March 94

UNDERGROUND STORAGE TANK CLOSURE DOCUMENTATION REPORT ARATEX SERVICES, INC.
OAKLAND, CA

PREPARED FOR ARATEX SERVICES, INC. SCHAUMBURG, IL

PREPARED BY RMT, INC. MARINA DEL REY, CA

MARCH 1994

/ Jame's W. Van Nortwick, Jr., Ph.D., P.E.

Project Manager

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RMT, INC. — LOS ANGELES
4640 ADMIRALTY WAY SUITE 301
MARINA DEL REY, CA 90292-6621
310/578-1241 310/821-3280 FAX

March 16, 1994

Ms. Jennifer Eberle

Alameda County Health Care Service Agency
Department of Environmental Health
UST Local Oversight Program
80 Swan Way, Room 200
Oakland, CA 94621

RE:

UNDERGROUND STORAGE TANK CLOSURE DOCUMENTATION REPORT

Aratex Services, Inc., 330 Chestnut Street, Oakland, California

Dear Ms. Eberle:

On September 29, 1993, three underground storage tanks were removed from the referenced facility in compliance with the Alameda County Health Care Service Agency, Department of Environmental Health (ACHCSA) regulations and permits.

No visual evidence of impact damage, holes, pitting, corrosion, or contamination were apparent during the gasoline and diesel fuel storage tank removal activities and the tanks appeared structurally sound. Some pitting and corrosion was observed on the bottom of the mop oil tank during removal activities, however, the integretity of the tank did not appear to be compromised veridence of a diesel fuel release was identified in the vicinity of the diesel fuel dispenser vault area and the fuel regulator located along the loading dock wall. In addition, evidence of a product release was also identified in the mop oil tank excavation. The results of additional soil sampling activities indicated that the extent of diesel fuel-impacted soil was limited to the area immediately surrounding the dispenser vaults and diesel fuel regulator. Based on these findings, additional soil excavation activities were conducted in January 1994.

The results of the tank removal activities and additional soil excavation and sampling activities are presented in the enclosed underground storage tank removal documentation report. If you have any questions or comments please feel free to contact me at (310) 578-1241.

Sincerely.

Janles W. Van Nortwick, Jr., Ph.D., P.E.

Project Manager

Enc: Underground Storage Tank Closure Documentation Report

cc: Robert J. Robbins, C.P.G.

Phillip Krejci File: 505/Tanks



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RMT REPORT

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Section 1 INTRODUCTION

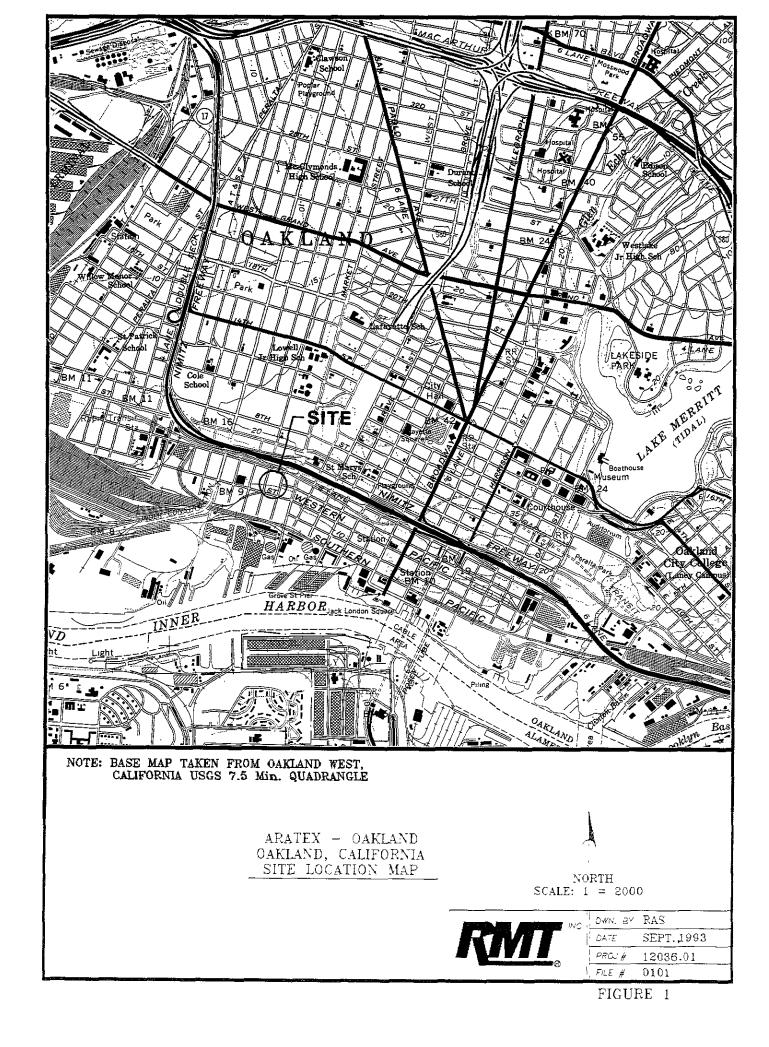
1.1 Background

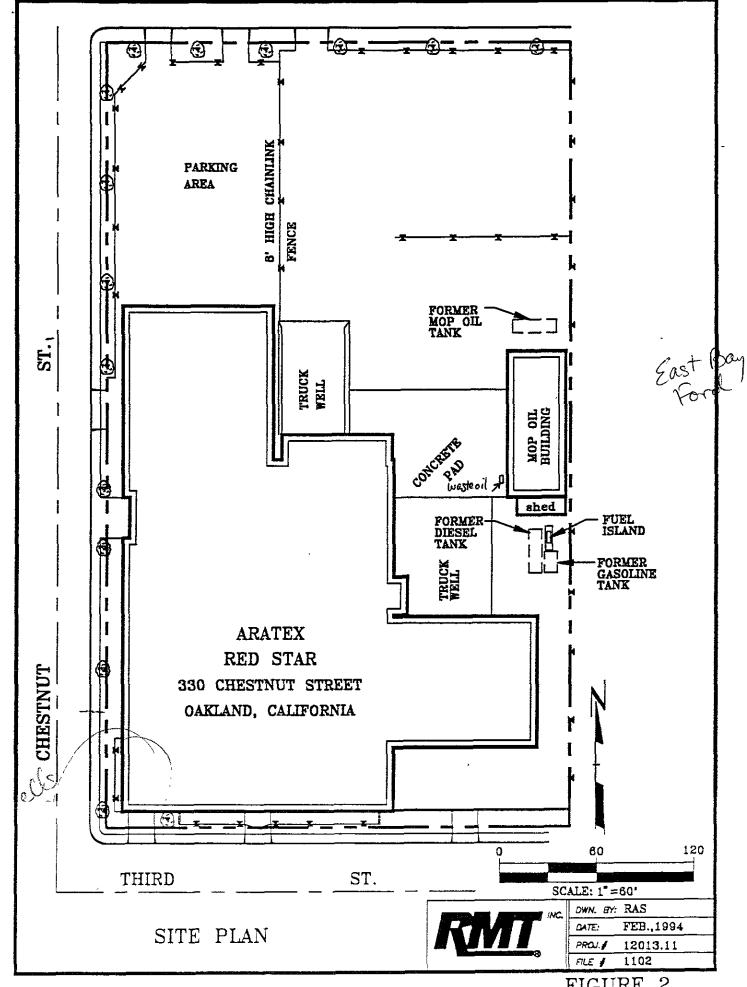
Aratex Services, Inc., (ARATEX) owns and operates an industrial laundry facility located at 330 Chestnut Street in Oakland, California. Two single walled, steel, underground petroleum hydrocarbon storage tanks were maintained at this facility to supply fuel for the delivery vehicles. In addition, an underground mop oil storage tank was also maintained at the facility. RMT, Inc. (RMT) was retained by ARATEX to document the removal and disposal of the underground storage tanks and perform soil sampling as required by the Alameda County Health Care Service Agency, Department of Environmental Health (ACHCSA). ARATEX arranged with Paradiso Construction Company (Paradiso) to provide for the tank removal. Paradiso was responsible for the means and methods of the residual product removal and disposal, tank removal, excavation backfilling, and their necessary health-and-safety considerations. Copies of the ACHCSA and City of Oakland tank removal permits, uniform hazardous waste manifest, tank destruction certificate, ACHCSA inspection forms, City of Oakland inspection reports, chain-of-custody documents, and laboratory reports are presented in the appendices.

The approximate dimensions and capacities of each tank are summarized in Table 1. All three underground storage tanks were installed approximately 15 years ago and were located approximately 2.5 ft to 3.5 ft below ground surface (bgs) along the eastern property boundary near the mop oil building. A general area map is presented in Figure 1, a site plan of the facility showing the former location of the underground gasoline storage tank is shown in Figure 2.

TABLE 1
Underground Storage Tank Information

Tank Contents	Tank Dimensions	Tank Capacity
Gasoline	8-ft Diameter x 13-ft Length	5,000-gallons >
Mop Oil	8-ft Diameter x 27-ft Length	10,000-gallons
Diesel Fuel	8-ft Diameter x 32-ft Length	12,000-gallons





2 FIGURE

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1.2 Purpose and Scope

The purpose of this report is to provide written documentation of the underground tank removal activities, additional soil sampling activities, and soil excavation activities in compliance with ACHCSA tank closure regulations. The scope of RMT's documentation is limited to the following:

- Observation of the tank removal activities related to the 5,000-gallon gasoline tank, the 10,000-gallon mop oil tank, and the 12,000-gallon diesel fuel tank (tank decontamination, excavation, and backfilling procedures, and condition of the tank, piping, and surrounding soils).
- Air monitoring, soil sampling, laboratory analyses, and interpretation of results.
- Additional soil sampling activities to determine the extent of petroleum hydrocarbonimpacted soil.
- Observation of soil excavation and disposal activities.
- Preparation of tank closure documentation report including copies of permits, soil disposal manifests, tank destruction certification, site inspection reports, and laboratory results (as provided by the involved parties).

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Section 2 TANK REMOVAL ACTIVITIES

2.1 Tank Removal Permits

Underground storage tank removal permits were received from the Alameda County Health Care Services Agency, Department of Environmental Health, Hazardous Materials Division and the City of Oakland on July 23, 1993, and tank removal activities were initiated on June 28, 1993. Copies of the tank removal permits are included in Appendix A.

2.2 Excavation of Overburden

The underground storage tank removal activities were conducted by Paradiso Construction Company of San Leandro, California. Tank removal activities included the removal of the asphalt overlying the tanks, the excavation of the overburden soil to expose the tanks, and the removal of the tanks from the excavations. The asphalt material and soil removed from the excavations were stockpiled on-site.

During soil excavation activities the presence of potential soil contamination was continuously monitored using visual indications as well as an organic vapor monitor (OVM). Although no evidence of petroleum contamination was observed in the overburden soil or soil surrounding the gasoline tank piping, OVM measurements recorded in the vicinity of the diesel fuel fill pie and dispenser identified the presence of vapor-phase volatile organic compounds (VOC).

2.3 Pumping, Rinsing, and Degassing

Prior to initiating degassing activities, approximately 400 gallons of petroleum hydrocarbons and rinsate were removed from the petroleum product storage tanks and transported by Erickson, Inc., (Erickson) of Richmond, California, for disposal at Gibson Oil/Pilot Petroleum in Redwood City, California. A copy of the hazardous waste manifest is presented in Appendix B.

