24/03 84753 Batch#:

Type:

SAMPLE

Lab ID:

167716-005

Diln Fac:

Cleanup Method: EPA 3630C

Analyte	Result	RL	
Diesel C10-C24	54,000	500	

%REC Limits Surrogate 44-146 Hexacosane

Type:

BLANK

Diln Fac:

1.000

QC226633 Lab ID:

Cleanup Method: EPA 3630C

	Dens-14	DT	Matrix M is the state of the state of M in M in M in M is the state of M in M
WEG T.X	re 10341.		
53 - 1 CT 6 CT 6	ND		and the second of the second o
DIASA CHU-UZ4	IND.		• •

%REC Limits Surrogate Hexacosane 79 44-146

DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 1 of 1

Sample Name: 167716-005sg,84753

FileName : G:\GC13\CHB\266B037.RAW

Method : BTEH264.MTH

Start Time : 0.01 min Scale Factor: 0.0

End Time : 31.91 min

Plot Offset: 24 mV

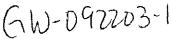
Page 1 of 1

Sample #: 84753 Date : 9/24/03 12:56 PM

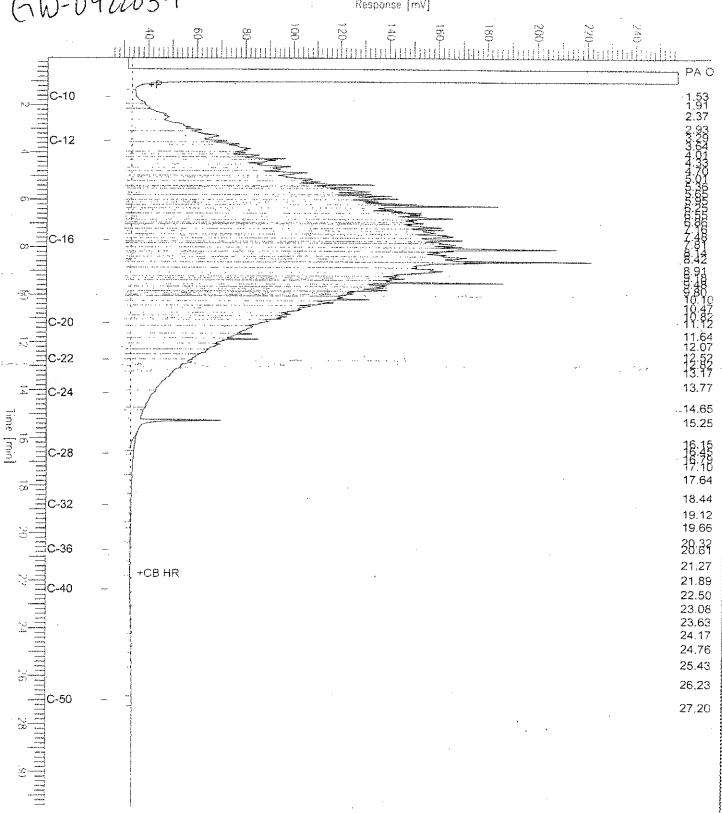
Time of Injection: 9/24/03 12:20 PM

High Point : 257.36 mV

Low Point : 24.40 mV Plot Scale: 233.0 mV



Response [mV]



Sample Name : ccv.03wel374.del FileName : G:\GCl3\CHB\266B002.RAW

: BTEH264.MTH Method

Start Time : 0.01 min

End Time : 31.91 min Plot Offset: 29 mV

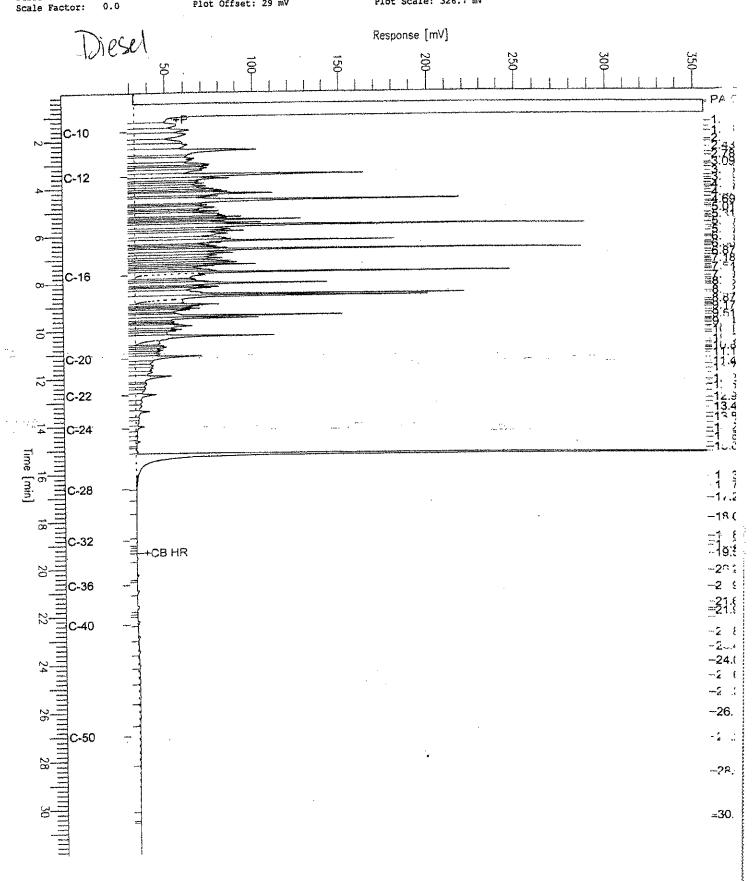
Sample #: 500mg/L Date : 9/23/03 10:29 AM

Time of Injection: 9/23/03 09:45 AM

Low Point : 28.76 mV Plot Scale: 326.7 mV

High Point : 355.45 mV

Page 1 of 1





Total Extractable Hydrocarbons Lab #: 167716 Prep: EPA 3520C Client: Geomatrix Consultants Analysis: EPA 8015B Project#: 8207.005 Matrix: Water Batch#: 84753 Units: ug/L Prepared: 09/23/03 Diln Fac: 1.000 Analyzed: 09/24/03

Type:

BS

Cleanup Method: EPA 3630C

Lab ID:

QC226634

Analyte	Spiked	Rasult	%RE		
Diesel Cl0-C24	2,500	2,213	89	38-137	

Surrogate	%REC	Limits	
Hexacosane	92	44-146	

Type:

Cleanup Method: EPA 3630C

Lab ID:

QC226635

	and the second s				
Analyte	Spiked	Result	% REC	Limits R	PD Tilm
					Salar Sa
Diegel CIN-C24	2 500	1 700	7つ	38-137 2	1 25

Surrogate	%REC	Limits	
Hexacosane	75	44-146	•



Total Extractable Hydrocarbons SHAKER TABLE Lab #: Client: Geomatrix Consultants Analysis: EPA 8015B Project#: 8207.005 09/22/03 09/22/03 09/22/03 Sampled: Matrix: mg/Kg Units: Received: Prepared: Basis: as received 1.000 Analyzed: 09/23/03 Diln Fac: Batch#: 84726 BACKFILL-092203-1 Lab ID: 167716-001 Field ID: SAMPLE Cleanup Method: EPA 3630C Type: Analyte 1.7 H Y 1.0 Diesel Clo-C24 %REC Limits Surroqate Hexacosane 167716-002 T2-N-092203-1 Lab ID: Field ID: SAMPLE Cleanup Method: EPA 3630C Type: Analyte 1.0 18 H Y Diesel Cl0-C24 %REC Limits Surrogate 36-141 Hexacosane Lab ID: 167716-003 Field ID: T1-N-092203-1 Cleanup Method: EPA 3630C SAMPLE Type: Analyte Diesel C10-C24 90 H Y 1.0 Surrogate Limits 82 Hexacosane 36-141 167716-004 EPA 3630C T2-S-092203-1 Lab ID: Field ID: Cleanup Method: SAMPLE Type: Result 8.2 H Y Analyte Ana Diesel C10-C24 1.0 Limits Surrogate Hexacosane 36-141 Type: Lab ID: BLANK Cleanup Method: EPA 3630C QC226538 Analyte Diesel C10-C24 Result RB ND 1.0 %REC Limits Surrogate. H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard
ND= Not Detected RL= Reporting Limit Page 1 of 1

Sample Name: 167716-001sg,84726

FileName : G:\GC17\CHA\266A006.RAW

: ATEH262.MTH Method

Start Time : 0.09 min Scale Factor: 0.0

End Time : 31.91 min

Plor Offset: 22 mV

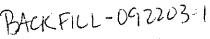
Sample #: 84726

Page 1 of 1

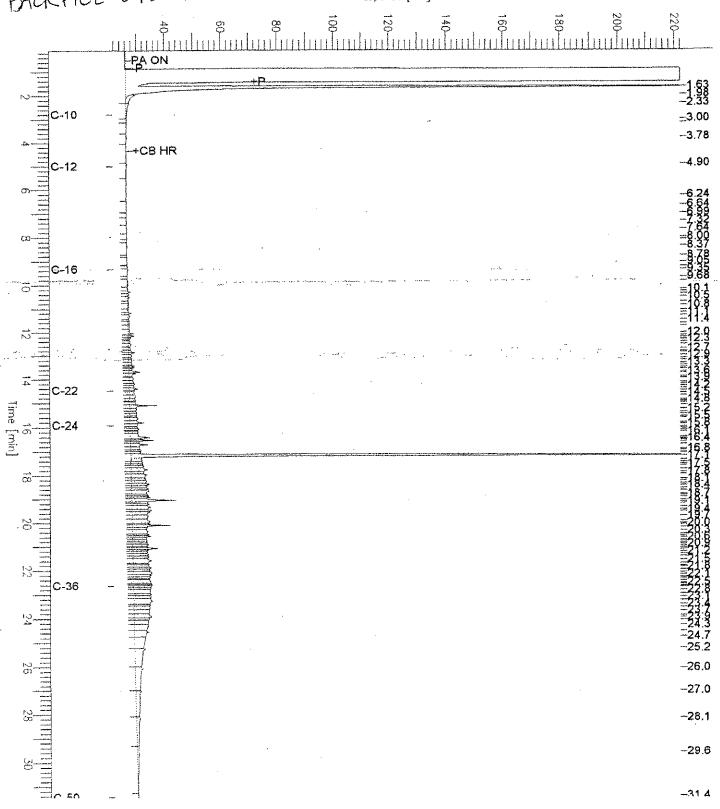
Date: 9/23/03 01:32 PM

Time of Injection: 9/23/03 12:44 PM

Low Point : 21.80 mV Plot Scale: 200.2 mV High Point : 222.04 mV







Sample Name : 167716-002sg,84726

: G:\GC17\CHA\266A008.RAW FileName

: ATEH262.MTH Method Start Time : 0.01 min

End Time : 31.91 min Plot Offset: 21 mV

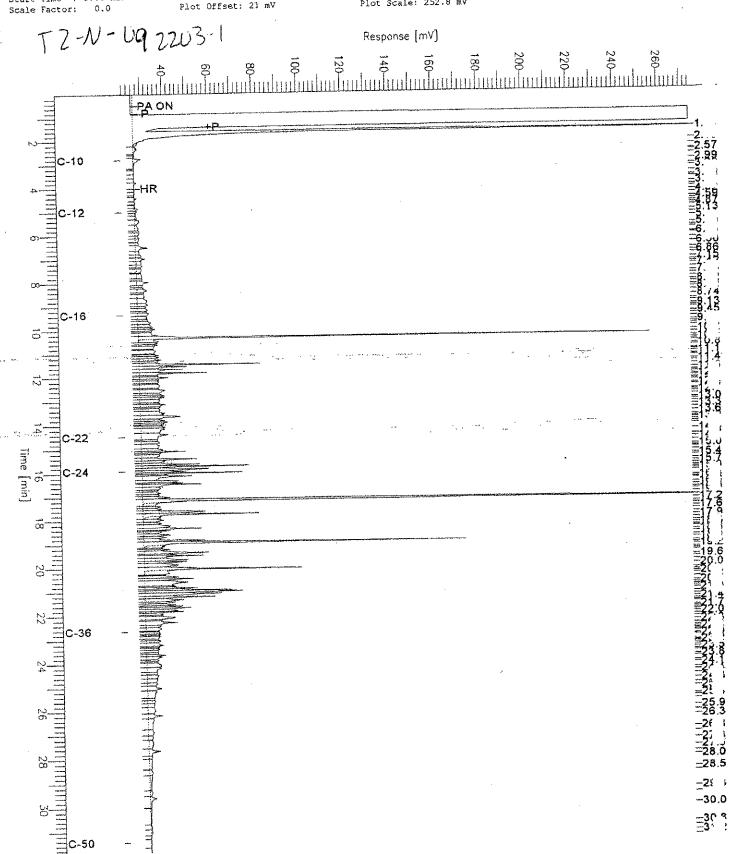
Sample #: 84726

Date: 9/23/03 02:37 PM

Time of Injection: 9/23/03 02:04 PM Low Point: 21.40 mV High Po High Point : 274.23 mV