The tanks were degassed by venting off-gases and by the addition of approximately 50 lbs of dry ice per 1,000 gallons of tank capacity to the inside of the each tank until LEL readings were below 10 percent. The LEL reading was certified by a representative of the City of Oakland, Fire Prevention Bureau before the tank was removed from the excavation. Copies of the City of Oakland inspection reports are presented in Appendix C.

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2.4 Tank Removal Procedures

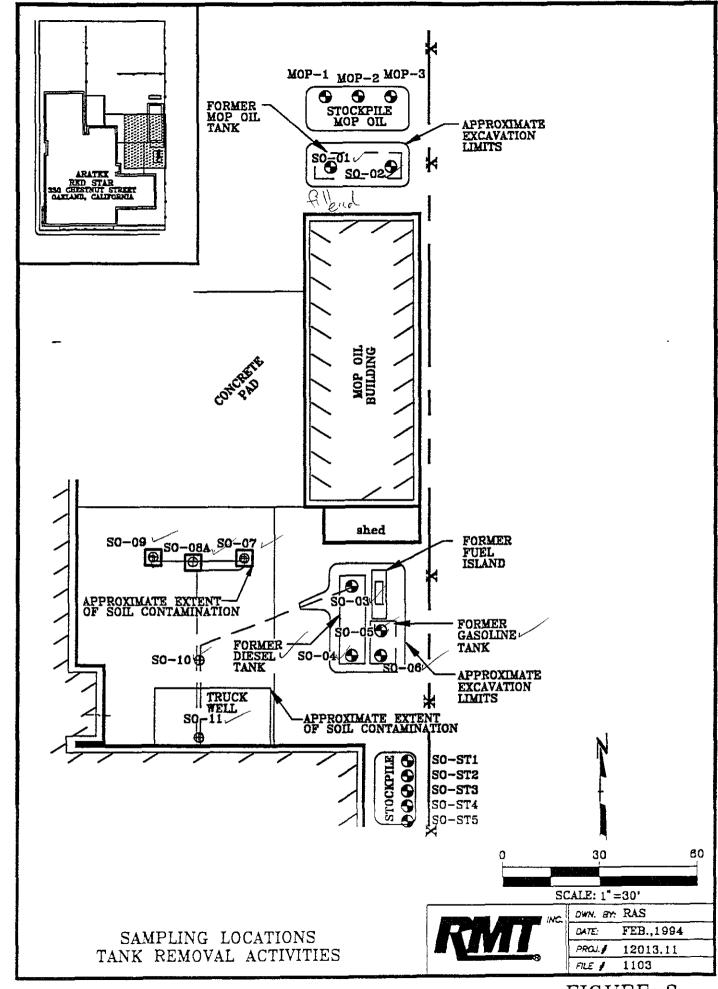
When tank degassing operations had been completed, the storage tanks were removed from the excavations and inspected for structural integrity and evidence of corrosion. All tank seams and welds were scraped and inspected for holes or cracks. No signs of impact damage, holes, pitting, or corrosion were apparent and the petroleum product tanks appeared structurally sound. Although some pitting and corrosion was observed in the bottom of the mop oil tank, no signs of impact damage or holes were noted and the tank appeared to be structurally sound. All tanks were transported from the site by Erickson of for destruction at the Erickson facility. The tank disposal manifests and destruction certificates are presented in Appendix p.

The presence of potential soil contamination was monitored during tank removal activities using visual indications and an OVM. Evidence of product releases were observed in the soils immediately underlying the mop oil tank and surrounding the diesel fuel fill pipe and dispensers.

A representative of the ACHCSA was on-site during the tank removal activities and inspected the tanks, excavation areas, and stockpiled soils. Approximately 100 yds³ of soil were removed from the gasoline/diesel fuel tank excavation and stockpiled on-site pending chemical analyses. In addition, approximately 75 yds³ of soil removed from the mop oil excavation was also stockpiled on-site pending chemical analyses. Groundwater was not encountered during the petroleum product tank removal activities, however, a small amount of groundwater was encountered during the removal of the mop oil tank. ACHCSA inspection forms are included in Appendix E and photographs documenting the tank removal activities are presented in Appendix F.

2.5 Soil Sampling Procedures

The stratigraphy at the site, in the vicinity of the excavation, consists primarily of sandy silty clay. Soil sampling activities were conducted after tank excavation activities had been completed. Soil samples were collected from the north and south ends of the gasoline and diesel fuel tank excavation floors at a depths ranging between approximately 11.5 ft to 13 ft bgs. Soil samples were also collected from the floor of the east and west ends of the mop oil excavation floor at a depth of approximately 14 ft bgs. Soil sampling locations were selected based on OVM readings and instructions from Ms. Jennifer Eberle, of the ACHCSA. Composite samples of the overburden soil removed from the gasoline/diesel fuel excavation area and mop oil excavation were also collected for chemical analyses at the request of the ACHCSA. A site plan showing the soil sampling locations is presented in Figure 3.



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The soil samples were collected by RMT using a stainless steel sampler. The sampler was decontaminated prior to sampling and between each sampling event by scrubbing with tri-sodium phosphate (TSP) and rinsing with organic-free deionized water to minimize the possibility of sample contamination. All soil samples were placed in glass sampling jars equipped with teflon lids, capped, sealed, and stored on ice pending shipment to a California certified independent laboratory following standard chain-of-custody procedures.

2.6 Chemical Analyses of Soil

Soil samples collected from the floor of the gasoline/diesel fuel excavation and the stockpiled overburden soil were analyzed for the presence of total petroleum hydrocarbons as gasoline (TPH-G) and diesel (TPH-D), benzene, toluene, ethylbenzene, and xylenes (BTEX), and organic lead using a California modified EPA SW-846 Method 8015, Method 8020, and Flame Atomic Absorption, respectively. Soil samples collected from the floor of the mop oil excavation were analyzed for the presence of total recoverable petroleum hydrocarbons (TRPH), and TPH-G, TPH-D, TPH as mineral spirits (TPH-MS), TPH as kerosene (TPH-K), and TPH as motor oil (TPH-MO), using a EPA SW-846 Method 418.1 and Method 8015M, respectively. The analytical procedures used in analyzing the soil samples collected from the mop oil excavation were selected based on the composition of the mop oil and conversations with Ms. Jennifer Eberle of the ACHCSA. A copy of the Material Safety and Data Sheet for the mop oil is included in Appendix G.

In addition, composite soil samples collected form the stockpiled overburden soil removed from the mop oil excavation were analyzed for TRPH using EPA SW-846 Method 418.1. The results of the chemical analyses performed on the soil samples are summarized in Table 1 and presented in Figures 4 and 5.

A copy of the laboratory report is presented in Appendix H.

2.7 Excavation Backfill and Surface Restoration

Following soil sampling analyses, the gasoline/diesel fuel tank excavation and the mop oil excavation were backfilled with a mixture of imported fill material and the overburden soil. The excavation area was covered with asphalt and paved to match the existing grade.

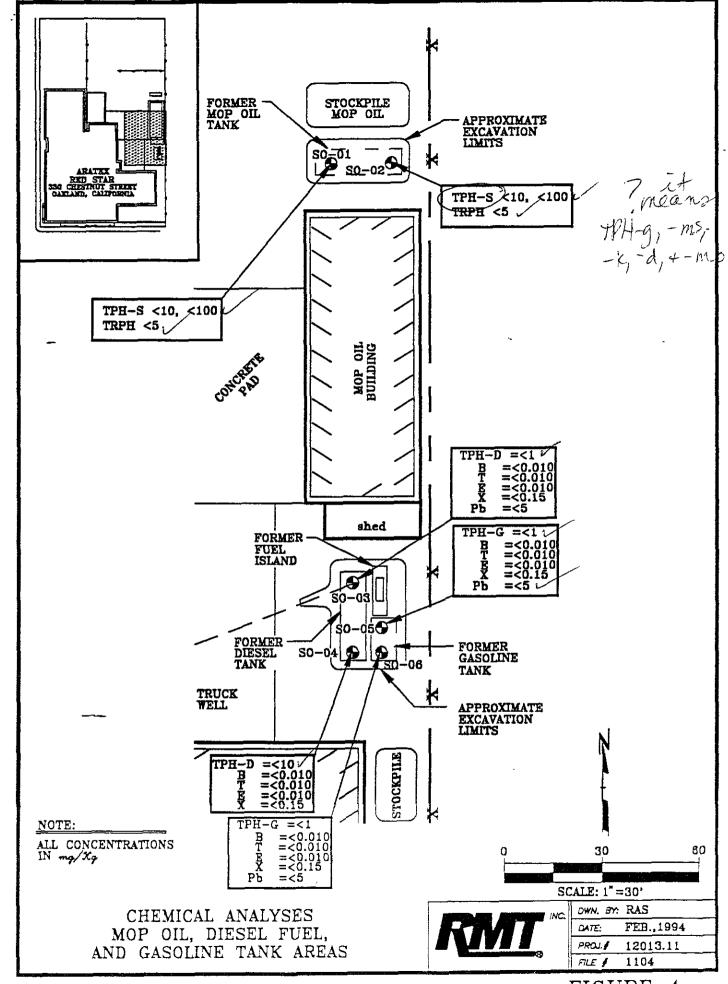


FIGURE 4

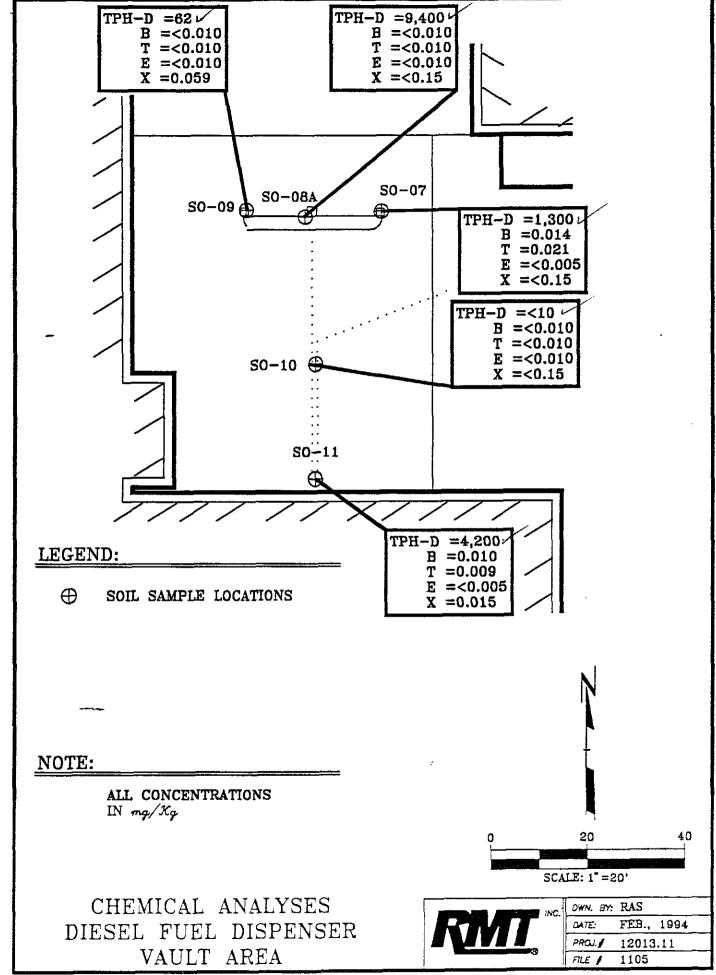


FIGURE 5

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TABLE 2
Chemical Analyses - Tank Removal Activities

Sample	Sample				Parame	eter (mg/kg)				
Location	Depth (ft-bgs)	TPH-G	TPH-D	TPH-MS/K/MO TRPH	TPH (418.1)	Benzene	Toluene	Ethyl- benzene	Xýlene	Lead
MOP OIL E	XCAVATIO)N				· · ·				
SO-01	14	-	-	BMDL		_	_		-	_
SO-02	13			BMDL		-		-		-
GASOLINE	/DIESEL F	UEL EXC	VATION							
SO-03	12	_	<1	+	_	<0.010	<0.010	<0.010	<0.15	<5
SO-04	13	-	<10	_	_	<0.010	<0.010	<0.010	<0.15	
SO-05	11.5	<1	-	-	-	<0.010	<0.010	<0.010	<0.15	<5;
SO-06	13	<1	1	<u> </u>		<0.010	<0.010	<0.010	<0.15	<5
DIESEL FU	EL DISPEI	ISER VAL	ILTS/REC	SULATOR EXCAV	ATION					
SO-07	5	_	1,300	-		0.014	0.021	<0.005	<0.15	Γ –
SO-08	5		9,400	-		<0.010	<0.010	<0.010	<0.15	
SO-09	4		62			<0.010	<0.010	<0.010	0.59	
SO-10	2		<10		-	<0.010	<0.010	<0.010	<0.15	
SO-11	1		4,200			0.010	0.009	<0.005	0.015	-
STOCKPIL	ED SOIL -	gasolin	E/DIESEI	FUEL EXCAVAT	ION		y Újakka		e de la companya de La companya de la co	9).Ž.,
SO-ST1	NA	<1 /	36	/ - 1		<0.010	<0.010	<0.010	<0.15	21 2
SO-ST2	NA.	<1 \	23		_	<0.010	<0.010	<0.010	<0.15	18
SO-ST3	NA	<1	<10	\		<0.010	<0.010	<0.010	<0.15	9 (
SO-ST4	NA	<1	<10	\ -	***	<0.010	<0.010	<0.010	<0.15	26 <i>i</i>
SO-ST5	NA	_<1	<10	\ -		<0.010	<0.010	<0.010	<0.15	441
STOCKPILI	ED SOIL .	MOP OIL	EXCAVA	rio Ņ						. &
MOP-1	NA			\ -	290		-			_
MOP-2	NA			\ 	110	-	-		-	
MOP-3	NA			\-	140					

BMDL - Below Method Detection Limit TPH-MS = 10 mg/kg

TPH-MS = 10 mg/kg TPH-MO = 100 mg/kg

TRPH = 5 mg/kg

NA - Not Applicable
-- - Not Analyzed

Section 3 SOIL SAMPLING ACTIVITIES

The results of the soil sampling activities conducted during the tank removal activities identified the presence of petroleum hydrocarbons in the soil underlying the former diesel fuel dispenser vaults and regulator. Based on these findings, additional soil sampling activities were conducted in the vicinity of both the diesel fuel dispenser vaults and the regulator to determine the extent of petroleum hydrocarbonimpacted soil.

3.1 Soil Sampling Procedures

Soil sampling activities were conducted in September 1993, and included the advancement of ten soil boring (SB-1 through SB-4, SB-6, SB-7, SB-10 through SB-12, and SB-14). Each borehole was advanced to a depth of approximately 10 ft bgs using hand augering techniques. Soil samples were collected at depths of approximately 5 and 10-ft bgs using a stainless steel sampler. Based on PID readings and visual observations noted during sample collection, several soil samples were submitted for chemical analyses. Soil sampling locations are presented in Figure 6.

3.2 Chemical Analyses of Soil

Soil samples collected from the diesel fuel dispenser vault and regulator areas during the soil sampling activities were analyzed for the presence of TPH-D and BTEX using EPA SW-846 Methods 8015 (California modified) and Method 8020, respectively. The results of the chemical analyses performed are presented in Table 3 and Figure 6. A copy of the laboratory report is presented in Appendix I.

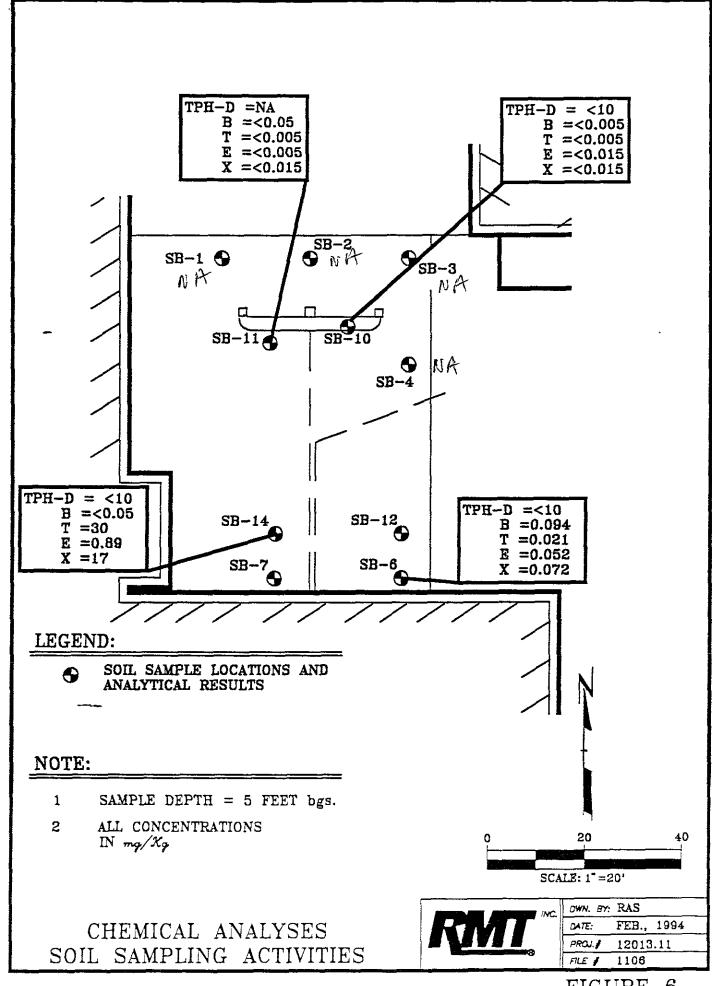
TABLE 3

Chemical Analyses - Soil Sampling Activities



Sample	Sample		Pa	ırameter (ı	ng/kg)	
Location	Depth (ft bgs)	TPH-D	Benzene	Toluene	Ethylbenzene	Xylene
SB-06-5	5	<10	0.094 /	0.021	0.052	0.072
SB-10-5	5	<10	<0.005	<0.005	<0.005	<0.005
SB-11-5	5	·	<0.05	30	0.89	17
SB-14-5	5	<10ª	<0.005	<0,005	< 0.005	<0.005

a - Hydrocarbon pattern not indicative of diesel fuel (pattern resembles motor oil)



Section 4 SOIL EXCAVATION ACTIVITIES

The results of the additional soil sampling activities conducted in September 1993, identified the presence of petroleum hydrocarbons in soil samples collected in the vicinity of the diesel fuel dispenser vault and regulator areas. The results also indicated that the extent of petroleum hydrocarbon-impacted soil was limited to the uppermost 5 to 10-ft bgs. Based on the results of the chemical analyses, a workplan was for the removal of the petroleum hydrocarbon-impacted soil was submitted to the ACHCSA on December 7, 1993 (See Appendix J). The workplan was verbally approved by Ms. Jennifer Eberle of the ACHCSA on December 27, 1993.

4.1 Soil Excavation Procedures

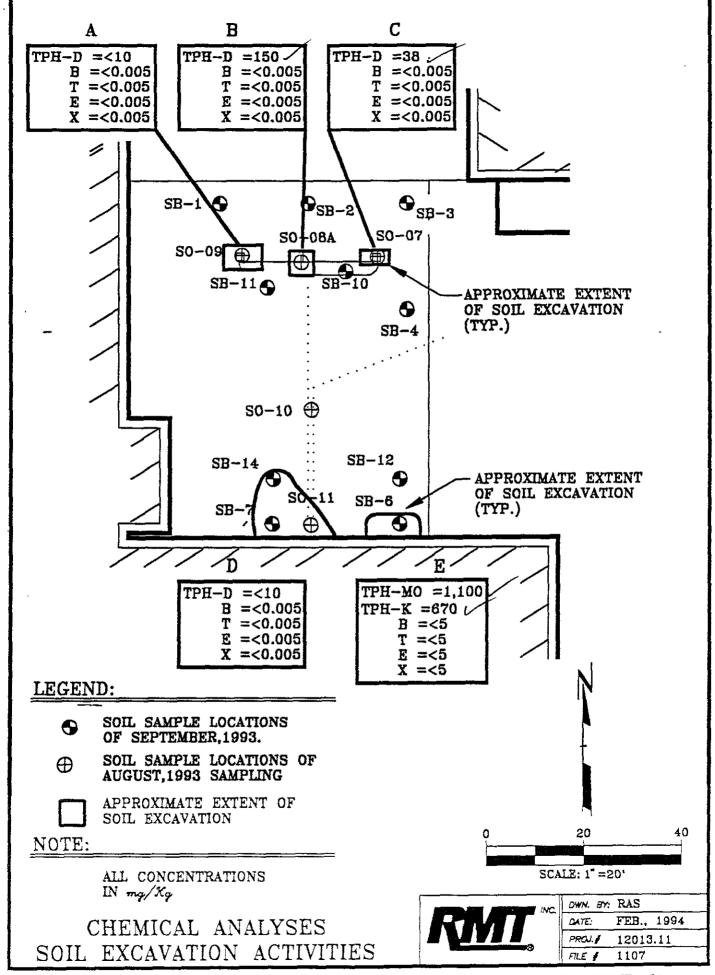
The soil excavation activities were conducted by Kroeker, Inc., of Fresno, California, on January 22, 1994. Field activities included the removal of the concrete pavement and the excavation of soil in the vicinity of the three diesel fuel dispenser vaults (Areas A, B, and C), the diesel fuel regulator (Area D), and the eastern section of the loading dock (Area E). The location of the excavations are presented in Figure 7.

Soil excavation activities were conducted until all visibly stained soil was removed and no petroleum hydrocarbon odor was discernable. Excavation activities conducted in the vicinity of the eastern section of the loading dock were halted at a depth of approximately 3-ft bgs because of the presence of a layer of asphaltic material approximately 1½-ft in thickness. Approximately 30-yd³ (45-tons) of soil was removed from the site during the excavation activities. The concrete debris and excavated soil was transported as non-hazardous waste to Specialty Crushing, of Emeryville, California, and Port Costa Materials, located in Port Costa, California, respectively, for recycling and re-use as an aggregate material. A copy of the waste manifest, bill of ladings, and the Certificate of Recycling is presented in Appendix K and photo-documentation of the excavation activities are included in Appendix L.

4.2 Soil Sampling Procedures

Soil sampling activities were conducted after soil excavation activities had been completed. Soil samples were typically collected from the bottom of each excavation, however, due to the presence of an asphaltic layer in the excavation located near the eastern section of the loading dock, Ms. Eberle of the ACHCSA requested that a soil sample be collected at a depth of approximately 1-ft bgs. Soil sampling locations were selected based on OVM readings and instructions from Ms. Jenifer Eberle. All soil samples were collected using disposable sampling equipment, placed in brass sampling sleeves, capped with teflon





lined plastic lids, sealed, and stored on ice pending shipment to a California certified independent laboratory following standard chain-of-custody procedures. All sampling activities were conducted under the supervision of Ms. Jennifer Eberle of the ACHCSA. A site plan showing the soil sampling locations is presented in Figure 7. The approximate size of each excavation is summarized in Table 4.