Page 1 of 1

Plot Scale: 252.8 mV



Sample Name : 167716-003sg,84726 FileName : G:\GC17\CHA\266A009.RAW

Method

Start Time : 0.01 min Scale Factor:

: ATEH262.MTH End Time

: 31.91 min Plot Offset: 19 mV

Sample #: 84726

Page 1 of 1

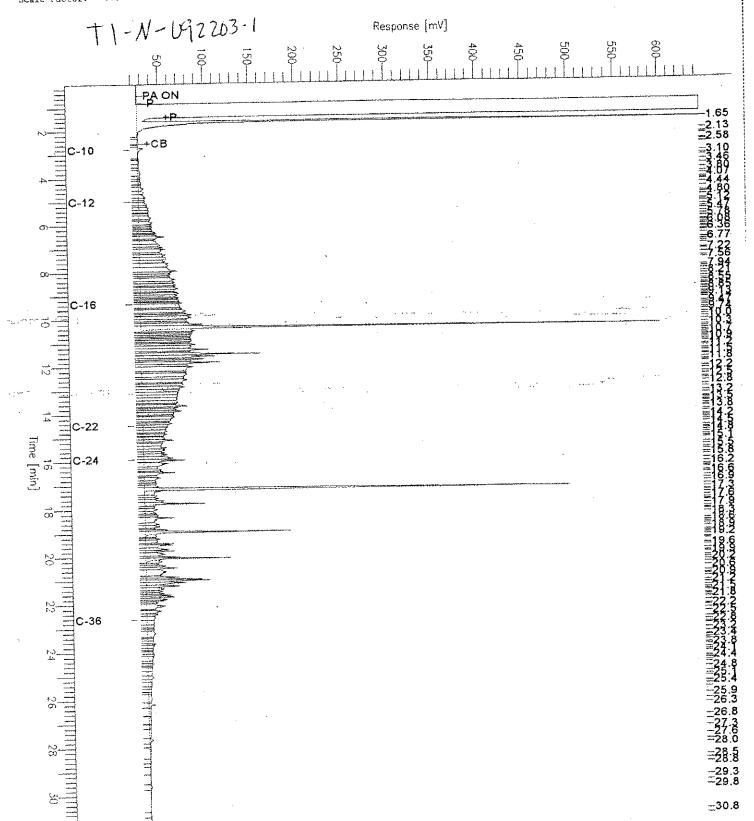
Date: 9/23/03 03:54 PM

Time of Injection: 9/23/03 02:57 PM

High Point : 644.78 mV Low Point : 18.97 mV

Plot Scale: 625.8 mV





Page 1 of 1 Sample Name : 167716-004sg,84726
FileName : G:\GCI7\CHA\266A007.RAW
Method : ATEH262.MTH Sample #: 84726 Date: 9/23/03 02:34 PM Time of Injection: 9/23/03 01:24 PM High Point : 365,50 mV Low Point : 20.38 mV End Time : 31.91 min Start Time : 0.01 min Plot Scale: 345.1 mV Plot Offset: 20 mV 0.0 Scale Factor: -S-092203-1 Response [mV] 350 250 15Q PA ON C-10 +CB C-12 C-16 C-22 Time [min] C-24 C-36 -27 -27.9 -28 5 -28 -29 -30.0 -30.5 -31

imple Name : ccv, 03ws1374, dsl

leName : G:\GC13\CHB\266B002.RAW

Method : BTEH264.MTH

Start Time : 0.01 min cale Factor: 0.0

End Time : 31.91 min Plot Offset: 29 mV

Page 1 of 1

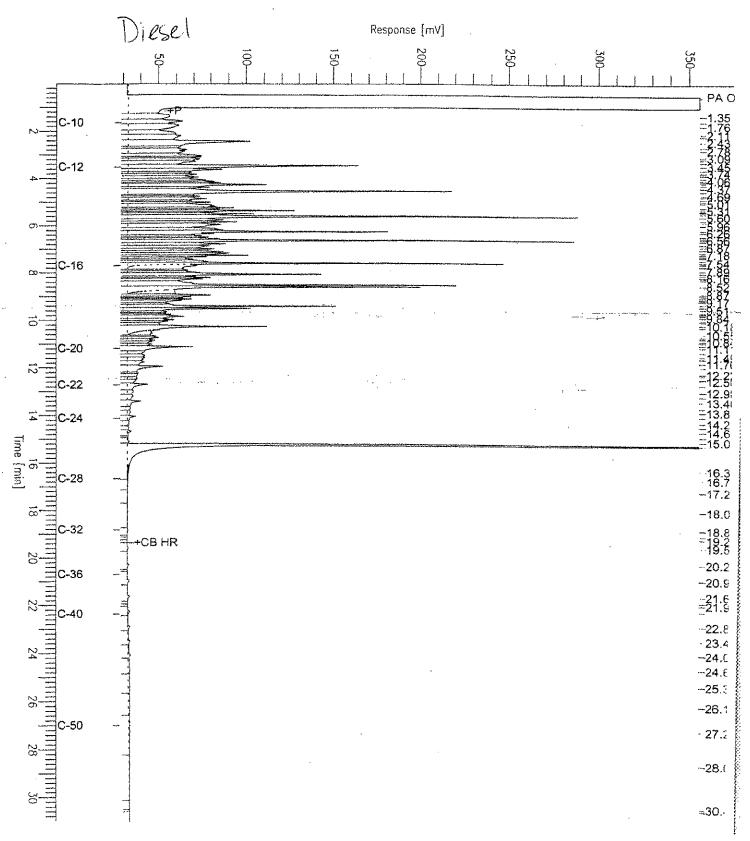
Sample #: 500mg/L Date : 9/23/03 10:29 AM

Time of Injection: 9/23/03 09:45 AM

Low Point : 28.76 mV Plot Scale: 326.7 mV

High Point : 355,45 mV







	M.L.I Distance	ctable Hydrocar	thans
	TOTAL EXCLA	crante Marcrar	
Lab #:	167716	Prep:	SHAKER TABLE
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8207.005		
Type:	LCS	Diln Fac:	1.000
Lab ID:	OC226539	Batch#:	84726
Matrix:	Soil	Prepared:	09/22/03
		Analyzed:	09/13/03
Units:	mg/Kg	mary acu.	04,00,00
Basis:	as received		

Cleanup Method: EPA 3630C

Hexacosane

Analyte		Spiked	Result	%REC	. Limits	
Diesel C10-C24		50.25	45.56	91	49-129	
	0.535	Limits			AND THE RESERVE	
Surrogate Hexacosane	91	36-141				اد سینسیئیریتناند.



	Total Extra	ctable Hydrocar	bons
Lab #: Client:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	SHAKER TABLE EPA 8015B
Project#: Field ID: 4SS Lab ID: 4atrix: Units: Basis:	2ZZZZZZZZZ 167675-001 Soil mg/Kg as received	Batch#: Sampled: Received: Prepared: Analyzed:	84726 09/18/03 09/18/03 09/22/03 09/23/03
Diln Fac:	1.000		

/pe:

MS

Lab ID:

QC226540

	MSS Result	Spiked	Result	%RE(Limits
Analyte	22.21	50.15	68.08	91	32-134
Diesel C10-C24	<u></u>				
			kananggan jalang dala		STANSACTA TO

Surrogate %REC Limits

Texacosane 101 36-141

ηpe:

MSD

Lab ID:

QC226541

the second of th					Name and Persons a	100
		Result			Company of the compan	انسناح
11		na katalan di Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupatèn Kabupa	Accompany of the Control of the Cont	1.4 CA 200 (1) (E. A. 1994)	10.	
	te Spiked		DATE:	44 44 44	20 To 10 To	777
- 和のでは2000には5000の人間を外になっております。 (機能・機能・機能・機能・				the state of the second st		
\$20,000 \$20,00						4.0
5772 6086 (2000) 100 0676 234 2557 3577 4 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	And the state of t	1 7 7 7	10Ω **	32-134	7.0	46
	50.11	12.1.4	190 ··	ع≕ دباد ∷بتے ت	🗸	~ ~
Mesel C10-C24	20.11					

Surrogate	%REC	Limits	
lexacosane	98	36-141	

^{*=} Value outside of QC limits; see narrative
'D= Relative Percent Difference
Page 1 of 1



	Purgeable .	Aromatics by GO	:/ws
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Field ID:	GW-092203-1	Batch#:	84757
Lab ID:	167716-005	Sampled:	09/22/03
Matrix:	Water	Received:	09/22/03
Units	ug/L	Analyzed:	09/23/03
Diln Fac:	3.333		

MIBE	390	1.7
Benzene	7.8	1.7
Toluene	75	1.7
Ethylbenzene	7.9	1.7
m.p-Xvlenes	45	1.7
m,p-Xylenes o-Xylene	21	1.7

Surrogate	%RE	Limits	
1,2-Dichloroethane-d4	102	77-129	
Toluene-d8	89	80-120	, , , , , , , , , , , , , , , , , , , ,
Bromofluorobenzene	9.8	80-123	



Client: Geomatrix Consultants Analysis: BPA 62808 Project#: 8207.005 Type: BLANK Diln Fac: 1.000 Batch#: 84757 Lab ID: QC226646 Analyzed: 09/23/03		Purgeable	Aromatics by GC	:/MS
Type: BLANK Diln Fac: 1.000 Hatch#: 84757 Lab ID: QC226646 Analyzed: 09/23/03	Lab #: Client:	Geomatrix Consultants	*-	
	Project#: Type: Lab ID: Matrix:	BLANK QC226646	Batch#:	84757

Analyte	Result	RL	
The second secon	ND	0.5	
MTBE Benzene	ND	0.5	
Toluene	ND	0.5	ļ
	ND	0.5	
m.p-Xvlenes	. · ND	0.5	
Ethylbenzene m,p-Xylenes o-Xylene	ND	0.5	

Surrogate	%RE(: Limits		
1 2 Dichloroethane-d4	96	77-129	and the second s	
Toluene-d8	. 93	80-120		
Bromofluorobenzene	105	80-123		

ND= Not Detected Reporting Limit Rage 1 of 1



	Purgeable	Aromatics by GC	/ MS
Lab #: Client: Project#:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 5030B EPA 8260B
Matrix: Units: Diln Fac:	Water ug/L 1.000	Batch#: Analyzed:	84757 09/23/03

Type:

BS

Lab ID:

QC226644

Analyte	50.00	49.54	99	69-124
MTBE	50.00	50.06	100	80-120
Benzene	50.00	45.50	91	80-120
Toluene Ethylbenzene	50.00	52.45	105	80-120
n,p-Xylenes	100.0	100.6	101	80-121
o-Xylene	50.00	52.30	105	80-120

%REC	Limits		
94	- 77-129		1
92	80-120		
104	80-123		
	94 92	94 - 77-129 92 80-120	94 - 77-129 92 80-120

Type:

BSD

Lab ID:

QC226645

Analyte	Spiked	Result	% REC	Limits	RPD	Li
MTBE	50.00	52.15	104	69-124	5	20
Benzene	50.00	48.61	97	80~120	3	20
Toluene	50.00	44.38	89	80-120	2	20
Ethylbenzene	50.00	49.28	99	80-120	6	20
m,p-Xylenes	100.0	100.7	101	80-121	0	20
o-Xylene	50.00	50.16	100	80-120	4	20