TABLE 4

Excavation Area Dimensions and Sampling Depths

Excavation Area (See Figure 7)	Approximate Excavation Dimensions
A - Diesel Fuel Dispenser Vault	8-ft x 5-ft x 9.5-ft deep
B - Diesel Fuel Dispenser Vault	4-ft x 5-ft x 8.0-ft deep
C - Diesel Fuel Dispenser Vault	3-ft x 6-ft x 8.0-ft deep
D - Diesel Fuel Regulator	10-ft x 12-ft x 9.0-ft deep
E - Eastern Section of Loading Dock	5-ft x 6-ft x 3.0-ft deep

4.3 Chemical Analyses of Soil

Soil samples collected from the floor of the excavations were analyzed for the presence of TPH-D and BTEX using EPA SW-846 Method 8015M and Method 8020, respectively. The results of the chemical analyses performed on the soil samples are presented in Table 5 and Figure 7. A copy of the laboratory report is presented in Appendix M.

TABLE 5
Chemical Analyses - Soil Excavation Activities

Sample	Sample Depth			Parameter	(mg/kg)	
Location	(ft bgs)	TPH-0	Benzene	Toluene	Ethylbenzene	Xylene
A-1	9.5	<10	<0.005	<0.005	<0.005	< 0.005
B-1	8.0	150 🏑	<0.005	<0.005	<0.005	<0.005
C-1	8.0	38 ,/	<0.005	< 0.005	<0.005	<0.005
D-1	9.0	<10 -	<0.005	<0.005	<0.005 /	<0.005 /
E-1	1.0 3.0	<10ª /	⊂<0.500 ^b ∫	<0.500 ^b (<0.500 ^b 🖔	<0.500₹ /

a - Hydrocarbon pattern <u>not</u> indicative of diesel fuel. The presence of TPH as kerosene (TPH-K) and TPH as motor oil (TPH-MO) were identified at concentrations of 670-mg/kg and 1,100-mg/kg, respectively.

b - Raised detection limit due to high concentration of non-target hydrocarbons in sample. 2/

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4.4 Excavation Backfill and Surface Restoration

Following soil sample collection, the excavations were backfilled with imported fill material, placed in 12-14" lifts and compacted to approximately 95% compaction. The surface was repaved with 6" thick concrete pavement reinforced with #4 rebar placed at 12" on center.

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Section 5 UNDERGROUND STORAGE TANK CLOSURE

5.1 Summary of Results

The 5,000-gallon gasoline storage tank and the 12,000-gallon diesel fuel storage tank were formerly located south of the Mop Oil Building and the 10,000-gallon mop oil tank was formerly located north of the Mop Oil Building. All three tanks were located along the eastern property boundary and were removed on July 27, 1993, in compliance with ACHCSA and City of Oakland regulations and permits.

Gasoline and Diesel Fuel Tanks. No signs of impact damage, holes, pitting, or corrosion were apparent and the gasoline and diesel fuel storage tanks appeared structurally sound. No visible evidence of petroleum contamination was encountered in the soil surrounding the gasoline and diesel fuel storage tank or product piping; however, evidence of a diesel fuel release was noted in the vicinity of the diesel fuel dispenser vaults and diesel fuel regulator. The results of chemical analyses performed on soil samples collected from the south and north end of the floor of both the gasoline tank excavation and the diesel fuel excavation did not identify the presence of TPH-G, TPH-D, BTEX, and organic lead.

Approximately 100 yd³ of soil were removed from the gasoline and diesel fuel tank excavation areas during the tank removal activities. The results of chemical analyses performed on composite samples of the soil removed from the gasoline and diesel fuel storage tank excavation did not identify the presence of BTEX or TPH-G above method detection limits, therefore, the soil was returned to excavation as backfill.

Additional soil sampling activities were conducted in the vicinity of the diesel fuel dispenser vaults, diesel fuel regulator, and eastern section of the loading dock to determine the extent of diesel fuel-impacted soil. Based on the results of the soil sampling activities, soil excavation activities were conducted in January 1994. Soil excavation activities were conducted until all visibly stained soil was removed and no petroleum hydrocarbon odor was discernable. Approximately 30-yd³ of soil was removed for the area surrounding the three diesel fuel dispenser vaults (Areas A, B, and C), the diesel fuel regulator (Area D), and the eastern section of the loading dock (Area E).

The results of the chemical analyses performed on the soil samples collected form the floor of diesel fuel dispenser vault excavation (Area A), the diesel fuel regulator (Area D), and the eastern section of the loading dock did not identify the presence of TPH-D or BTEX at concentrations above the method detection limit. The results of chemical analyses performed on soil samples collected from the floor of the diesel fuel dispenser vault excavations Areas B and C, identified the presence of TPH-D at concentrations of 150-mg/kg and 38-mg/kg.

The results of chemical analyses performed on soil samples collected from the excavation located near the eastern section of the loading dock identified the presence of TPH-K and TPH-MO at concentrations of 670-mg/kg and 1,100-mg/kg, respectively.

Prenes.

Mop Oil Tank. No signs of impact damage, or holes were apparent and although some pitting and corrosion were observed the mop oil storage tank appeared structurally sound. Visible evidence of a mop oil release was encountered in the soil surrounding the mop oil tank. The results of laboratory analyses performed on soil samples collected from the floor of the excavation did not reveal the presence of petroleum hydrocarbons above the method detection limit.

The results of chemical analyses performed on composite samples of the soil removed from the mop oil storage tank excavation identified the presence of TPH using EPA SW-846 Method 418.1 at concentrations of ranging from 110 to 290-mg/kg.

5.2 Request for Site Closure - Diesel Fuel and Gasoline Storage Tank Area

The results of chemical analyses performed on soil samples collected from the south and north end of the floor of both the gasoline tank and diesel fuel tank excavations, diesel fuel dispenser vault excavation (Area A), the diesel fuel regulator excavation (Area D), and the excavation located near the eastern section of the loading dock did not identify the presence of TPH-G, TPH-D, or BTEX. In addition, no signs of impact damage, holes, pitting, or corrosion were apparent during tank removal activities, no evidence of petroleum contamination was observed in the overburden soil or soil surrounding the associated tank piping, and the tanks appeared structurally sound.

Although the results of the chemical analyses performed on the soil samples collected from the diesel fuel dispenser vault excavations Area B and Area C identified the presence of TPH-D at concentrations of 150-mg/kg and 38-mg/kg, respectively, the results of chemical analyses performed on soil samples collected in close proximity to the former diesel fuel vaults did not identified the presence of TPH-D or BTEXI In addition, the bulk of the petroleum hydrocarbon-impacted soil has been removed.

The results of chemical analyses performed on soil samples collected from the excavation located near the eastern section of the loading dock did not identify the presence of TPH-D, or BTEX. The results did identify the presence of TPH-K (670-mg/kg) and TPH-MO (1,100-mg/kg), however, it is likely that the presence of TPH-K and TPH-MO is due to the presence of asphaltic material approximately 1½-ft in thickness located at a depth of approximately 1½-ft bgs. Based on the results of the chemical analyses and the findings presented above, it is requested that this area be closed in accordance with ACHCSA regulations.

5.3 Request for Site Closure - Mop Oil Tank Area

Visible evidence of a mop oil release was encountered in the soil surrounding the mop oil tank during tank removal activities, however, the results of chemical analyses performed on soil samples collected from the floor of the excavation did not reveal the presence of petroleum hydrocarbons above the method detection limit. The results of chemical analyses performed on composite samples of the soil removed from the excavation identified the presence of TPH using EPA SW-846 Method 418.1 at concentrations ranging from 110 to 290 mg/kg. Mop oil consists of highly refined base oil which the International Agency for Research on Cancer (IARC) classifies as having no evidence of carcinogenic potential and is not expected to present any environmental problems. Significant inaccuracies are associated with EPA SW-846 Method 418.1 when determining total petroleum hydrocarbon concentrations, therefore, based on the results of the chemical analyses and the information presented above, it is requested that the mop oil underground storage tank area be closed in accordance with ACHCSA regulations.

MARCH 1994

FINAL

APPENDIX A TANK REMOVAL PERMITS

SIGNED:

COPY TO _____

Theri Gill

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY DEPARTMENT OF ENVIRONMENTAL HEALTH HAZARDOUS MATERIALS DIVISION 80 SWAN WAY, ROOM 200 OAKLAND, CA 94621 PHONE NO. 510/271-4320

PHONE NO.

Underground Storage Tank Closure Pernit Application Alamede County Division of Hurardous Materials Teloplione: (810) 271-4120 Dakland, CA 94631

ACCEPTED

is a the orderer purposed between a now relevent for teauloness. of any required building permits for construction/destruction. and licrol phositish have Changes to your closurer plans indicated These closure/removel plans have been recoived and found to to entitle the assertiality that the requirements of State by this Demontrant and to assume compliancy with State and focal

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Final Inspection

Sampling

PIPHERE IS A PIMANICIAL PINALTY FOR NOT CETAINING THESE INSPECTIONS plicable laws and racpilations.

UNDERGROUND TANK CLOSURE PLAN Complete according to attached instructions

1.	Business Name <u>ARATEX Services, Inc.</u>
	Business Owner ARATEX Services, Inc.
2.	Site Address 330 Chestnut St.
	City Oakland Zip 94607 Phone 510-835-9285
3.	Mailing Address 330 Chestnut St.
	City Oakland Zip 94607 Phone 510-835-9285
4.	Land Owner ARATEX Services, Inc.
	Address 1827 Walden Office City, State Schaumburg, Zip 60143 Sq., Suite 200 IL
5.	Generator name under which tank will be manifested
	ARATEX Services, Inc.
	FPA T D No under which tank will be manifested CAD 990914249

6.	Contractor Paradiso Construction Co.
	Address 2600 Williams St.
	City San Leandro Phone 510-614-8390 A, B, C-8, C10,
	A, B, C-8, C10, License Type* <u>C61/D23 & HAZ</u> ID# <u>259820</u>
	*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board. Indicate that the certificate has been received, in addition, to holding the appropriate contractors license type.
7.	ConsultantR.M.T., Inc.
	Address 3250 Ocean Park Blvd., Suite 370
	City <u>Santa Monica, CA 90405</u> Phone <u>310-452-5078</u>
8.	Contact Person for Investigation
	Name Tom Davis Title Environmental Consultant
	Phone 310-452-5078
9.	Number of tanks being closed under this plan3
	Length of piping being removed under this plan approx. 120 feet
	Total number of tanks at facility 3
10.	State Registered Hazardous Waste Transporters/Facilities (see instructions).
	** Underground tanks are hazardous waste and must be handled ** as hazardous waste
	a) Product/Residual Sludge/Rinsate Transporter
	Name Erickson, Inc. EPA I.D. No. CAD009466392
	Hauler License No. 019 License Exp. Date 5/31/94
	Address 255 Parr Blvd.
	City Richmond State CA Zip 94801
	b) Product/Residual Sludge/Rinsate Disposal Site
	Name Gibson Pilot EPA I.D. No. CAD043260702
	Address 475 Seaport Blvd.
	City Redwood City State CA Zin 94604

	c) Tank and Piping Transporter
	Name <u>Erickson, Inc.</u> EPA I.D. No. <u>CAD009466392</u>
	Hauler License No. 019 License Exp. Date 5/31/94
	Address 255 Parr Blvd.
	City Richmond State CA Zip 94801
	d) Tank and Piping Disposal Site
	Name <u>Erickson, Inc.</u> EPA I.D. No. <u>CAD009466392</u>
	Address 255 Parr Blvd.
	City Richmond State CA Zip 94801
11.	Experienced Sample Collector
	Name _ Tom Davis
	Company R.M.T., Inc.
	Address 3250 Ocean Park Blvd., Suite 370
	City Santa Monica State CA Zip 90405 Phone 310-452-5078
12.	Laboratory
	NameGtel Environmental Lab, Inc.
	Address 4080 Pike Lane
	City State CA Zip 94520
	State Certification No. E1074
13.	Have tanks or pipes leaked in the past? Yes [] No [X]
	If yes, describe.

14. Describe methods to be used for rendering tank inert

50 lbs. of dry ice per 1000 gallons of tank capacity

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

The Bay Area Air Quality Management District (415-771-6000), along with local Fire and Building Departments, must also be contacted for tank removal permits. Fire departments typically require the use of explosion proof combustible gas meters to verify tank inertness. It is the contractor's responsibility to bring a working combustible gas meter on site to verify tank inertness.

15. Tank History and Sampling Information

	Tank	Material to be sampled	Location and Depth of Samples	
Capacity	Use History (see instructions)	(tank contents, soil, ground water, etc.)		
10,000 Gallon 12,000 Gallon	Mop Oil Tank (Mineral Oil) Diesel Tank	Soil samples of undisturbed natural material beneath the	One soil sample beneath the tank at a maximum of 2 feet below the native soil/backfill interface. One soil	
10,000 Gallon	Regular Unleaded Tank Date of installation on all tanks are unknown, last day of use was July 1, 1993.	excavation. And ground water if encountered.	sample beneath the piping at a maximum of 2 feet below the native soil/backfill interface where it connects to the pump/day tank. One soil sample for every 20 linear feet of product piping. Soil samples will be taken beneath any suspected leak site or stained soil.	

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

E	Excavated/Stockpiled Soil				
Stockpiled Soil Volume (Estimated)	Sampling Plan				
100 Yards	Composite stockpile plan. One (1) sample per 50 cubic yards. Uf April in offhauled				

Stockpiled soil must be placed on bermed plastic and must be completely covered by plastic sheeting.

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.

Containment Sought	EPA, DHS, or Other Sample Preparation Method Number	EPA, DHS, or Other Analysis Method Number	Method Detection Limit
TPH-G TPH-D BTXSE OSG TPH S BTXSE TPH Screen O+G	5030 3550 8020 5520 8260 5030 /8015 5530 418.1		1.0 1.0 0.005 50.0

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

18. Submit Worker's Compensation Certificate copy

Name of Insurer Republic Indemnity Co. of America

- 19. Submit Plot Plan (See Instructions)
- 20. Enclose Deposit (See Instructions)
- 21. Report any leaks or contamination to this office within 5 days of discovery. The report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report form. (See Instructions)
- 22. Submit a closure report to this office within 60 days of the tank removal. This report must contain all the information listed in item 22 of the instructions.

I declare that to the best of my knowledge and belief the statements and information provided above are correct and true.

I understand that information in addition to that provided above may be needed in order to obtain an approval from the Department of Environmental Health and that no work is to begin on this project until this plan is approved.

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

I understand that all work performed during this project will be done in compliance with all applicable OSHA (Occupational Safety and Health Administration) requirements concerning personnel health and safety. I understand that site and worker safety are solely the responsibility of the property owner or his agent and that this responsibility is not shared nor assumed by the County of Alameda.

Once I have received my stamped, accepted closure plan, I will contact the project Hazardous Materials Specialist at least three working days in advance of site work to schedule the required inspections.

Name (please type) Robert S. Corsun

Signature Date July 21, 1993

Signature of Site Owner or Operator

Name (please type) Bryant Burnette - General Manager

Signature

Date July 21, 1993

CITY OF OAKLAND

Tank Permit

Permit to Excavate and Install, Repair, or Remove Inflammable Liquid Tanks. No. 9723 Oakland, California. July 26. PERMISSION IS HEREBY GRANTED TO INSTANCE PROPERTY OF THE PERMISSION IS HEREBY FOR THE PERMISSION IN THE PERMISSION IS HEREBY FOR THE PERMISSION IS HEREBY FOR THE Gasoline tank and excevete commencing _____feet insideDropertyline Chestnut feet south of 5th Street east side of Street House No. 330 Chestnut Street Avenue Owner Aratex Services, Inc. Address 330 Chestnut Street Phone835-9285 Applicant Paradiso Construction Company Address 2600 Williams St. San Leandro 94577-614-8390 Dimensions of street (sidewalk) surface to be disturbed X This Permit is granted in accordance with existing City Ordinances. Owner hereby agrees to remove tanks on discontinuance of use or when notified by the City Authorities. When installing, removing or repairing tanks, no open flame to be on or near premises. Drainage Division Engineering Dept. **EXCAVATING PERMIT** issued in accordance with Ord. No. 278 CMS. Sec. 4-2.04 ____square feet of digging or removal granted. CERTIFICATE OF TANK AND EQUIPMENT INSPECTIO The receipt of \$_____special deposit is hereby acknowledged. GENERAL DEPOSIT. BUREAU OF PERMITS AND LICENSES. NOTICE Before Covering Tanks, Above Certificate Must Be Signed. Received by G. Johnson When ready for inspection notify Fire Prevention Sureau, 273-3851

THIS PERMIT MUST BE LEFT ON THE WORK AS AUTHORITY THEREFOR.

558-68 (6-67)

FINAL

APPENDIX B HAZARDOUS WASTE DISPOSAL MANIFEST

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1 55		330 CHESTNUTS T 4 Generator's Phone GO 835— 5. Transporter I Company Name	9285		the Election of the second	
1.800.852.7		and the same of the same	6. US EPA ID Number		C. State Transporter's ID	402 943
		Erickson, Inc.	C A D 0 0 9 4	1616131912	D. Transporter's Phone	(510) 235-1393
1 Y Y		7. Transporter 2 Company Name	8. US EPA ID Number		State Transporter's ID	
⇒.					Lonsporter's Phone	
CALIFORNIA		Gibson OllyPilot Petro	Leum 10. US EPA 10 Number		State Foolity's ID	
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\$ ₹		Redwood City, Ca. 9460	$C_1A_1D_1O_14_13_12$	60702		5)-368-5511
5 , ₹		11. US DOT Description (including Proper Shipping	ng Nome, Hazard Class, and ID Number)	12. Contai	iners 13. Total Type Quantity	14. Unit
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HE NATIONAL RESPONSE		15. Special Handling Instructions and Additional In				
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뿔		TALLE J	CALLY & 24 Hr. Pho	ne# (510) [4	148390	
		16. GENERATOR'S CERTIFICATION: I hereby de- packed, marked, and labeled, and are in all re	clare that the contents of the consignment are	fully and accurately de-		
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MARCH 1994

FINAL

APPENDIX C CITY OF OAKLAND INSPECTION REPORTS DRY ICE RECEIPTS

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CITY OF OAKLAND

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PURCHASE ORDER NO. DATE DATE CUSTOMER NUMBER Abel Carbonic NAME SHIPPED TO 21 HALF 22 SLICES 20 SOLID UNIT **DRY ICE**

BY ACCEPTING THIS ORDER, CUSTOMER AGREES TO ALL OF THE TERMS AND CONDITIONS SET FORTH HEREIN, INCLUDING THOSE PRINTED ON THE REVERSE SIDE. ACCEPTED BY: 23 ROCKS 29 WET ICE 24 AIRPORT DESCRIPTION CODE POUNDS ORM-A UN1845

PURCHASE ORDER NO. DATE DELIVERY NUMBER CUSTOMER NUMBER BY ACCEPTING THIS ORDER, CUSTOMER AGREES TO ALL OF THE TERMS AND CONDITIONS SET FORTH HEREIN, INCLUDING THOSE PRINTED ON THE REVERSE SIDE. Abel Carbonic ACCEPTED BY:-NAME SHIPPED TO 21 HALF 22 SLICES 23 ROCKS 24 AIRPORT 20 SOLID DESCRIPTION UNIT **DRY ICE** ORM-A UN1845

29 WET ICE CODE POUNDS

MARCH 1994

FINAL

APPENDIX D ALAMEDA COUNTY DEPARTMENT OF ENVIRONMENTAL HEALTH INSPECTION REPORTS

80 Swan Way, #200 ALAMEDA COUNTY, DEPARTMENT OF -env.health white Oakland, CA 94621 ENVIRONMENTAL HEALTH 104 vellow -facility (415) 271-4320 **cink** -files Hazardous Materials Inspection Form Today's Site LA BUSINESS PLANS (TIHO 19) 2703 1. Immediate Reporting Address 25503(ь) 2 Res. Ploto Strik. 3. RR Gars > 30 days 4. inventory information 25503.7 25504(a) Ζiρ 94 2730 Cltv Phone 5. Inventory Complete Emergency Response
 Training 25504(b) 25504(c) MAX AMT stored > 500 lbs, 55 gal., 200 cft.? 25505(a) 8. Deficiency 12,000 gal diesel 9. Modification 25505(b) inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER 5,000 gal. gas. ILB ACUTELY HAZ MATLS JL Business Pians, Acute Hazardous Materiais 25533(n) 10. Registration Form Flied ZIII. Underground Tariks Newbyy 25533(b) 11. Form Complete 25534(c) 12. RMPP Contents 13. Implement Sch. Regid? (Y/N) 25524(c) 14. OffSite Conseq. Assess. 15. Probable Risk Assessment Callf. Administration Code (CAC) or the Health & Safety Code (HS&C) 25534(d) 25534(0) 16. Persons Responsible 17. Certification 25534(1) 0+ 51 Dwigh 25536(b) 18. Exemption Request? (Y/N) 25538 19. Trade Secret Requested? IIL UNDERGROUND TANKS (Title 23) 4 mas $\boldsymbol{\sigma}$ 7. Permit Application 25284 (1485) no 2. Pipeline Leak Detection 25292 (H&S) 3. Records Maintenance 2712 arias 4. Release Report 2651 5 Closure Plane 2670 6. Method 1): Monthly Test nas no 2) Daily Vaccous Semi-concuct conductes One time sols minor 5) Daily Vacious One time sols Annual tank test 4) Monthly Gndwater One time sols e.Y has 5) Daily Inventory Annual took teeting 6 M Dat Contpipe leakdet no Vadate/gndwaterman 6) Daily inventory 50me (0 but Annual tank testing Contribe leak de onttom nevie ma 7) Weekly Tank Gauge $\alpha < \alpha < \alpha$ 947 **Annual tankising** Sample 50-01 8) Armusi Tank Testina Daily inventory 9) Other ___ low 7. Precis Tank Test 2643 Date: bration. Some 9reen. 35 del Inventory Rec. 9. Soil Testing . 2646 μ^{QQ} $\mathcal{V}(0)$ چ. 10 Ground Water prt 2447 11 Monitor Plan ia c 12.Access. Secure 2634 13 Plans Submit 2711 Date: 4. As Bust 2635 Date: Rev 6/88 N. III BRYAN GRIGSBY - RMT Jennr TANAGER Title:

Signature:

Signature:

80 Swan Way, #200 ALAMEDA COUNTY, DEPARTMENT OF Oakland, CA 94621 while -env.heaith ENVIRONMENTAL HEALTH (415) 271-4320 yellow -facility pink -files Hazardous Materials Inspection Form Sant in Todays Site tratex Site ΙĐ Name January States ILA BUSINESS PLANS (TITIO 19) 2703 · I. Immediate Reporting 2. Bus. Plan Sids. 3. RR Cass > 30 days 25503(b) 25503.7 25504(a) 4. Inventory Information City 5. inventory Complete 2730 25504(h) **6. Emergency Response** 25504(c) 7. Training 8. Deticiency MAX AMT stored > 500 lbs, 55 gal., 200 cft.? 25505(a) 25505(b) 9. Modification Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER ILB ACUTELY HAZ, MATLS II., Business Plans, Acute Hazardous Materials 10. Registration Form Filed 25533(a) √III. Underground Tanks 11. Form Complete 12. RMPP Contents 25533(b) 25534(c) 13. Implement Sch. Regid? (Y/N) 14. OffSite Conseq. Assess. 25524(c) Calif. Administration Code (CAC) or the Health & Safety Code (HS&C) 25534(d) 25534(a) 15. Probable Risk Assessment 16. Persons Responsible 255340) 17. Certification 25536(b) 18. Exemption Request? (Y/N) Comments 19. Tracio Secret Requested? 25538 III. UNDERGROUND TANKS (Title 23) 1. Permit Application 25284 (H&S) 25292 (H&S) 2. Pipeline Leak Detection 3. Records Maintenance 2712 OW 4. Release Report 2651 5. Closure Plans 2670 inver was 6: Method 1): Monthly lest ٥ Soi sanda 2) Daily Vaccose . Semi-arriud gnawater 5006 31 äŧ Creative sole 3) Daily Voctore Chetmesols were ar Arrust tank test 4) Monthly Gnowater Sleeves P as One time sold odor A C O 5) Daily inventory Annual tank healing 50 00 Controlog leak del Vacione/andwatermen. a) Daily inventory 1 e 905 Annucitoric feiting Contribute leck det 7) Weeldy fork Gouge com Annual tank taling 8) Annual Tank Testing - Daily inventory 9) Other 7. Precis Tonk Test Date: ____ Inventory Rec. Sol Testing . ~. •æ 10. Ground Water. 11 Monttor Plan 12 Access. Secure 13.Plans Submit Date: As Built 2635 Date: 6/88 BAYAN GRISSBY - KMT Contact:

Title: PROTECT MANAGER
Signature: 73

inspector:

Signature:

Jennifer Eberle

white -env.health yellow -facility pink -files

Title:

Signature:

ALAMEDA COUNTY, DEPARTMENT OF ENVIRONMENTAL HEALTH

Hazardous Materials Inspection Form

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

11,111

	Site Site Name Today's 7/17
1. A BUSINESS PLANS (Title 19)	Site Address 230 Chest Lut .t. City (La La Zip 94 C) Phone
7. Training 25504(c) 8. Deficiency 25505(a) 9. Modification 25505(b) II.B ACUTELY HAZ. MATLS 10. Registration Form Filed 25533(a) 11. Forth Complete 25533(b) 12. RMPP Contents 25534(c) 13. Implement Sch. Req d? (Y/N)	MAX AMT stored > 500 lbs, 55 gal., 200 cft.? Inspection Categories: I. Haz. Mat/Waste GENERATOR/TRANSPORTER II. Business Plans, Acute Hazardous Materials III. Underground Tanks
14. Offsite Conseq. Assess. 25524(c) 25534(d) 25	Callf. Administration Code (CAC) or the Health & Safety Code (HS&C) Comments: Stadeory Code (HS&C)
UNDERGROUND TANKS (Title 23)	the pit because RP heads truck incomes. Proping still needs to be removed. Took soil samples below removed.
	block-stained seil in this pity. 50-08 taken at a 5.5 best (stained trills 50-11 taken of under moter stand attained High forediso xid the lines were washed out prior to compare of high Stained (+ oderous) soil from side all le pliping. 50-10 taken trom below ellow of proing at a 2' bast (Soil not stained) Stockpiled soil to the stained)
11 Monitor Pian 2632 12 Access Secure 2634 13 Pans Submit 2711 Date: 14. As Built 2635 Date 2635	Exercised + Will be Armited Mills. Exercised Control of Trold will be
Contact: BRYAN	Ge16587 1,111

Inspector:

Signature:

ARATEX SERVICES, INC.

FINAL

APPENDIX E TANK DISPOSAL MANIFESTS AND DESTRUCTION CERTIFICATIONS

DAY OR NIGHT TELEPHONE (510) 235-1393

REPRESENTATIVE

CERTIFICATE

CER1

NO.	1	1	1	4	٤
STOMERSO					

CIFIED SERVICES COMPANY CEE Park Boulevard Cichmond Colifornia 04901	CHARAMET'SO		
255 Parr Boulevard • Richmond, California 94801	JOB NO.	82248	

		11740 TANK NO	
Richm LOCATION: Visual Gastech TEST METHOD	/1314 SMPN	DATE:	uo
This is to certify that I have persented and have for the completed and is issued subject to	and the condition onditions existing	to be in accordance at the time the in	e with its assigned designation. spection herein set forth was
10000 Gallon T		CONDITION	SAFE FOR FIRE
OXYGEN 20.9% REMARKS: LOWER EXPLOSIVE L "ERICKSON INC. HEREBY CER CUT OPEN, PROCESSED, AND WASTE FACILITY."	IMIT LESS THA	HE ABOVE NUMBERE	
In the event of any physical or atmosph immediately stop all hot work and cont changes occur. STANDARD SAFETY DES SAFE FOR MEN: Means that in the com	SIGNATION partment or space so	This permit is valid for 2 designated (a) The oxyge	24 hours if no physical or atmospheric n content of the atmosphere is at least
19.5 percent by volume; and that (b) To judgment of the Inspector, the residues while maintained as directed on the Inspector. SAFE FOR FIRE. Means that in the atmosphere is below 10 percent of the not capable of producing a higher concand while maintained as directed on the sufficiently to prevent the spread of fire necessary by the Inspector.	are not capable of particles compartment so destower explosive limit; entration that permitte inspector's certifica	oroducing toxic materials signated (a) The concent and that (b) In the judgred under existing atmosphate, and further, (c) All adj	tration of flammable materials in the ment of the Inspector, the residues are neric conditions in the presence of fire acent spaces have either been cleaned
The undersigned representative asknowledge	edges receipt of this	certificate and understand	s the conditions and limitations under

TITLE

INSPECTOR

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO	-	1	1	1	2	9
TOMER						

CUSTOMER
PARADISO
JOB NO.
82248

1	FOR: Erick	son, Inc.	TANK NO. 11741	
LOC	CATION: Richmond		DATE: <u>07/31/93</u>	TIME: 07:32:19
EST METHODV	isual Gastech/131	4 SMPN (_AST PRODUCT	UG
Petroleum Insti This certificate	tute and have found th	ne condition to	o be in accordanc at the time the in	n accordance with the American e with its assigned designation. Inspection herein set forth was instructions.
TANK SIZE 50	00 Gallon Tank		CONDITION	SAFE FOR FIRE
REMARKS _{OXYG}	EN -20.9% R EXPLOSIVE LIMIT	LESS THAN	0.1%	
***	C. HEREBY CERTIFI			ED TANK HAS BEEN PERMITTED HAZARDOUS
WASTE FACIL	ITY."			
				of the above tanks, or if in any doubt, 24 hours if no physical or atmospheric
SAFE FOR MEN: M 19.5 percent by vo judgment of the In	lume; and that (b) Toxic ma	nt or space so de iterials in the atm ot capable of pro	osphere are within per	en content of the atmosphere is at least missable concentrations; and (c) In the under existing atmospheric conditions
SAFE FOR FIRE atmosphere is belonot capable of proand while maintain	Means that in the compar by 10 percent of the lower of ducing a higher concentration and as directed on the Inspe- ent the spread of fire, are si	rtment so design explosive limit; ar on that permitted ector's certificate,	nd that (b) In the judg under existing atmosp and further, (c) All ad	stration of flammable materials in the ment of the Inspector, the residues are heric conditions in the presence of fire jacent spaces have either been cleaned iel tanks, have been treated as deemed
which it was issued.	presentative acknowledges r		tificate and understand	ts the conditions and limitations under
REPRESENTATIVE		TITLE		INSPECTOR

DAY OR NIGHT TELEPHONE (510) 235-1393

CERTIFICATE

CERTIFIED SERVICES COMPANY

255 Parr Boulevard • Richmond, California 94801

NO. 17128

CUSTOMER

PARADISO
JOB NO.

82248

FOR: Ericks	on, Inc.	TANK NO.	11739			
LOCATION: Richmond		DATE: 07	7/31/93	TIME: <u>07</u>	:32:19	
TEST METHOD <u>Visual Gastech/1314</u>	SMPN	LAST PRO	DUCT	D		d 27 and d Malley Victor of
This is to certify that I have personally Petroleum Institute and have found the This certificate is based on condition completed and is issued subject to complete.	condition s existing	to be in a at the tin	ccordance	e with its	assigned desi herein set fo	gnation.
TANK SIZE 12000 Gallon Tank		CONDI	TION	SAFE F	OR FIRE	,
TANK SIZE			11014			
REMARKSPXYGEN 20.9%						
LOWER EXPLOSIVE LIMIT	LESS THAN	v 0.1%			,	
	-					
"ERICKSON INC. HEREBY CERTIFIE:	S THAT TI	HE ABOVE	NUMBERI	ED TANK	HAS BEEN	
CUT OPEN, PROCESSED, AND THER	EFORE DES	STROYED A	T OUR I	PERMITTE	D HAZARDOU	<u>s</u>
WASTE FACILITY."			*			
In the event of any physical or atmospheric char immediately stop all hot work and contact the changes occur.						
STANDARD SAFETY DESIGNA	ATION					
SAFE FOR MEN: Means that in the compartment 19.5 percent by volume; and that (b) Toxic mate judgment of the Inspector, the residues are not while maintained as directed on the Inspector's ce	or space so rials in the at capable of p	mosphere are	within per	missable cor	ncentrations; and	(c) In the
SAFE FOR FIRE: Means that in the comparts atmosphere is below 10 percent of the lower ex not capable of producing a higher concentration and while maintained as directed on the Inspect sufficiently to prevent the spread of fire, are sat necessary by the Inspector.	plosive limit; that permitte or's certificate	and that (b) ed under exist e, and further	In the judg: ing atmosp , (c) All adj	ment of the heric conditi jacent space	Inspector, the re ions in the preser is have either bee	sidues are nce of fire in cleaned
The undersigned representative acknowledges reconstitute it was issued.	ceipt of this c	ertificate and	understand	Is the condit	ions and limitatio	ns under
REPRESENTATIVE	TITLE			INSPECTOR		