Surrogate	%REC	Limits	
1.2-Dichloroethane-d4	91	77-129	
Toluene-d8	92	80-120	
Bromofluorobenzene	94	80-123	



	Purgeable	Organics by GC/	MS
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 5030B EPA 8260B
Project#: Field ID: Lab ID: Matrix: Units: Basis:	8207.005 BACKFILL-092203-1 167716-001 Soil ug/Kg as received	Diln Fac: Batch#: Sampled: Received: Analyzed:	0.8621 84754 09/22/03 09/22/03 09/23/03

Analyte	Result	RI	2004 100 100 100
Freon 12	ND	8.6	İ
Chloromethane	ND	8.6	
. Vinyl Chloride	ND	8.6	
Bromomethane	ND	8.6	
Chloroethane	ND	8.6	
Trichlorofluoromethane	ND	4.3	
Acetone	ND	17	
Freon 113	ND	4.3	
1,1-Dichloroethene	ND		•
Methylene Chloride	ND	17	
Carbon Disulfide	ND	4:3	
MTBE	ND	4.3	
trans-1,2-Dichloroethene	. ND	4.3	
Vinyl Acetate	ND	43	
1,1-Dichloroethane	ND	4.3	
2-Butanone	ND	8.6	
cis-1,2-Dichloroethene	ND	4.3	
2,2-Dichloropropane	ND	4,3	
Chloroform	ND	4.3	
Bromochloromethane	ND	4.3	
1,1,1-Trichloroethane	ND	4.3	
1,1-Dichloropropene	ND	4.3	
Carbon Tetrachloride	ND .	4.3	
1,2-Dichloroethane	ND.	4.3	
Benzene	ND	4.3	
Trichloroethene	ND	4.3	
1,2-Dichloropropane	ND	4.3	
Bromodichloromethane	ND	4.3	
Dibromomethane	ND	4.3	
4-Methyl-2-Pentanone	ND	8,6	
cis-1,3-Dichloropropene	ND	4.3	
Toluene	ND	4.3	
trans-1,3-Dichloropropene	ND	4.3	
[1,1,2-Trichloroethane	ND	4.3	
2-Hexanone	ND	8.6	
1,3-Dichloropropane	ND	4.3	
Tetrachloroethene	ND	4.3	

ND= Not Detected RL= Reporting Limit Page 1 of 2



William Charles Control of the Contr

Lab #: 167716 Client: Geomatrix Consultants Analysis: EPA 8260B Project#: 8207.005 Field ID: BACKFILL-092203-1 Diln Fac: 0.8621 Field ID: BACKFILL-092203-1 Batch#: 84754	#: 167716 nt: Geomatrix Consultants Analysis: EPA 8260B ect#: 8207.005 d ID: BACKFILL-092203-1 Diln Fac: 0.8621 Batch#: 84754			Prep:	EPA 5030B
Tlient: Geomatrix Consultants Analysis: 217 0.000 Project#: 8207.005 Field ID: BACKFILL-092203-1 Diln Fac: 0.8621 Batch#: 84754	nt: Geomatrix Consultants Analysis: 217.002 ect#: 8207.005 d ID: BACKFILL-092203-1 Diln Fac: 0.8621 Batch#: 84754 ID: 167716-001 Sampled: 09/22/03 ix: Soil Recaived: 09/22/03	ab #:	167716	· · · · · · · · · · · · · · · · · · ·	
Field ID: BACKFILL-092203-1 Diln Fac: 0.8621 Batch#: 84754	Diln Fac: 0.8621 d ID: BACKFILL-092203-1		Geomatrix Consultants	Analysis:	mrn oxoon
Field ID: BACKFILL-092203-1 Batch#: 84754	d ID: BACKFILL-092203-1 Batch#: 84754 ID: 167716-001 Sampled: 09/22/03 ix: Soil Received: 09/22/03	roject#:			A 9621
167716-001 Batch#: 64754	ID: 167716-001 Batch#: 09/22/03 ix: Soil Batch#: 09/22/03		BACKFILL-092203-1		• • • • • •
	ix: Soil Sampled: 09/22/03	ab ID:	167716-001		* - · ·
Sampled: 09/22/03	Bogoived: 09/22/03			Sampled:	

Analyte	Resul		
Dibromochloromethane	ND	4.3	
1,2-Dibromoethane	ND	4.3	
Chlorobenzene	NID	4.3	
1,1,1,2-Tetrachloroethane	ND	4.3	
Ethylbenzene	ND	4.3	
m,p-Xylenes	ND	4.3	
o-Xylene	ND	4.3	
Styrene	ND	4.3	
Bromoform	ND	4.3	1
Isopropylbenzene	ND	4.3	
1,1,2,2-Tetrachloroethane	. ND -	4.3	Section 1975 Sept. 117.
1,2,3-Trichloropropane	ND	4.3	
Propylbenzene	ИD	4.3	
Bromobenzene	ND	4.3	i de la companya de
1,3,5-Trimethylbenzene	ND	4.3	·
2-Chlorotoluene	ND	4.3	ļ
4-Chlorotoluene	ИD	4.3	
tert-Butylbenzene	ND	4.3	
1,2,4-Trimethylbenzene	ND	4.3	
sec-Butylbenzene	ND	4.3	
para-Isopropyl Toluene	ND	4.3	
1,3-Dichlorobenzene	, ND	4.3	
1,4-Dichlorobenzene	ND	4.3	
n-Butylbenzene	ND	±.3 4.3	
1,2-Dichlorobenzene	ND	4.3	
1,2-Dibromo-3-Chloropropane	ND	4,3	
1,2,4-Trichlorobenzene	ND	4.3	,
Hexachlorobutadiene	ND	4.3	
Naphthalene	ND	4.3	
1,2,3-Trichlorobenzene	ND	7 1 2	

Surrogate	%REC	Limits	
Dibromofluoromethane	104	74-128	
1,2-Dichloroethane-d4	104	76-130	
Toluene-d8	98	80-120	
Bromofluorobenzene	98	76-125	•

ND= Not Detected RL= Reporting Limit Page 2 of 2



	Purgeable .	Aromatics by GC	/ms
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 5030B EPA 8260B
Project#: Field ID: Lab ID: Matrix: Units: Basis:	8207.005 T2-N-092203-1 167716-002 Soil ug/Kg as received	Diln Fac: Batch#: Sampled: Received: Analyzed:	0.9804 84754 09/22/03 09/22/03 09/23/03

Analyte	Result 97	RL 4.9	.,
MTBE		4.9	
Benzene	ND		
Toluene	ND	4.9	
	ND	4.9	
Ethylbenzene m,p-Xylenes o-Xylene	ND .	4.9	
m,p-xyrenes	ND	4.9	

100	Surrogate	%REC	Limits			
: 💾	1,2-Dichloroethane-d4	- 104-	76-130	 j		
1	Toluene-d8	97	80-120			
ļ	Bromofluorobenzene	95	76-125	 	 *	<u></u>

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Purgeable .	Aromatics by GC	:/ws
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Field ID:	T1-N-092203-1	Diln Fac:	1.000
Lab ID:	167716-003	Batch#:	84754
	Soil	Sampled:	09/22/03
Matrix:		Received:	09/22/03
Units:	ug/Kg	Analyzed:	09/23/03
Basis:	as received	Analyzed:	09/23/03

Analyte	Result 110	RL 5.0	
MTRE	ND	5.0	
Benzene	ND	5.0	
Toluene	- "	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes o-Xylene	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%REC	C Limits	対象を
1,2-Dichloroethane-d4	104	76-130	
Toluene-d8	98	80-120	
Bromofluorobenzene	93	76-125	- 1



	Purgeable .	Aromatics by GO	:/MS
Lab #: Client: Project#:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 5030B EPA 8260B
Field ID: Lab ID: Matrix: Units: Basis:	T2-S-092203-1 167716-004 Soil ug/Kg as received	Batch#: Sampled: Received: Analyzed:	84754 09/22/03 09/22/03 09/23/03

Analyte	Result	RL	Diln Fac	
MTBE	330	21	4,167	
Benzene	ND	5.0	1,000	
. Toluene	ND	5.0	1.000	
	NĎ	5.0	1,000	
Ethylbenzene m,p-Xylenes	ND	5.0	1.000	
m'b-vArenea	ND .	5.0	1.000	
o-Xylene				

. 1	Surrogate	%RE	C Limits	Diln	n Fac
	1,2-Dichloroethane-d4	104	76-130	1 000	
	Toluene-d8	97	80-120	1.000	0
	Bromofluorobenzene	96	76-125	1.000	0



	Purgeable	Aromatics by GC	e/ms
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Type:	BLANK	Basis:	as received
Lab ID:	QC226637	Díln Fac:	1.000
Matrix:	Soil	Batch#:	84754
Units:	ug/Kg	Analyzed:	09/23/03

MTBE	ND	5.0	
Benzene	ND	5.0	
Toluene	ИD	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	,
o-Xylene	ND -	5.0	

Surrogate	*REC	Limits				Street Street Street
1,2-Dichloroethane-d4	106	76-130				
Toluene-d8	98	80-120				
Bromofluorobenzene	92	76-125	 · • ·			
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	Purgeable	Organics by GC/	ew.
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Type:	BLANK	Bașis:	as received
Lab ID:	OC226637	Diln Fac:	1.000
Matrix:	Soil	Batch#:	84754
Units:	ug/Kg	Analyzed:	09/23/03

Analyte	Result	RL
Freon 12	ND	10
Chloromethane	ND	10
Vinyl Chloride	ND	10
Bromomethane	ND	10
Chloroethane	ND	10
Trichlorofluoromethane	ND	5.0
Acetone	ND	20
Freon 113	ND	5.0
1,1-Dichloroethene	ND	5.0
Methylene Chloride	ND	20 ***
Carbon Disulfide	NID	5.0
MTBE	ND	5.0
trans-1,2-Dichloroethene	ND	5.0
Vinyl Acetate	ND	50· · ·
1,1-Dichloroethane	ND .	5.0
2-Butanone	ND	10
cis-1,2-Dichloroethene	ND	5.0
2,2-Dichloropropane	ND	5.0
Chloroform	ND	5.0
Bromochloromethane	ND	5.0
1,1,1-Trichloroethane	ND	5.0
1,1-Dichloropropene	ND	5.0
Carbon Tetrachloride	ND .	5.0
1,2-Dichloroethane	ND	5.0
Benzene	ND	5.0
Trichloroethene	ND	5.0
1,2-Dichloropropane	ND	5.0
Bromodichloromethane	ND	5.0
Dibromomethane	ND	5.0
4-Methyl-2-Pentanone	ND	10
cis-1,3-Dichloropropene	ND	5.0
Toluene	ND	5.0
trans-1,3-Dichloropropen	e ND	5.0
1,1,2-Trichloroethane	ND	5.0
2-Hexanone	ND	10
1,3-Dichloropropane	ND	5,0
Tetrachloroethene	ND	5,0
Dibromochloromethane	ND	5.0



	Purgeable (Organics by GC/	MS	
Lab #: Client:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 5030B EPA 8260B	
Project#: Type: Lab ID: Matrix: Units:	BLANK QC226637 Soil ug/Kg	Basis: Diln Fac: Batch#: Analyzed:	as received 1.000 84754 09/23/03	

Analyte	Result	RL
1,2-Dibromoethane	ND	5.0
Chlorobenzene	ND	5.0
1,1,1,2-Tetrachloroethane	ND	5.0
Ethylbenzene	ND	5.0
m,p-Xylenes	ND	5.0
o-Xylene	ND	5.0
Styrene	ND	5.0
Bromoform	ND	5.0
Isopropylbenzene	ND	5.0
1,1,2,2-Tetrachloroethane	ND	5.0
1,2,3-Trichloropropane	ND	5.0
Propylbenzene		
Bromobenzene	ND	5.0
1,3,5-Trimethylbenzene	ND	5.0
2-Chlorotoluene	ND	5.0
.4-Chlorotoluene	ND	, 5.0 ····
tert-Butylbenzene	ND	5.0
1,2,4-Trimethylbenzene	ND	5.0
sec-Butylbenzene	ND	5,0
para-Isopropyl Toluene	ND	5.0
1,3-Dichlorobenzene	ND	5.0
1,4-Dichlorobenzene	ND	5.0
n-Butylbenzene	ND	5.0
1,2-Dichlorobenzene	ND	5.0
1,2-Dibromo-3-Chloropropane	ND	5,0
1,2,4-Trichlorobenzene	ND	5.0
Hexachlorobutadiene	ИD	5 0
Naphthalene	ND	5.0
1,2,3-Trichlorobenzene	ND	5.0

Surrogate %	REC Limit	
Dibromofluoromethane 10	4 74-12	}
1,2-Dichloroethane-d4 10	6 76-13	
Toluene-d8 98	80-12	
Bromofluorobenzene 92	76-12	



	Purgeable	Aromatics by GC	:/MS
Lab #:	167716	Prep:	EPA 5030B EPA 8260B
Client:	Geomatrix Consultants 8207.005	Analysis:	HFM 0200D
Project#: Type:	LCS	Basis:	as received
Lab ID:	QC226636	Diln Fac:	1.000
Matrix:	Soil	Batch#:	84754
Units:	ug/Kg	Analyzed:	09/23/03

Analyte	Spiked	Result	*REC	Limits	
	50.00	46.29	93	78-120	1
Benzene Toluene	50.00	45.45	91	79-120	
Tordette					

Surrogate	%RBC	Limits
1,2-Dichloroethane-d4	104	76-130
Toluene-d8	99	80-120
Bromofluorobenzene	89	76-125



	Purgeable	Organics by GC/	'MS
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Type:	LCS	Basis:	as received
Lab ID:	QC226636	Diln Fac:	1.000
Matrix:	Soil	Batch#:	84754
Units:	ug/Kg	Analyzed:	09/23/03

Analyte	Spiked	Result	AREC	3 Limits	(Uniting
1.1-Dichloroethene	50.00	48.39	97	72-125	
Benzene	50.00	46.29	93	78-120	
Trichloroethene	50.00	46.12	92	76-127	
Toluene	50.00	45.45	91	79-120	
Chlorobenzene	50.00	45.80	92	80~120	

Dibromofluoromethane 106 74-128 1,2-Dichloroethane-d4 104 76-130 Toluene-d8 99 80-120	Surrogate	%REC	Limits		Militaria de la composición del composición de la composición de l
Toluene-d8 99 80-120	the state of the s	106	74-128		
Tordene-do	1,2-Dichloroethane-d4	104	76-130		
Promofiliorobenzene 89° 76-125	Toluene-d8	99	80-120	,	
Bromot reordenzene 35 10 120	Bromofluorobenzene	89	76-125		



	Purgeable	Aromatics by GC	C/MS
Lab #:	167716	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Field ID:	T2-N-092203-1	Diln Fac:	0.9804
MSS Lab ID:	167716-002	Batch#:	84754
Matrix:	Soil	Sampled:	09/22/03
Units:	ug/Kg	Received:	09/22/03
Basis:	as received	Analyzed:	09/23/03

Type:

MS

Lab ID:

QC226655

Analyte	MSS Result	Spiked	Result	%RE	C Limits
Benzene	0.3984	49.02	35.32	71	55-121
Toluene	<0.4800	49.02	34.85	71	44-129

Surrogate	%REC	Limits				200000000000000000000000000000000000000
1,2-Dichloroethane-d4	105	76-130	,	2.		
Toluene-d8	99	80-120				
Bromofluorobenzene	95	76-125				

Type:

MSD

Lab ID:

QC226656

Analyte	Spiked	Result	%RE	Limits	RPD	Lim
Benzene	49.02	35,02	71	55-121	1	20
Toluene	49.02	33.69	69	44-129	3	20
1010000			************	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	101	76-130
Toluene-dB	98	80-120
Bromofluorobenzene	96	76~125



	Purgeable	Organics by GC/	MS	
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 5030B EPA 8260B	
Project#: Field ID: MSS Lab ID: Matrix: Units: Basis:	8207.005 T2-N-092203-1 167716-002 Soil ug/Kg as received	Diln Fac: Batch#: Sampled: Received: Analyzed:	0.9804 84754 09/22/03 09/22/03 09/23/03	

Type:

MS

Lab ID:

QC226655

<0.2500	49.02	40 23	00	M D D D D
	49.04	40.22	82	53-135
	49.02	35,32	71	55-121
•	49.02	35.99	73	46-149
,	49.02	34.85	71	44-129
1.	49.02	31.82	65	48-121
	0.3984 <0.4600 <0.4800 <0.3900	<0.4600 49.02 <0.4800 49.02	<0.4600 49.02 35.99 <0.4800 49.02 34.85	<pre><0.3984 <0.4600 49.02 35.99 73 <0.4800 49.02 34.85 71</pre>

Surrogate	%REC	Limits	
Dibromofluoromethane	106	74-128	
1,2-Dichloroethane-d4	105	76-130	f
Toluene-d8	99	80-120	
Bromofluorobenzene	95	-76-125	

Type:

MSD

Lab ID:

QC226656

	Spiked	Result	%REC	Limits	RPD	Lim
Analyte	49.02	42.73	87	53-135	6	20
1,1-Dichloroethene	49.02	35.02	71	55-121	î.	20
Benzene	49.02	35.34	72	46-149	2	20
Trichloroethene	49.02	33.69	69	44-129	3	20
Toluene	49.02	29.62	60	48-121	7	20
Chlorobenzene	43.02			······		

Surrogate	%REC	Limits	图图10 10 19 19 19 19 19 19 19 19 19 19 19 19 19
Dibromofluoromethane	105	74-128	·
1,2-Dichloroethane-d4	101	76-130	
Toluene-d8	98	80~120	
Bromofluorobenzene	96	76-125	



		Lead	
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	METHOD EPA 6010B
Project#:	8207.005	123427 242	
Analyte:	Lead	Batch#:	84783
Field ID:	GW-092203-1	Sampled:	09/22/03
Matrix:	Filtrate	Received:	09/22/03
Units:	ug/L	Prepared:	09/24/03
Diln Fac:	1.000	Analyzed:	09/24/03

Type	Lab ID	Resul	RL
	167716-005	ND	3.0
BLANK	QC226747	ND	3.0



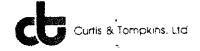
		Lead	
Lab #: Client:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	METHOD EPA 6010B
Project#: Analyte:	Lead	Batch#:	84783
Matrix:	Filtrate	Prepared:	09/24/03
Units:	ug/L	Analyzed:	09/24/03
Diln Fac:	1.000		

BSD	QC226749	100.0	22.30	~ ~				
1		100.0	99.40	99	68-123	17	27	
BS	QC226748	100.0	83.70	84	68-123			
Type	Lab ID	Shrver						***
	4 1 2 2	Spiked	Result	%REC	Limits	RPD	Lim	8



		+ 3	
		Lead	
Lab #:	167716	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8207.005		
Analyte:	Lead	Batch#:	84783
Field ID:	ZZZZZZZZZ	Sampled:	09/17/03
MSS Lab ID:	167646-002	Received:	09/17/03
Matrix:	Filtrate	Prepared:	09/24/03
Units:	ug/L	Analyzed:	09/24/03
Diln Fac:	1.000		

Туре	Lab ID	MSS Result	Spiked	Result	*RI	C Limits	RPD	Lim
MS	QC226750	<1.300	100.0	74.20	74	33-145	•	
MSD	QC226751		100.0	94.20	94	33-145	24	43



California Title 26 Metals 8207.005 Project#: 167716 Lab #: Geomatrix Consultants Client: as received Basis: BACKFILL-092203-1 Field ID: 09/22/03 Sampled: 167716-001 Lab ID: 09/22/03 Received: Soil Matrix: mg/Kg Units:

Analyte	Result	ХŢ	Diln Fa	d Batch#	Prepared	Analyzed	Prep	Analysis
Antimony	ND	2.9	1.000	84771			EPA 3050	EPA 6010B
Arsenic	2.8	0,24	1.000	84771			EPA 3050	EPA 6010B
Barium	29	0.48	1.000	84771			EPA 3050	EPA 6010B
Beryllium	0.21	0.096	1.000	84771			EPA 3050	EPA 6010B
Cadmium	0.91	0.24	1,000	84771	09/24/03	09/24/03	EPA 3050	EPA 6010B
Chromium	7.3	0.48	1.000	84771	09/24/03	09/24/03	EPA 3050	EPA 6010B
Cobalt	20	0.96	1.000	84771	09/24/03	09/24/03	EPA 3050	EPA 6010B
Copper	41	0.48	1.000	84771			EPA 305.0	EPA 6010B
Lead	ND	0.14	1.000	84771			EPA 3050	EPA 6010B
Mercury	8.7	0.96	50.00	84746	09/23/03	09/23/03	METHOD	EPA 7471
Molybdenum	ND	0.96	1.000	84771	, .		EPA 3050	EPA 6010B
Nickel	. 13	0,96	1.000	84771			EPA 3050	EPA 6010B
Selenium -	ND · · · ·	0.24	1,000	84771			EPA 3050	EPA 6010B
Silver	ND	0.24	1,000	84771			EPA 3050	EPA 6010B
Thallium	2.0	0.24	1,000	B4771			EPA 3050	EPA 6010B
Vanadium	110	0.48	1.000	84771			EPA 3050	EPA 6010B
Zinc	46	0.96	1.000	84771		09/24/03	EPA 3050	EPA 6010B



	Californi	a Title 26 Meta	ale
Lab #:	167716	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8207.005		
Analyte:	Mercury	Basis:	as received
Type:	BLANK	Diln Fac:	1.000
Lab ID:	QC226612	Batch#:	84746
Matrix:	Soil	Prepared:	09/23/03
Units:	mg/Kg	Analyzed:	09/23/03

 Result
 RL

 ND
 0.020



	Californi	a Title 26 Meta	IT2
Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 3050 EPA 6010B
Project#: Type: Lab ID: Matrix: Units: Basis:	8207.005 BLANK QC226691 Soil mg/Kg as received	Diln Fac: Batch#: Prepared: Analyzed:	1.000 84771 09/24/03 09/24/03

Analyte	Result	RL		Sign
Antimony	ND	3.0		
Arsenic	ND .	0.25		
Barium	ND	0.50		
Beryllium	ND	0.10		
Cadmium	ND	0.25		
	ИD	0.50		
Chromium	ND	1.0		
Cobalt	ND	0.50		
Copper	ND	0.15		
Lead	ND	1.0		
Molybdenum	ND ·	1% Q*;;		
Nickel	ND	0.25		
Selenium		0.25		
Silver	ND	0.25		
Thallium	ND	0.50		
Vanadium	ЙD	1.0	•	
Zinc	ND	1.0		



	Californi	a Title 26 Meta	als
Lab #:	167716	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8207.005		
Analyte:	Mercury	Diln Fac:	1.000
Matrix:	Soil	Batch#:	84746
Units:	mg/Kg	Prepared:	09/23/03
Basis:	as received	Analyzed:	09/23/03

Туре	Lab ID	Spiked	Result	%REC	Limits	RPD	Lin
BS	QC226613	0.5000	0.5130	103	80-120		
BSD	QC226614	0.5000	0.5320	106	80-120	4	20



	W 65. H 4 V 2 4 4 4 4	a Title 26 Meta	170
Lab #:	167716	Prep:	METHOD
Client:	Geomatrix Consultants	Analysis:	EPA 7471
Project#:	8207.005		
Analyte:	Mercury	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	84746
MSS Lab ID:	167533-005	Sampled:	09/12/03
	Soil	Received:	09/12/03
Matrix:	=	Prepared:	09/23/03
Units: Basis:	mg/Kg as received	Analyzed:	09/23/03

1017756	a tah Ti	MSS Result	Spiked	Result	%REC	Limits RPD	Lin
MS	OC226615	0.04110	0.4545	0.5682	116	37-144	
MSD	OC226616	2 / 2 + 111 = -	0.4386	0.5693	120	37-144 3	37
רוטויו	QCZZ0020			<u></u>	4-14-10-14-14-14-14-14-14-14-14-14-14-14-14-14-		



		California T	itle 26 Metals	
2.	Lab #: Client:	167716 Geomatrix Consultants	Prep: Analysis:	EPA 3050 EPA 6010B
	Project#: Matrix: Units: Basis: Diln Fac:	8207.005 Soil mg/Kg as received 1.000	Batch#: Prepared: Analyzed:	84771 09/24/03 09/24/03

Type:

BS

Lab ID;

QC226692

Analyte	Spiked	Result	%REC	Limits
Antimony	100.0	111.0	111	73-134
Arsenic	50.00	45.90	92	74-120
Barium	100.0	94.50	95	72-120
Beryllium	2.500	2.290	92	74-120
Cadmium	10.00	8.700	87	72-120
Chromium	100.0	91.00	91	74-120
Cobalt	25.00	21.85	87	70-120
Copper	12.50	11.85	95	70-120
Lead	100.0	88.50	89	71-120
Molybdenum	20.00	19.15	96	76-120
Nickel	25.00	21.75	87	72-120
Selenium	50.00	41.75	84	66-120
Silver	10.00	9.050	91	66-120
Thallium	- 50.00~	: .42.60:	85	69-120
Vanadium	25.00	23.15	93	74-120
Zinc	25.00	21.60	86	68-120

Type:.