_	TOTAL CONTROL TOTAL CONTROL CO	on nypawata.			Joci Grienio, Contentio
•	UNIFORM HAZARDOUS	1. Generator's US EPA ID No.	Manifest Document No.	2. Page 1	Information in the shaded areas is not required by Federal law.
	WASTE MANIFEST	CIAID 1918101811 1412141	8812121418	/ of /	
	3. Generator's Name and Mailing Address ARATEX SERVICE	•			- 755
	330 CHESTNUT ST	s -ne;		na Sagaraga Na Sagaraga	12/2
	330 CHESTNUT ST.	1607			
	5. Transporter 1 Company Name	6. US EPA ID Number		Same in the second	
	·	MADONA	11/12/12/14		The control of the co
	7. Transporter 2 Company Name	C A 0 0 9 4	76637		
		1 1 1 1			
	Designated Facility Name and Site Address The Address	10. US EPA ID Number			
	Erickson, Inc. 255 Parr Blvd.		A STATE OF THE STA		
Į	Richmond, Ca. 94801	[C A D O O 9 4	41616131912		* * * * * * * * * * * * * * * * * * *
	11. US DOT Description (including Proper Ship)	· · · · · · · · · · · · · · · · · · ·	12. Containers	13. Total	14. Unit
	a	_ 1	No. Type	Quantity	Wt/Vol
;	Waste Empty Storage ' NON-RCRA Hazardous W		OIOII TP	12000	P
	ь.			32 37 17	
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	· ,				
	c. `				
				1111	EACH STREET
ļ	d.				Section 10
					27.5
ŀ					
			Consideration of the Constant		
ŀ	15. Special Handling Instructions and Additiona	l Information		The executive services (
	Keep away from source	es of ignition, Always	wear hardhats wh	en working	g around
İ	U.G.S.T.'s 24 Hr. Co	ntact Name/ Junklise	& Phone 4.44-55	10	
ŀ	A CONTRACTOR CONTRACTOR				
	 GENERATOR'S CERTIFICATION: I hereby packed, marked, and labeled, and are in a 	deciare that the contents of the consignment of the consignment of the consignment by the consignment of the consistency of the consignment of the consistency of the			
	If I am a large quantity generator, I certi-	fy that I have a program in place to reduce	the volume and toxicity of wast	e generated to the	degree I have determined to be
		elected the practicable method of treatment, to the treatment of the practical of the properties of the practical of the prac			
-	waste management method that is available	e to me and that I can afford.			
	Printed/Typed Name	Signature	10-1		Month Day Year
†	17. Transporter 1 Acknowledgement of Receipt	of Materials			
	Printed/Typed Name	Signature	()		Month Day Year 017 1 G G 3
-	18 Transporter 2 Acknowleagement of Receipt	of Materials	- Sugar	· · · · · · · · · · · · · · · · · · ·	101/12191712
	Printed/Typed Name	Signature			Month Day Year
+	19 Discrepancy Indication Space				
!					,
1					1.
L	20 Facility Owner or Operator Certification of	receipt of hazardous materials rovered by the	s manifest except as noted in Item	19	
Ι, _	Printed/Typed Name	Signature			Month Day Year
:					

	12-pitch) typewriter. 1. Generator's US EPA ID N	lo. Manif	est Document N	lo.	2. Page 1	Information in th	
UNIFORM HAZARDOUS WASTE MANIFEST	CAD19181C1811	1412418 81	21214	118	/ of /	is not required b	y Federal Idw.
3. Generator's Name and Mailing Addre			4			1	5340
HRATEX SERYN RRATEX SERYN RROCHESTANT SI	(25 + 46)				in in the second		<u> </u>
330CH & STNUT SI OUK LAND CA. 4. Generator's Phone (510) 835	14607_		2				
i. Transporter 1 Company Name	9285 6. US EF	PA ID Number					And the second
			<u> </u>	ه کند. د کارو			
EKICKSON INC. 7. Transporter 2 Company Name	CHD	COAIUKK PA ID Number	37123				
7. Transporter 2 Company Name	8. US EF	'A ID Number	12	-77.50			
				32548			
9. Designated Facility Name and Site Ad	idress 10. US EF	PA ID Number	9				
Erickson, Inc. 255 Parr Blvd.							
Richmond, Ca. 9480	n ran	001941616	3 9 2 3		្សាំនេះ		
I. US DOT Description (including Proper			12, Contai		13. Total	14. Unit	ante Name
a.	,		No.	Туре	Quantity	/	
Waste Empty Storag	ge Tank \	OK ~		_		_	7.3
NON-RCRA Hazardous	Waste Solid. M	op oil	Coat	1/	5000	P .	
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5. Special Handling Instructions and Ada	ditional information	The state of the s	1	5-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		er var eliktrick filmer vin en	CONTRACTOR STATE
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Voor mant from son	Compact Name	/, & Pho	one///	1:32	/		
Keep away from sou	A CONCACT NAME (A). /	, J(- / /	⊸ f		
Keep away from sou U.G.S.T.'s 24 Hr.	Contact Name/A/						
U.G.S.T.'s 24 Hr.	hereby declare that the contents of t	he consignment are fully a	nd accurately a	lescribed o	bove by proper	shipping name an	d are classified,
U.G.S.T.'s 24 Hr. 16. GENERATOR'S CERTIFICATION: 11 packed, marked, and labeled, and a	hereby declare that the contents of the re in all respects in proper condition	he consignment are fully a for transport by highway	according to a	oplicable f	ederai, state and	d international laws	
U.G.S.T. 'S 24 Hr. 16. GENERATOR'S CERTIFICATION: 11 packed, marked, and labeled, and at If I am a large quantity generator, 1 economically provincely and that I is	hereby declare that the contents of the re in all respects in proper condition of the certify that I have a program in these selected the practicable method	he consignment are fully a for transport by highway place to reduce the volur d of treatment, storage, o	according to a ne and toxicity or disposal curr	oplicable for of waste ently avail-	ederal, state and generated to the able to me which	d international laws ie degree I have o th minimizes the pr	etermined to be esent and future
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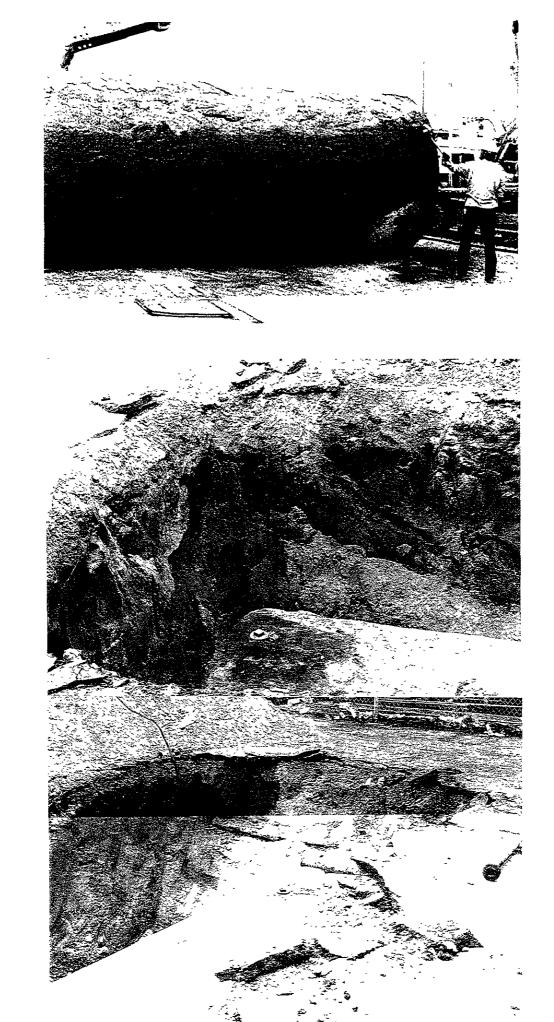
ARATEX SERVICES, INC.

FINAL

APPENDIX F PHOTO-DOCUMENTATION OF TANK REMOVAL ACTIVITIES

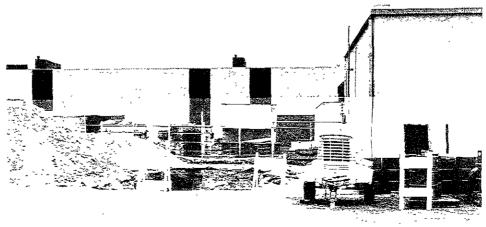
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APPENDIX G MATERIAL SAFETY AND DATA SHEET - MOP OIL

Gear Customer: This MSGS contains important environmental, health and travellegy information for your employees who recently ordered this product. Please make sure this information is given to them. If you result this product, this MSGS should be given to the Suyer. This form may be reproduced without permission.

Chevren USA Inc

Material Safety Data Sheet

Prepared According to the OSHA Hazard Communication Standard (29 CFR 1910.1200). (Formerly Called MATERIAL INFORMATION BULLETIN)



CHEVRON Utility Oil 22

CPS 231200

- -

A HAZARD WARNING STATEMENT IS NOT REQUIRED FOR THIS PRODUCT UNDER OSHA HAZARD COMMUNICATION STANDARD (29 CFR. 1910.1200)

TYPICAL COMPOSITION

Highly refined base oil (CAS 64741-96-4/64742-52-5)

100%

EXPOSURE STANDARD

The Federal OSHA exposure standard and the ACGIH (1986-87) TLV for mineral oil mists is $5~{\rm mg/m^3}$ for a daily 8-hour exposure.

PHYSIOLOGICAL & HEALTH EFFECTS

EMERGENCY & FIRST AID PROCEDURES

Eyes

Expected to cause no more than minor eye irritation.

Flush eyes immediately with fresh water for at least 15 minutes while holding the eyelids open. If irritation persists, see a doctor.

Skin

Expected to cause no more than minor skin irritation following prolonged or frequently repeated contact.

Wash skin thoroughly with soap and water. Lammer contaminated clothing.

Inhalation

Not expected to be acutaly toxic by inhalation. Breathing mineral oil mist at concentrations in air that exceed the Federal OSHA exposure standard can cause respiratory irritation or discomfort. See Additional Health Data.

If respiratory discomfort or irritation occurs, move the person to fresh air. See a doctor if discomfort or irritation continues.

Ingestion

Not expected to be acutely toxic by ingestion.

If swallowed, give water or milk to drink and telephone for medical advice. Consult medical personnel before inducing vomiting. If medical advice cannot be obtained, then take the person and product container to the nearest medical emergency treatment center or hospital.

Chevron Environmental Health Center, Inc., P.O. Box 4054, Richmand, CA 94884-8854 Emergency Phone Number (415) 233-3737

X-IRC021 -07-353

No. 1512

Rev. 5 11/06/87

Signs and symptoms of respiratory tract irritation may include, but may not be limited to, one or more of the following, depending on concentration and length of exposure: nasal discharge, sore throat, coughing, bronchitis, pulmonary edema and difficulty in breathing.

This product contains a base oil which the International Agency for Research on Cancer (IARC) classifies as having no evidence of carcinogenic potential.

SPECIAL PROTECTIVE INFORMATION

Eye Protection: No special eye protection is necessary.

Skin Protection: No special skin protection is necessary.

Respiratory Protection: No special respiratory protection is normally required. However, if operating conditions create airborne concentrations which exceed the exposure standard, the use of an approved respirator is recommended.

Ventilation: Use adequate ventilation to keep the airborne concentrations of this material below the Federal OSHA exposure standard.

FIRE PROTECTION

Flash Point: (COC)320°F(160°C)

Autoignition Temp.: NDA Flammability Limits: n/a

Extinguishing Media: CO₂, Dry Chemical, Foam, Alcohol-type Foam, Water Fog.

Special Fire Fighting Procedures: For fires involving this material, do not enter any enclosed or confined fire space without proper protective equipment. This may include self-contained breathing apparatus to protect against the hazardous effects of normal products of combustion

or oxygen deficiency. Read the entire MSDS.