BSD ...

....Lab ID:

.... QC226693

Ana yte	Spiked	Result	%REC	Limits	RPD	Lim
Antimony	100.0	111.5	112	73-134	0	20
Arsenic	50.00	45.75	92	74-120	0	20
Barium	100.0	95.00	95	72-120	1	20
Beryllium	2.500	2.295	92	74-120	Ö	20
Cadmium	10.00	8,650	87	72-120	1	20
Chromium	100.0	91.50	92	74-120	1	20
Cobalt	25.00	21.95	88	70-120	0	20
Copper	12.50	11.95	96	70-120	1	20
Lead	100.0	89.50	90	71-120	1	20
Molybdenum	20.00	19.70	99	76~120	3	20
Nickel	25.00	22.05	88	72-120	1	20
Selenium	50.00	41.95	84	66-120	0	20
Silver	10.00	9.100	91	66-120	1	20
Thallium	50.00	43.35	87	69-120	2	20
Vanadium	25.00	23.30	93	74-120	1	20
Zinc	25-00	21.70	87	68-120	0	20



	167716	a Title 26 Meta	EPA 3050 EPA 6010B	
Lab #: Client:	Geomatrix Consultants 8207.005	Analysis:	84771	
Project#: Field ID:	2ZZZZZZZZZ 167551-001	Batch#: Sampled:	09/12/03	
MSS Lab ID: Matrix:	Soil	Received: Prepared:	09/12/03 09/24/03	
Jnits: Basis:	mg/Kg as received	Analyzed:	09/24/03	

Time: M	g	Lab ID:	QC226694		
Type.		Spilked	Result	4REC	<u>Linitë</u>
Analyte Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper Lead Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc	MSS Result 3.889 2.563 96.63 0.2712 <0.01900 238.9 31.92 24.38 3.889 0.4466 524.0 <0.1600 0.1000 1.207 36.54 38.46	89.69 44.84 89.69 2.242 8.969 89.42 11.21 89.69 17.94 22.42 44.84 84.84 22.42 22.42	37.71 41.97 183.9 2.233 7.713 302.7 47.09 34.66 74.89 14.17 506.7 33.95 8.251 36.41 55.16 56.50	38 88 97 88 86 71 NM 68 92 NM 79 77 -77 NM 76 91 79 83	15-123 40-126 19-138 58-120 47-131 35-131 39-120 23-137 28-120 32-136 38-120 55-120 55-120 20-147

Mr. man s	MSD	Lab ID:	QC226695				
Antimony Arsenic Barium Beryllium Cadmium Chromium Cobalt Copper	MSD Rnalyte	Spiked 98.04 49.02 98.04 2.451 9.804 98.04 24.51 12.25 98.04	Result 38.24 42.65 182.4 2.260 7.745 302.9 48.73 32.45 78.92	*REC 35 82. 87 81 79 65 NM 69 66	5:m1:8 15-123 40-126 19-138 58-120 47-120 35-131 39-120 32-150 23-137 28-120	RPD 7 7 5 7 8 2 0 9 3 10	45 28 30 20 24 29 29 40 21
Lead Molybdenum Nickel Selenium Silver Thallium Vanadium Zinc		19.61 24.51 49.02 9.804 49.02 24.51	13.97 504.9 35.44 8.431 37.16 54.41 53.43	69 -78 NM 72 85 73 73	28-120 32-136 38-120 55-120 50-120 25-130 20-147	1 5 7 7 5 9	35 26 26 26 26 32

NM= Not Meaningful RPD= Relative Percent Difference Page 1 of 1



		Lead	
	1000		EPA 3050
Lab #: Client: Project#:	167716 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 6010B
Analyte:	Lead	Batch#:	84771
Matrix:	Soil	Sampled:	09/22/03
Units:	mg/Kg	Received:	09/22/03
Basis:	as received	Prepared:	09/24/03
Diln Fac:	1.000	Analyzed:	09/24/03
Field ID	Type Lab ID	Result	RL
T2-N-092203-1	SAMPLE 167716-002	4.3	0.14
T1-N-092203-1	SAMPLE 167716-003	4.5	0.14
T2-S-092203-1	SAMPLE 167716-004	4.4	0.14
	BLANK QC226691	ND	0.15



		Lead		
Lab #:	167716	Prep:	EPA 3050	
Client:	Geomatrix Consultants	Analysis:	EPA 6010B	•
Project#:	8207.005			
Analyte:	Lead	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	84771	
Units:	mg/Kg	Prepared:	09/24/03	
Basis:	as received	Analyzed:	09/24/03	

Тура	Lab ID	Spiked	Result	%RB(Limits	RPD	Lim	
BS	QC226692	100.0	88.50	89	71-120			
BSD	QC226693	100.0	89.50	90	71-120	1	20	



			Le						
	Lab #:	167716		Prep:		3050 6010B			
SSI 1	Client:	Geomatrix Consultants 8207.005		Analysis:	DIA	00100			
	Project#: Analyte:	Lead		Diln Fac:	1.0 847				
	Field ID:	ZZZZZZZZZZ		Batch#: Sampled:		12/03			
- 1	MSS Lab ID:	167551-001 Soil		Received:	•	12/03			
- 1 -	Matríx: Units:	mq/Kg		Prepared:		24/03			
M .	Basis:	as received		Analyzed:	09/	24/03			
		MSS Result	Spiked		Result	%RI	C Limits	RPD	Lim
	Type Lab ID MS QC226694		89.		74.89	79	23-137		
	MSD QC226695	- · · · ·	98.	04	78.92	77	23-137	3	40



Curtis & Tompkins, Ltd., Analytical Laboratories, Since 1878

2323 Fifth Street, Berkeley, CA 94710, Phone (510) 486-0900

ANALYTICAL REPORT

Prepared for:

Geomatrix Consultants 2101 Webster Street 12th Floor Oakland, CA 94612

Date: 10-0CT-03

Lab Job Number: 167747

Project ID: 8207.005

... Location:

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the following signatures. The results contained in this report meet all requirements of NELAC and pertain only to those samples which were submitted for analysis.

Reviewed by:

Project Mar

Reviewed by:

Operations Manager

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NELAP # 01107CA

Page 1 of <u>28</u>



Laboratory Number: 167747 Client: Geomatrix Consultants

Project#: 8207.005

Location: Port of Oakland

Receipt Date: 09/24/03

CASE NARRATIVE

This hardcopy data package contains sample and QC results for three soil samples that were received on September 22, 2003. The samples were received cold and intact.

TPH-Purgeables/BTEX by EPA 8015B/8021

High bromofluorobenzene surrogate recovery was observed in sample DIES-092403-1. This outlier was due to heavy hydrocarbons coeluting with the surrogate peak. No other analytical problems were encountered.

TPH-Extractables by EPA 8015B

All extracts were silica gel cleaned prior to analysis. Sample DIES-092403-1 was analyzed at a dilution, which caused the surrogate to be diluted out. No other analytical problems were encountered.

Volatile Organics by EPA 8260B

Bromofluorobenzene surrogate recoveries were high in sample DIES-092403 and the matrix spikes. High toluene spike recovery was also observed in the matrix spikes. These outliers can be attributed to matrix interference. The associated laboratory control sample met acceptance criteria. No other analytical problems were encountered.

California Title 26 Metals by EPA 6020/7470A

No analytical problems were encountered.

	hain.	of Custody F	200	or	·d	<u> </u>	·	Т											Date	9	14	٥3			Pag		of		
	Chain-of Custody Record Project No.: 8707.005 ANAI					NAI	YSES					REMARKS																	
	· · · · · · · · · · · · · · · · · · ·								soline)	 	ਿੰ		y 8260						(0)				_		Ad	ditional	Comm	ents	
Eliza	obedn h	Shelly or	athod 8021	EPA Method 8021 (Hat: VOCs only)	athod 8021 only)	thod 8260	ethod 8270 24n)	ethod 8270 AHS only)	Method 8015m (Gasoline)	Method 8015m (Diesel)	Method 8015m (Motor	Silica Gel Cleanup	MHY-1 BETX BY 8260	1 Lend					Soil (S), Water (W) Vapor (V), or Other	. pe	resarved	På	No. of Containers						
Date	Time	Sample Number	EPA Me	EPA Me	EPA X	EPA M	EPA M	SIN (P	Methoc	Methox	Method	Silica	崖	-						Filtered		Cooled	2	1					
9 14 03	1050	pipe 1-092403-1							×	×	_	_	×	×					S	2	N	7	1	╂	please				
9 [14]03	1030	dies - 092403 -1							×	×	L		×	×					5	N	N	7	 	╬	Port		DVKI	<u>~ 4</u>	
9/14/03	1035	9050-092403-1							×	×		-	×	×				ļ	\$	N	N	1	╀	-	direct	<u>- K</u>			
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Laborato	ory: (& 7		T	urna 49	roun - h		me:				esul (NN	PA	Hers		1		No. c						3	ı	·	···	·		
Retroul	^ _	Gignature): Date:	Relin	• •			Sign	alu	e):	1	Date	9:	Reli	nqu	shec	i by	(Sig	natu	ire):		Dat	te:	Me	tho	od of Sh	ipmer	1: die	· tt	
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		Time:	Com	<u> </u>							[''''		Con	pan	y:	····•							210	1 We	bater Stree hone: 510-8	t, 121h i 53-4160	Fax: 51	skiand, C. 0-663-414	A 9461
Company	y-)~ (- {	l'%	J U.M	, ,,,,,	•					Ε,		. 1									<u> </u>		<u> </u>						

SQP Volume:

Client Services

Section:

1.1.2

Filename: F:\qc\forms\cooler.wpd

Page:

1 of 1

Effective Date: 10-May-99

Revision. Filename: 1 Number 3 of 3

F:\QC\Forms\QC\Cooler.wpd



COOLER RECEIPT CHECKLIST

CHOH.	Date Received: 9/2 4/03 Number of Coolers: GERMATRIX Project:	
A.	Preliminary Examination Phase Date Opened: 4/24/63 By (print): 6 HAHN (sign) Did cooler come with a shipping slip (airbill, etc.)?	Mor-
1.	Did cooler come with a shipping slip (airbill, etc.)?	YES (NO)
1.	If YES, enter carrier name and airbill number:	
2.	If YES, enter carrier name and airbill number: Were custody seals on outside of cooler?	YES (NO)
	Liow many and where? Seal date: Seal nam	1e:
3.	Were custody seals unbroken and intact at the date and time of arrival?	XES NO //
4.	Were fustody papers dry and intact when received?	YES NO
5.	Were custody papers filled out properly (ink, signed, etc.)?	(YES) NO
6.	Did you sign the custody papers in the appropriate place?	YES NOW
7.	Was project identifiable from custody papers? If YES, enter project name at the top of this form.	YES NO
,	If YES, enter project name at the top of this form.	
8.	If required was sufficient ice used? Samples should be 2-6 degrees C	YES NO
	Type of ice: $\mathcal{V}\hat{\mathcal{L}}\mathcal{T}$ Temperature: $\mathcal{C}\circ\mathcal{C}$	~~
9	and the second of the second o	
В.	Login Phase	$-/W_{-}$
	Date Logged In: 72470 By (print): (sign)	1
1.	Login Phase Date Logged In: 9/24/03 By (print): 6 MMM (sign) Describe type of packing in cooler: BA6650 IN 718000	YES NO
2.	1 11/1 2411 (WHILES MILLIAN (IIII) (INC. 11 11) (INC. 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
3.	Were labels in good condition and complete (ID, date, time, signature, e	C.)7.(. YES NO
4.	Did bottle labels agree with custody papers?	TES NO
5.	Were appropriate containers used for the tests indicated?	VES NO 4/
6.	Were correct preservatives added to samples?	VES NO
7.	Was sufficient amount of sample sent for tests indicated?	VES NO V
8.	Were bubbles absent in VOA samples? If NO, list sample Ids below	VEC NO
9.	Was the client contacted concerning this sample delivery?	1L5 140
	If YES, give details below.	Data
	Who was called? By whom?	Date
Addit	ional Comments:	
And the same of the same		
	- Shadfarra and	Rev. 1, 4/95



	Total Vola	tile Hydrocarbo)ns
Lab #: Client:	167747 Geomatrix Consultants	Prep: Analysis:	EPA 5030B 8015B
Project#: Matrix: Units: Basis: Diln Fac:	8207.005 Soil mg/Kg as received 1.000	Batch#: Sampled: Received: Analyzed:	84805 09/24/03 09/24/03 09/24/03

Field ID: Type:

PIPE1-092403-1

Lab ID:

167747-001

SAMPLE

w •	
	Result
Analyte	13 H V 1.1
Gasoline C7-C12	
	SPRC Jumits
Surrogate	0.1.4.2
Trifluorotoluene (FID)	103 56-144
Duran Elvarobanzana (ETD)	117 51-142

Field ID:

Bromofluorobenzene (FID)

DIES-092403-1

Lab ID:

167747-002

Type:

SAMPLE

Apalyte Result Result	
Analyte 29 H Y 1.0	
asoline C/-C12	
CDRC Timits	

Surrogate Trifluorotoluene (FID) 56-144 51-142 108 Bromofluoropenzene (FID)

Field ID: GASO-092403-1 Type: SAMPLE

Lab ID:

167747-003

Analyte Result Kb
soline C7-C12 ND 2-1
SPEC Limits
Surrogate
LITIOTOCOTRENE (LID)
comofluorobenzene (FID) 116 51-142

Type:

BLANK

Lab ID:

QC226844

* ·			
Analyte	R	esult	Bell
A7 (7.3)	ND		1.0
Gasoine C/-Cia			
Surrogate	%REC	Limits	
	110	56-144	
Trifluorotoluene (FID)		51-142	
Bromofluorobenzene (FID)		<u> </u>	

^{*=} Value outside of QC limits; see narrative
H= Heavier hydrocarbons contributed to the quantitation
Y= Sample exhibits chromatographic pattern which does not resemble standard

ND= Not Detected RL= Reporting Limit Fage 1 Of 1

GC19 TVH 'X' Data File (FID)

Sample Name : 167747-001,84805 FlieName : G:\GC19\DATA\267X005.raw Method : TVHBTXE

Start Time : 0.00 min

End Time : 26.80 min Plot Offset: 5 mV

Scale Factor: 1.0

Sample #: a

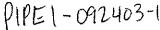
Page 1 of 3

Date: 9/25/03 08:27 AM
Time of Injection: 9/24/03 04:09 PM

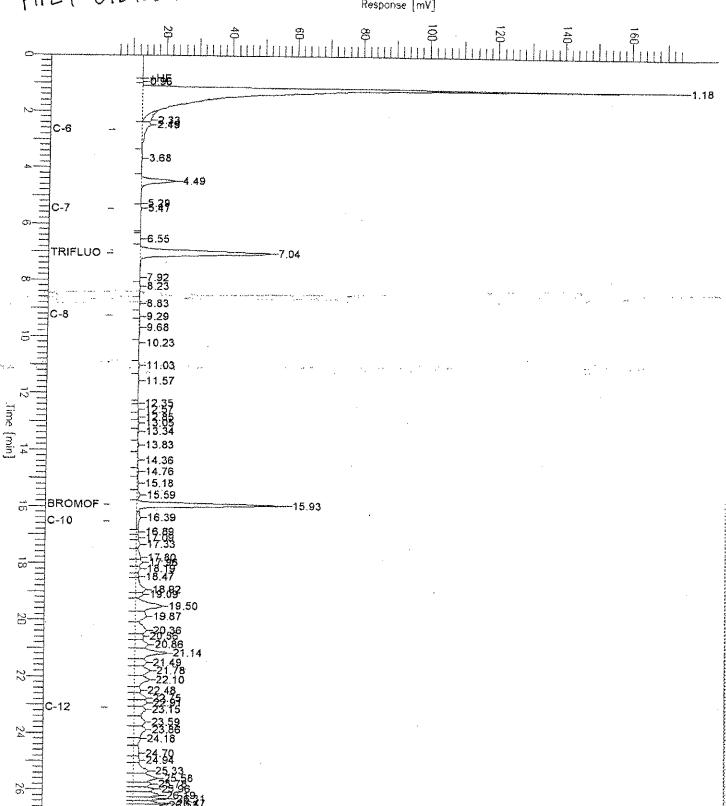
Low Point : 4.62 mV

Plot Scale: 170.4 mV

High Point : 175.00 mV



Response [mV]



GC19 TVH 'X' Data File (FID)

Page 1 of 1 Sample #: a Sample Name : 167747-002,84805 Date: 9/25/03 08:26 AM : G:\GC19\DATA\267X004.raw Time of Injection: 9/24/03 03:35 PM Low Point: 2.53 mV High Po FileName High Point : 215.91 mV : TVHBTXE Method End Time : 26.80 min Start Time : 0.00 min Plot Scale: 213.4 mV Plot Offset: 3 mV Scale Factor: 1.0 Response [mV] DIES-092403-1 C-6 ±5195 1.18 <u>-</u>2,29 -2.98 3.61 ---4.49 5.53 -5.98 6.59 TRIFLUO -8.24 -8.82 9.47 -9,96 8 -10.7<mark>3</mark> -11.07 -11.57 11.98 75 3.34 ≥14:3<u>9</u> --14.78 -15.21 15.58 -15,93 BROMOF --16.21-16.39 16.91 <u>17.82</u> 17.96 19.09 ^{18.90} 19.50 19.76 20.56 20.56 21.15 21.50 -22.08 22.48 -22.91 23.16 -23.57 23.86 24.19 -24.52

GC19 TVH 'X' Data File (FID)

ample Name : ccv/lcs,qc226845,84805,03ws1106,5/5000

: G:\GC19\DATA\267X001.RAW LleName

method Start Time : 0.02 min

End Time : 26.75 min Plot Offset: 8 mV

Sample #:

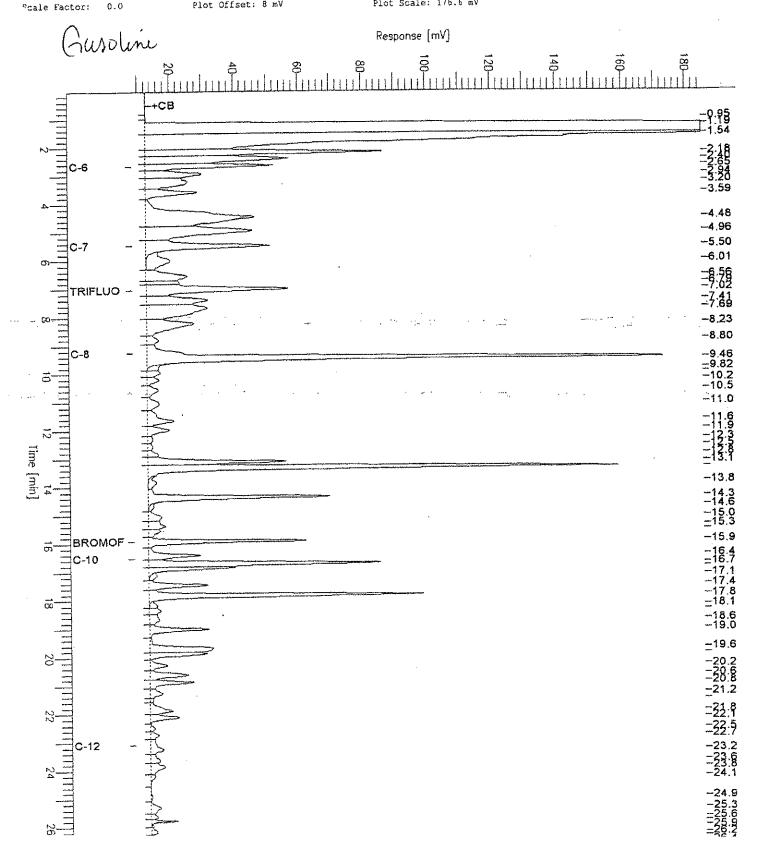
Page 1 of 1

Date: 9/25/03 09:34 AM

Time of Injection: 9/24/03 01:53 PM

Low Point : 8.42 mV High Point: 185.02 mV

Plot Scale: 176.6 mV





·	Total Vola	tile Hydrocarbo	ns
Lab #: Client: Project#:	167747 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 5030B 8015B
Type: Lab ID: Matrix: Units:	LCS QC226845 Soil mg/Kg	Basis: Diln Fac: Batch#: Analyzed:	as received 1.000 84805 09/24/03

Analyte	Spiked	Result	%REC	Limits	el er
Gasoline C7-C12	10.00	10.42	104	80-120	
Gasorine C/-C12					

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	130	56~144	
Bromofluorobenzene (FID)	129	51-142	j



		tile Hydrocarbo	ons
Lab #:	167747	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	8015B
Project#:	8207.005	·	
Field ID:	GASO-092403-1	Diln Fac:	1.000
MSS Lab ID:	167747-003	Batch#:	84805
Matrix:	Soil	Sampled:	09/24/03
Units:	mg/Kg	Received:	09/24/03
Basis:	as received	Analyzed:	09/24/03

Type:

MS

Lab ID:

QC226846

Analyte	MSS Result	Spiked	Result	%RE	C Limits
Gasoline C7-C12	<0.06600	9.524	8.421	88	24-134

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	126	56-144	
Bromofluorobenzene (FID)	122	51-142	A Committee of the Comm

Туре:

MSD

Lab ID:

QC226847

Analyte	Spiked	Result	%RE(Limits	RPD	Lim
Gasoline C7-C12	9.804	8.583	88	24-134	1.	3.2

Surrogate	%REC	Limits	
Trifluorotoluene (FID)	122	56-144	
Bromofluorobenzene (FID)	118	51-142	



Total Extractable Hydrocarbons SHAKER TABLE 167747 Lab #: EPA 8015B Analysis: Geomatrix Consultants Client: 8207.005 Project#: Matrix: 09/24/03 09/24/03 09/25/03 Sampled: Soil Received: mg/Kg Units: Prepared: as received Basis:

Field ID:

Batch#:

PIPE1-092403-1

Type: Lab ID:

167747-001

84816

Diln Fac: Analyzed: 09/25/03

SAMPLE

Cleanup Method:

EPA 3630C

Analyte Diesel Clo-C24

200 L

1.0

Limits Surrogate 36-141 121 Hexacosane

Field ID: Type: Lab ID:

DIES-092403-1

SAMPLE

167747-002

Diln Fac:

20.00

Analyzed: Cleanup Method:

09/26/03 EPA 3630C

Analyte Ana Diesel C10-C24

Result 2,600 L

RL

20

%REC Limits 36-141 Hexacosane

Field ID: Lab ID:

GASO-092403-1

SAMPLE Type:

167747-003

Diln Fac:

Analyzed:

1.000

09/25/03 Cleanup Method: EPA 3630C

Analyte

Diesel C10-C24

Result 0.99

Surrogate

*REC Limits

Hexacosane

ND

Type: Lab ID: BLANK QC226888 Analyzed:

09/25/03 Cleanup Method: EPA 3630C

Diln Pac:

1.000

Result

Analyts
Diesel C10-C24

1.0

Surrogate

Hexacosane

%REC Limits 36-141 109

L= Lighter hydrocarbons contributed to the quantitation DO= Diluted Out ND= Not Detected RL= Reporting Limit Page 1 of 1

13.1

Chromatogram

Sample Name : 167747-001sg,84816

: G:\GC15\CRB\268B008.RAW FileName

Method

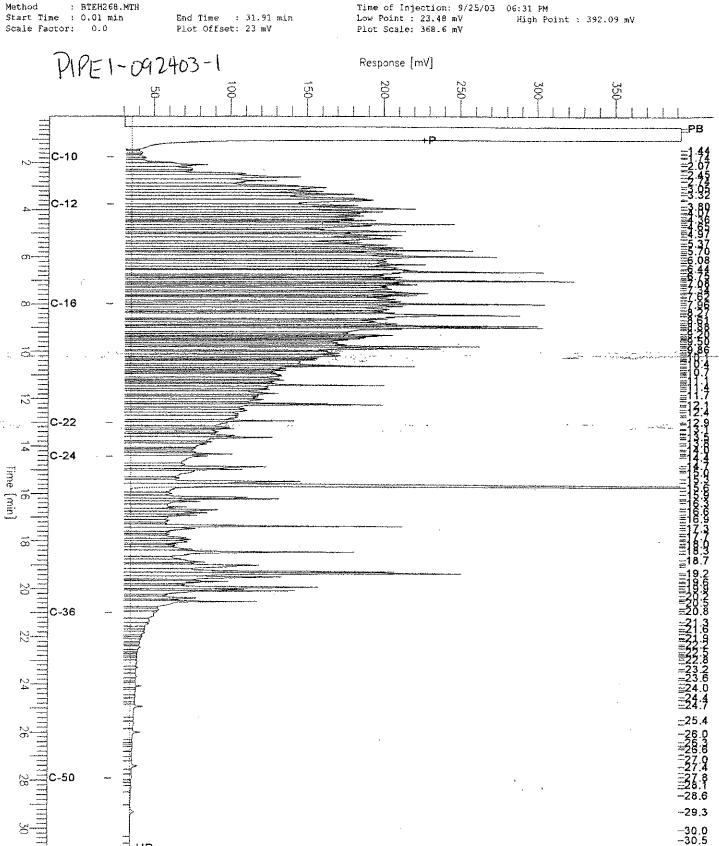
Start Time : 0.01 min

Sample #: 84816

Page 1 of 1

Date: 9/26/03 09:13 AM

Time of Injection: 9/25/03 06:31 PM



Chromacogram

Sample Name : 167747-002sg,84816 FileName : G:\GC13\CHB\268B030

: G:\GC13\CHB\268B030.RAW

: BTEH264.MTH Method

Start Time : 0,01 min

End Time Plot Offset: 29 mV

: 31.91 min

Sample #: 84816 Date : 9/26/03 01:20 PM

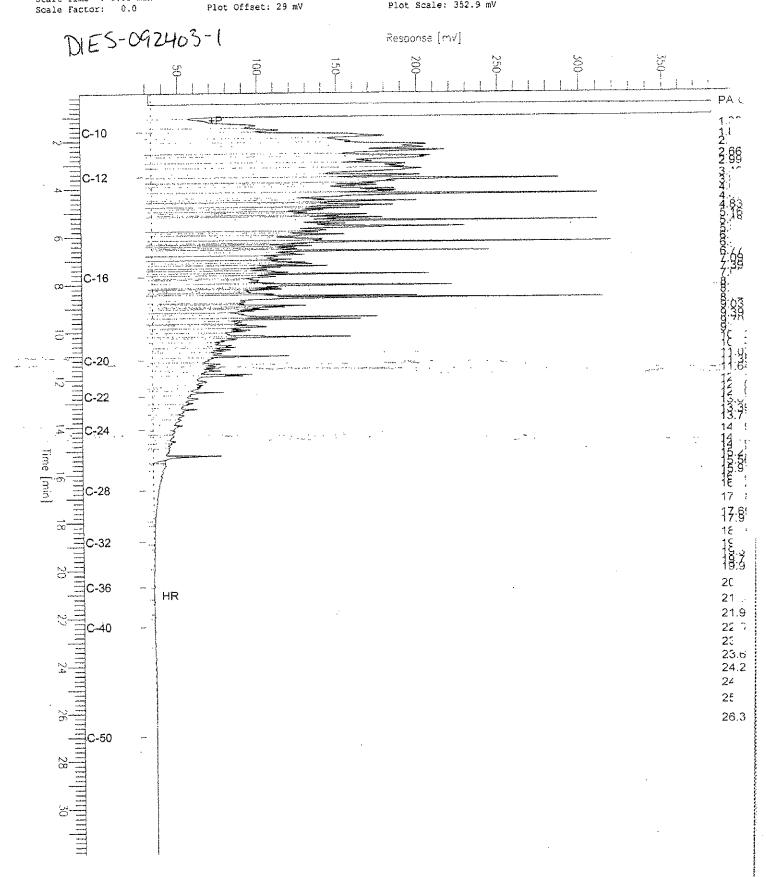
Time of Injection: 9/26/03 12:47 PM

Low Point : 28.86 mV

High Point : 381.80 mV

Page 1 of 1

Plot Scale: 352.9 mV



Chromatogram

Sample #: 500mg/L Pa
Date: 9/25/03 11:17 AM
Time of Injection: 9/25/03 10:15 AM
Low Point: 26.35 mV High Po
Plot Scale: 384.0 mV Page 1 of 1 ple Name : ccv,03ws1374,ds1 _eName : G:\GC11\CHA\268A002.RAW : ATEH267.MTH High Point: 410.33 mV Lihod : 31.91 min Start Time : 0.01 min End Time Plot Offset: 26 mV 3cale Factor: 0.0 Response [mV] _____C-24 +CB HR



	Total Extra	ctable Hydroca:	cbons
Lab #:	167747	Prep:	SHAKER TABLE
Client:	Geomatrix Consultants	Analysis:	EPA 8015B
Project#:	8207.005		
Type:	LCS	Díln Fac:	1.000
Lab ID:	QC226889	Batch#:	84816
Matrix:	Soil	Prepared:	09/25/03
Units:	mg/Kg	Analyzed:	09/25/03
Basis:	as received	-	

Cleanup Method: EPA 3630C

Analyte	Spiked	Result	#REC	Limits
Diesel Clo-C24	50.13	59.88	119	49-129

Surrogate	\$REC	Limits	
Hexacosane	116	36-141	



Total Extractable Hydrocarbons Lab #: 167747 Prep: SHAKER TABLE Client: Geomatrix Consultants Analysis: EPA 8015B Project#: 8207.005 Field ID: ZZZZZZZZZ Batch#: 84816 MSS Lab ID: 167723-001 Sampled: 09/22/03 Matrix: Soil Received: 09/23/03 Units: mg/Kg Prepared: 09/25/03 Basis: as received Analyzed: 09/25/03 Diln Fac: 1.000

ype:

MS

Lab ID:

QC226890

Cleanup Method: EPA 3630C

Result %REC Limits RPD Lim

Analyte	MSS Result	Spiked	Result	*RE	C Limits
Diesel C10-C24	18.74	50.07	66.60	96	32-134
Surrogate	%REC Limits				
Hexacosane	110 36-141				

...Туре:

Cleanup Method: EPA 3630C

QC226891

Diesel Cio-C24	49.99	72.81	108	32-134	9	48
	%RBC Limits					
Hexacosane	123 36-141				22222 2 2222	100A++ 8 2010 + 3

Spiked



	Purgeable	Aromatics by GC	/MS
ab #: lient:	167747 Geomatrix Consultants	Prep: Analysis:	EPA 5030B EPA 8260B
Project#: Field ID: Lab ID: Matrix: Units: Basis:	8207.005 PIPE1-092403-1 167747-001 Soil ug/Kg as received	Diln Fac: Batch#: Sampled: Received: Analyzed:	0.9434 84791 09/24/03 09/24/03 09/24/03

4.7
4.7
4.7
4.7
4.7
_

	520,150,000,000	C timits
Surrogate	KK	
1,2-Dichloroethane-d4	105	76~130
1,2-Dichioroechane al	O. ***	80-120
Toluene-d8	97	
Bromofluorobenzene	. 89	76-125 · · · · · · · · · · · · · · · · · · ·
A. RIOHOTIOCOPOLINGIA		

ND= Not Detected RL= Reporting Limit Page 1 of 1



	Purgeable	Aromatics by G	C/MS
Lab #:	167747	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005	-	
Field ID:	DIES-092403-1	Diln Fac:	0.9615
Lab ID:	167747-002	Batch#:	84791
Matrix:	Soil	Sampled:	09/24/03
Units:	ug/Kg	Received:	09/24/03
Basis:	as received	Analyzed:	09/24/03

Analyte	Result	RL	
MTBE	17	4.8	· · · · · · · · · · · · · · · · · · ·
Benzene	8.3	4.8	•
Toluene	53	4.8	
Ethylbenzene	5,1	4.8	
m,p-Xylenes o-Xylene	9.3	4.8	
o-Xylene	ND	4.8	

-	Surrogate	%REC	Limits	
	1,2-Dichloroethane-d4	103	76-13.0	The second secon
	Toluene-d8	98	80-120	
- [Bromofluorobenzene	134 *	76-125	

Robert Bolling Burgham Co.

^{*=} Value outside of QC limits; see narrative ND= Not Detected RL= Reporting Limit Page 1 of 1



	purgeable.	Aromatics by GC	
7 11	167747	Prep:	EPA 5030B
ab #:	Geomatrix Consultants	Analysis:	EPA 8260B
Client:	8207.005		
Project#:	GASO-092403-1	Diln Fac:	0.9615
Field ID:	167747-003	Batch#:	84833
Lab ID:		Sampled:	09/24/03
Matrix:	Soil	Received:	09/24/03
Units:	ug/Kg	Analyzed:	09/25/03
Basis:	as received		

	Result	RL	<u>.:</u>
Analyte	ND	4.8	
MTBE	ND	4:.8	
Benzene	ND ·	4.8	
Toluene Ethylbenzene	ND	4.8	
m n-Yulanes	ND	4.8	
m,p-Xylenes o-Xylene	. ND	4.8	

Surrogate	%RBC	C Limits	{
1,2-Dichloroethane-d4	106	76-130	
Toluene-d8	101	80-120	
Bromofluorobenzene	97	76-125	ا بـــا



Purgeable Aromatics by GC/MS

Lab #: 167747 Prep: EPA 5030B Client: Geomatrix Consultants Analysis: EPA 8260B Project#: 8207.005

Type: BLANK Basis: as received Lab ID: QC226774 Diln Fac: 1,000 Matrix: Soil Batch#: 84791 Units: ug/Kg Analyzed: 09/24/03

MTBE	ND	5.0	and the second distance of the control of the second of th
Benzene	ND	5.0	
Toluene	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	5.0	
o-Xylene	ND	5.0	

Surrogate	%RE	C Limits		
1,2-Dichloroethane-d4	104	76-130		
Toluene-d8	98	80-120	· •	
Bromofluorobenzene	93	76-125		The state of the second of the



	Purgeable	Aromatics by GC	/MS
Lab #: Client:	167747 Geomatrix Consultants	Prep: . Analysis:	EPA 5030B EPA 8260B
Project#: Type: Lab ID: Matrix: Units:	8207.005 BLANK QC226961 Soil ug/Kg	Basis: Diln Fac: Batch#: Analyzed:	as received 1.000 84833 09/25/03

	Result	THE STATE OF THE S	
Analyte	ND	5.0	
MTBE	ND	5.0	
Benzene Toluene	ND	5.0	
Ethylbenzene	ND	5.0	
m,p-Xylenes	ND	· 5.0	
o-Xylene	ND ·	5.0	

Surrogate	%REC	C Limits
1,2-Dichloroethane-d4	109	76-130
Toluene-d8	101	80-120
Bromofluorobenzene	110	76-125
Bromoringionenzenc		



	Purgeable	Aromatics by GO	:/MS
Lab #:	167747	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Type:	LCS	Basis:	as received
Lab ID:	QC226773	Diln Fac:	1.000
Matrix:	Soil	Batch#:	84791
Units:	ug/Kg	Analyzed:	09/24/03

Analyte	Spiked	Result	₹RE	C Limits
Benzene	50.00	46.37	93	78-120
Toluene	50.00	46.11	92	79-120

Surrogate	%REC	Limits	
1,2-Dichloroethane-d4	100	76-130	,
Toluene-d8	96	80-120	·
Bromofluorobenzene	88	76-125	



	Purgeable	Aromatics by GC	:/MS	
Lab #:	167747	Prep:	EPA 5030B	
Client:	Geomatrix Consultants	Analysis:	EPA 8260B	
Project#:	8207.005			{
Type:	LCS	Basis:	as received	l
Lab ID:	QC226960	Diln Fac:	1.000	
Matrix:	Soil	Batch#:	84833	
Units:	ug/Kg	Analyzed:	09/25/03	

Analyte	Spiked	Result	⊹%REC	Limits
Benzene	50.00	50.56	101	78-120
Toluene	50.00	47.40	95	79-120

Surrogate	%RBC	Limite	
1,2-Dichloroethane-d4	112	76-130	
Toluene-d8	100	80-120	
Bromofluorobenzene	105	76-125	



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Lab #:	167747	Prep:	EPA 5030B
Client:	Geomatrix Consultants	Analysis:	EPA 8260B
Project#:	8207.005		
Field ID:	DIES-092403-1	Diln Fac:	0.9615
MSS Lab ID:	167747-002	Batch#:	84791
Matrix:	Soil	Sampled:	09/24/03
Units:	ug/Kg	Received:	09/24/03
Basis:	as received	Analyzed:	09/24/03

Type:

MS

Lab ID:

QC226815

Analyte	MSS Result	Spiked	Result	%REC	Limits
Benzene	8.304	48.08	60.51	109	55-121
Toluene	53.46	48.08	116.2	130 *	44-129

Surrogate	%REC	Limits			
1,2-Dichloroethane-d4	106	.76-130 -	, ⁷⁷⁷ 6 419	2 1 1	 ·
Toluene-d8	97	80-120			
Bromofluorobenzene	169 *	76-125			

Type:

MSD

Lab ID:

QC226816

Analyte	Spiked	Result	%REC	Limits	RPD	Lim
Benzene	48.08	61.23	110	55-121	1	20
Toluene	48.08	120.4	139 *	44-129	4	20

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	106	76-130
Toluene-d8	99	80-120
Bromofluorobenzene	150 *	76-125

^{*=} Value outside of QC limits; see narrative
RPD= Relative Percent Difference
Page 1 of 1



	Purgeable .	Aromatics by GC	/мѕ
Lab #: Client:	167747 Geomatrix Consultants	Prep: Analysis:	EPA 5030B EPA 8260B
Project#: Field ID: MSS Lab ID: Matrix: Units: Basis:	8207.005 2222222222 167759-001 Soil ug/Kg as received	Diln Fac: Batch#: Sampled: Received: Analyzed:	0.9615 84833 09/23/03 09/23/03 09/25/03

Type:

MS

Lab ID:

QC226970

	MSS Regult	Spiked	Result	%REC	Limits
Anal	yte mss Aesure <0.07800	48.08	38.87	81	55-121
Benzene	<0.1900	48.08	33.99	71	44-129
Toluene	<0.1300				

Surrogate	%REC	Limits		
1,2-Dichloroethane-d4	109	76-130		,
Toluene-d8	. 100	80-120	••	
BromofluoroBenzene	89	.76-125		·
. BIOMOLIGOLOGICA GAL				

Type:

MSD

Lab ID:

QC226971 ..

	Spiked	Result	*REC	Limits	RPD	Lin
Analyt	48.08	39.55	82	55-121	2	20
Benzene		34.59	72	44-129	2	20
Toluene	48.08	2.2.2.2				

Surrogate	%REC	Limits
1,2-Dichloroethane-d4	105	76-130 ⁻
Toluene-d8	98	80-120
Bromofluorobenzene	90	76-125



		Lead	
Lab #: Client:	167747 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 3050 EPA 6010B
Project#: Analyte: Matrix: Units: Basis: Diln Fac:	Lead Soil mg/Kg as received 1.000	Batch#: Sampled: Received: Prepared: Analyzed:	84812 09/24/03 09/24/03 09/24/03 09/25/03

,	Field ID	Type	Lab ID	Resul	t	RL
			167747-001	9	0.7	0.14
. 1	DIES-092403-1	SAMPLE	167747-002	6	5.5	0.12
	GASO-092403-1	SAMPLE	167747-003	3	1.2	0.14
		BLANK	QC226864	ND .		0.15



		Lead	
Lab #: Client:	167747 Geomatrix Consultants 8207.005	Prep: Analysis:	EPA 3050 EPA 6010B
Project#: Analyte: Matrix: Units: Basis:	Lead Soil mg/Kg as received	Diln Fac: Batch#: Prepared: Analyzed:	1.000 84812 09/24/03 09/25/03

							remove the second color of the
10002400000	Lab ID	Spiked	Result	%REC	: Limits RF	D Lim	
BS	OC226865	100.0	89.00	89	71-120		
BSD	QC226866	100.0	89.00	89	71-120 0	20	
BSD	QCZZGGGG						



		Lead	
Lab #:	167747	Prep:	EPA 3050
Client:	Geomatrix Consultants	Analysis:	EPA 6010B
Project#:	8207,005		
Analyte:	Lead	Diln Fac:	1.000
Field ID:	ZZZZZZZZZZ	Batch#:	84812
MSS Lab ID:	167688-002	Sampled:	09/17/03
Matrix:	Soil	Received:	09/19/03
Units:	mg/Kg	Prepared:	09/24/03
Basis:	as received	Analyzed:	09/25/03

Type	Lab ID	MSS Result	Spiked	Result		C Limits	RPD Lim
MS	QC226867	4.453	99.50	79.10	75	23-137	
MSD	QC226868		86.21	68.10	74	23-137	1 40



Appendix C

Uniform Hazardous Waste Manifests and Certificates of Destruction

-	wint or type. Form designed for use on elite (12-pitch) typewriter.	PRAIN II.	16 . 5			.	Sacramento, Californ
T	UNIFORM HAZARDOUS WASTE MANIFEST	t	nifest Docume		2. Page T		on in the shaded arec wired by Federal law.
L	3. Generator's Name and Mailing Address	2501421	7 5			<u> </u>	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
ı	BITE: P	ORT OF GARLAND		A. Store A	tanifest Document	Number	229076
l	1 130 WATER ALBERT	AMMART ROAD, BLOG ! AKLAND, CA 94507	L 3 {}.	9 61-7-5		·····	223010
ı	ATTH: D	AMH CRAYER		s. signa G	enerator's ID		
	5. Transporter 1 Compony Name	6. US EPA ID Number		C 83-1- 7		<u> </u>	
ı		V) WV LIM ID HUMBER		C. Signe 17	ansporter's ID (Re	served.	
	DITTADA FEVIDOSKERENT CONO			D. Transpo	orter's Phone		
ı	7. Transporter 2 Company Name	8. US EPA ID Number	11313	E. State Tr	ansporter's ID Re	served.	25) 53 1 6350
ı				£ Tuesta	rter's Phone	···-	
ı	9. Designated Facility Name and Site Address	10. US EPA ID Number		G. State Fo			
ľ	COLOGY COSTROL ISOSSTELLS	IV. OO EFA ID 17digber		O. Sidle Fo	acinity's iD	1 3 1	l i in terminal di s
1	235 PARR BLVD			H. Facility'	s Phone	LL	
l	RICONORD, CA 94001				235-3393		
ı	11. US DOT Description (including Proper Shipping Name, Hazard Cla	sex and ID Number	12. Cor		13. Total	14. Unit	1
			No.	Туре	Quantity	Wi/Vol	I. Waste Number
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							orare .
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	J. Additional Descriptions for Materials Listed Above		1_1_	K Handling	Codes for Waste	t listed Abov	- Fig.
	tha a in a inc a in			a.	,	b.	74
	* ; 31023 ** ; 31024 *						
				¢.	7 47	d.	
	15 Sector West Land Control of A 3 (s) As S	**************************************					
	15. Special Handling Instructions and Additional Information 시간자는 토니다 다고도	•	•				
	Tank throne \$65-39-01, North throne \$20	1278			•		
	84.						
		(323) 534 SH30 - 188	ER PROP	er pun	merias ro	u : PMC u	I (PPE)
. 1	 GENERATOR'S CERTIFICATION: I hereby declare that the contents marked, and labeled, and are in all respects in proper condition for 	of this consignment are fully and accu	orately describ	ed above by	proper shipping no	ame and are	classified, packed,
	. , , , , , , , , , , , , , , , , , , ,	. Hampers by marriedy decerting to				_	
						ave determin	ned to be economica
	If I am a large quantity generator, I certify that I have a program	in place to reduce the volume and	toxicity of wa	te generaled	to the degree I h		
	If I am a large quantity generator, I certify that I have a program practicable and that I have selected the practicable method of treat and the environment; OR, if I am a small quantity generator, I have provided that I am on find a manifest of the I am of	in place to reduce the volume and men), storage, or dispessit currently e-made a good stock story to minim	toxicity of war available to i nize my waste	te generated ne which mir generation o	I to the degree I h simizes the presen and select the best	t and future t wasie man	threat to human hea agement method that
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		1. Generator	s US EPA ID No.	Manif	est Document	t No.	2. Page !	Informatio	n in the shaded areas
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3. Generator's Name and Mailing Address SITE: PURT OF ON PORT ON OARLAND 530 WATER STREET OAKLAND, CA 94567 4. Generator's Phone (510) 527-1134	DAD, BLDG 1311 (2) CA 94607 (6.	State Generator's ID	229076
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11. US DOT Description (including Proper Shipping Name, Hazard Class, and ID Number a Will RURA NAMESTEUS WASTE, SOLID, (PERVICE)	ber) 12, Contain	ers 13. Total Type Quantity	14. Unit Wt/Vol L. Waste Number
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15. Special Handling Instructions and Additional Information	第四个人的 第二章		
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3. Generator's Name and Mailing Add	ress GITE:		<u> </u>	A. State J	Manifest Document	Number	220076
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20. Facility Owner or Operator Certification of receipt of hazardous materials covered by this manifest except as noted in Item 19.

Printed/Typed Name

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Appendix D
Backfill Geotechnical **Testing Report**

COMPACTION TEST REPORT Curve No. 137.0 ZAV SpG 2.7 **Test Specification:** 134.5 ASTM D 1557-00 Method C Modified Oversize correction applied to each point Hammer Wt.: 10 lb. Dod 'fallow' bcd Dod 'f Hammer Drop: 18 in. Number of Layers: Blows per Layer: Mold Size: .075 cu.ft. Test Performed on Material Passing 3/4 in. Sieve Soil Data 127.0 **Sp.G.** 2.7 ____ PI ____ %<#200 %>3/4 in. _7.1_ USCS AASHTO ____ 124.5 Water content, % **TESTING DATA** 6 16.65 16.08 16.83 WM + WS 16.66 6.08 6.08 WM 6.08 6.08 WW + T#1 705.80 742.30 679.90 948.00 866.00 WD + T #1 668.80 692.30 652.70 TARE #1 96.00 97.60 96.70 99.00 WW + T #2 WD + T #2 TARE #2 4.7 10.1 MOISTURE 6.2 8.0 132.4 129.6 131.9 DRY DENSITY 134.8 **Material Description UNCORRECTED ROCK CORRECTED TEST RESULTS** Green Sandy GRAVEL Maximum dry density = 135.0 pcf 132.7 pcf 6.8 % Optimum moisture = 6.4 % Remarks: Project No. 109-374 Client: Geomatrix Project: 8900 Earhart, Oakland - 8207.005 · Location: Backfill COMPACTION TEST REPORT **COOPER TESTING LABORATORY Figure**