SPECIAL PRECAUTIONS

DO NOT weld, heat or drill container. Residue may ignite with explosive violence if heated sufficiently.

CAUTION! Do not use pressure to empty drum or explosion may result.

ENVIRONMENTAL PROTECTION

Environmental Impact: This material is not expected to present any environmental problems other than those associated with oil spills.

Precautions if Material is Released or Spilled: Stop the source of the leak or release. Clean up releases as soon as possible. Contain liquid to prevent further contamination of soil, surface water or groundwater. Clean up small spills using appropriate techniques such as sorbent materials or pumping. Where feasible and appropriate, remove contaminated soil. Follow prescribed procedures for reporting and responding to larger releases.

Waste Disposal Methods: Place contaminated materials in disposable containers and dispose of in a manner consistent with applicable regulations. Contact local environmental or health authorities for approved disposal of this material.

REACTIVITY DATA

Stability (Thermal, Light, etc.): Stable Incompatibility (Materials to Avoid): May react with strong oxidizing materials.

Hazardous Decomposition Products: Normal combustion forms carbon dioxide and water vapor; incomplete combustion can produce carbon monoxide.

Hazardous Polymerization: Will not occur.

PHYSICAL PROPERTIES

Solubility: Soluble in hydrocarbon solvents; insoluble in water.

Appearance (Color, Odor, etc.): Clear, colorless liquid.

Boiling Point: NDA

Melting Point: n/a

Specific Gravity: 0.89 @ 15.6/15.6°C

Vapor Pressure: n/a

Vapor Density (Air=1): n/a

Percent Volatile (Volume %): n/a

Evaporation: n/a

Pour Point: -48°C (-55°F) Viscosity: 22 cSt @ 37.8°C

n/a = Not Applicable
NDA = No Data Available

The shove information is based on data of which we are aware and is believed to be correct as of the date hereof. Since the information contained herein may be applied under conditions beyond our control and with which we may be unfamiliar and since data made available subsequent to the date hereof may suggest modifications of the information, we do not assume any responsibility for the results of its use. This information is furnished upon the condition that the person receiving it shall make his own determination of the suitability of the material for his particular parpose.

NO 1512

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APPENDIX H LABORATORY REPORTS TANK REMOVAL ACTIVITIES



4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX

Client Number: RMT01RMT01 Consultant Project Number: 12036.01

Project ID: Aratex Services

330 Chestnut Oakland, CA

Work Order Number: C3-07-0507

August 3, 1993

Jim Van Nortwick RMT, Inc. 3250 Ocean Park Blvd., Suite 370 Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/30/93, under chain of custody records 28299, 28300 and 28301.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services. Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories. Inc.

een G. Bullen

Eileen F. Bullen

Laboratory Director

Client Number: RMT01RMT01 Consultant Project Number: 12036.01

Project ID: Aratex Services 330 Chestnut

Oakland, CA

Work Order Number: C3-07-0507

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry¹

EPA 3550 (Mod.)/EPA 418.1 (SM 5520 FC)²

GTEL Sample Number		01	02	080293 TPH	
Client Identification		SO-01	SO-02	METHOD BLANK	
Date Sampled		07/29/93	07/29/93		
Date Prepared		08/02/93	08/02/93	08/02/93	
Date Analyzed		08/03/93	08/03/93	08/03/93	-
Analyte	Detection Limit, mg/Kg		Concentral	ion, mg/Kg	
Total Petroleum Hydrocarbons	5	<5	<5	<5	
Detection Limit Multiplier		1	1	1	
Percent solids		84.3	85.5	NA	

The sample is sonication extracted using a modification of EPA 3550. The extract is analyzed, as in EPA 418.1 (SM 5520 CF), to yield results reported as Total Petroleum Hydrocarbons. Results are reported on a wet weight basis. Standard Methods for the Examination of Water and Wastewater, 17th ed., American Public Health Association,

NA = Not Applicable

Note: Samples were received at 12° C.



Client Number: RMT01RMT01
Consultant Project Number: 12036.01
Project ID: Aratex Services 330 Chestnut Oakland, CA

Work Order Number: C3-07-0507

Table 1

ANALYTICAL RESULTS

Hydrocarbons in Soil

Method: GC-FIDa

GTEL Sample Number		01	02	080393 GC-K	
Client Identification		SO-01	SO-02	METHOD BLANK	
Date Sampled		07/28/93	07/29/93		
Date Extracted		08/02/93	08/02/93	08/02/93	
Date Analyzed		08/03/93	08/03/93	08/03/93	
Analyte	Detection Limit, mg/Kg	(Concentratio	n, mg/Kg	
TPH as gasoline	10	<10	<10	<10	
TPH as mineral spirits	10	<10	<10	<10	
TPH as kerosene	10	<10	<10	<10	
TPH as diesel fuel	10	<10	<10	<10	
TPH as motor oil	100	<100	<100	<100	
Detection Limit Multiplier		1	1	1	
Percent solids		84.3	88.5	NA	
O-Terphenyl surrogate, % recov	/ery	102	104	122	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, USEPA, November, 1986. Results reported on a wet weight basis. O-Terphenyl surrogate acceptability limits are 50-150%.

NA = Not Applicable

Note: Samples were received at 12° C.



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Northwest Region 4080 Pike Lane Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720

Client Number: RMT01RMT01 Consultant Project Number: 12036.01

Project ID: Aratex Services 330 Chestnut

Oakland, CA Work Order Number: C3-07-0508

August 13, 1993

Jim Van Nortwick RMT inc. 3250 Ocean Park Blvd Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/30/93, under chain of custody record 28299 and 28300.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Ellen F. Bullen

Eileen F. Bullen

Laboratory Director

Client Number: RMT01RMT01
Consultant Project Number: 12036,01
Project ID: Aratex Services 330 Chestnut

Oakland, CA Work Order Number: C3-07-0508

Table 1

ANALYTICAL RESULTS

Lead in Soil

EPA Method 6010a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Sample preparation by EPA Method 3050.

GTEL Sample Number		03	04	05	06
Client Identification		SO-05	SO-06	SO-ST1	SO-ST2
Date Sampled		07/29/93	07/29/93	07/29/93	07/29/93
Date Prepared		08/06/93	08/06/93	08/06/93	08/06/93
Date Analyzed		08/09/93	08/09/93	08/09/93	08/09/93
Analyte	Detection Limit, mg/Kg		Concentrat	ion, mg/Kg	
Lead, total	5	<5 ¢	<5 V	21	18
Detection Limit Multiplier		1	1	1	1
Percent solids		84.6	84.3	92.4	92.7

GTEL Sample Number		07	08	09	080693MET
Client Identification		SO-ST3	SO-ST4	SO-ST5	METHOD BLANK
Date Sampled		07/29/93	07/29/93	07/29/93	
Date Prepared		08/06/93	08/06/93	08/06/93	08/06/93
Date Analyzed		08/09/93	08/09/93	08/09/93	08/09/93
Analyte	Detection Limit, mg/Kg		Concentra	tion, mg/Kg	
Lead, total	5	9	26	44	<5
Detection Limit Multiplier		1	1	1	1
Percent solids		95 3	90 3	92.7	NA

NA = Not Applicable
Note: Samples were received at 12° C.



Client Number: RMT01RMT01 Consultant Project Number: 12036.01 Project ID: Aratex Services

Project ID: Aratex Services 330 Chestnut Oakland, CA Work Order Number: C3-07-0508

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel Fuel in Soil

Modified EPA Methods 3550/8015a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a

wot weight basis.					
GTEL Sample Number		01	02	03	04
Client Identification		SO-03	SO-04	SO-ST1	SO-ST2
Date Sampled		07/29/93	07/29/93	07/29/93	07/29/93
Date Extracted		08/05/93	08/05/93	08/05/93	08/05/93
Date Analyzed		08/10/93	08/10/93	08/10/93	08/10/93
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	<10	<10	36	23
Detection Limit Multiplier		1	1	1	1
Percent solids		85.3	84.7	92.4	92.7
OTP surrogate, % recovery		96.5	105	130	122

GTEL Sample Number		07	08	09	081093 GCK
Client Identification		SO-ST3	SO-ST4	SO-ST5	METHOD BLANK
Date Sampled		07/29/93	07/29/93	07/29/93	
Date Extracted		08/05/93	08/05/93	08/05/93	08/05/93
Date Analyzed		08/10/93	08/11/93	08/11/93	08/10/93
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	<10	<10	<10	<10
Detection Limit Multiplier		1	1	1	1
Percent solids		95.3	90.3	92.7	NA
OTP surrogate, % recovery		102	108	76.1	112

NA = Not Applicable.

Note: Samples were received at 12° C.



Client Number: RMT01RMT01
Consultant Project Number: 12036.01
Project ID: Aratex Services 330 Chestnut

Oakland, CA Work Order Number: C3-07-0508

Table 1

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Methods 8020 and Modified 8015a

GTEL Sample Number		01	02	03	04
Client Identification		SO-03	SO-04	SO-05	SO-06
Date Sampled		07/29/93	07/29/93	07/29/93	07/29/93
Date Extracted		08/09/93	08/09/93	08/09/93	08/09/93
Date Analyzed		08/12/93	08/12/93	08/12/93	08/12/93
Analyte	Detection Limit, mg/kg		Concentrat	ion, mg/kg	
Benzene	0.005	<0.005	< 0.005	<0.005	<0.005
Toluene	0.005	<0.005	< 0.005	< 0.005	<0.005
Ethylbenzene	0.005	< 0.005	< 0.005	< 0.005	< 0.005
Xylene, total	0.015	<0.015	<0.015	< 0.015	<0.015
BTEX, total					
TPH as Gasoline	1	NR	NR	<1	<1
Detection Limit Multiplier		1	1	1	1
Percent solids		85.3	84.7	84.6	84.3
BFB surrogate, % recovery		78.6	79.7	79.3	75.9

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 60-140%
 NR = Not Requested
 Note: Samples were received at 12°C.



Client Number: RMT01RMT01
Consultant Project Number: 12036.01
Project ID: Aratex Services 330 Chestnut

Oakland, CA Work Order Number: C3-07-0508

Table 1 (continued)

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Methods 8020 and Modified 8015a

GTEL Sample Number		05	06	07	08
Client Identification		SO-ST1	SO-ST2	SO-ST3	SO-ST4
Date Sampled		07/29/93	07/29/93	07/29/93	07/29/93
Date Extracted		08/09/93	08/09/93	08/09/93	08/09/93
Date Analyzed		08/12/93	08/12/93	08/12/93	08/12/93
Analyte	Detection Limit, mg/kg		Concentrat	ion, mg/kg	
Benzene	0.005	<0.005	<0.005	<0.005	<0.005
Toluene	0.005	<0.005	<0.005	< 0.005	<0.005
Ethylbenzene	0.005	< 0.005	<0.005	< 0.005	<0.005
Xylene, total	0.015	<0.015	<0.015	<0.015	<0.015
BTEX, total					
TPH as Gasoline	1	<1	<1	<1	<1
Detection Limit Multiplier		1	1	1	1
Percent solids		92.4	92.7	95.3	90.3
BFB surrogate, % recovery		85.5	86.9	82.8	66.7

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 60-140%.
 Note: Samples were received at 12^O C.



Client Number: RMT01RMT01 Consultant Project Number: 12036.01 Project ID: Aratex Services Itant Project Number: 12036.01
Project ID: Aratex Services
330 Chestnut
Oakland, CA
Work Order Number: C3-07-0508

Table 1 (continued)

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Methods 8020 and Modified 8015a

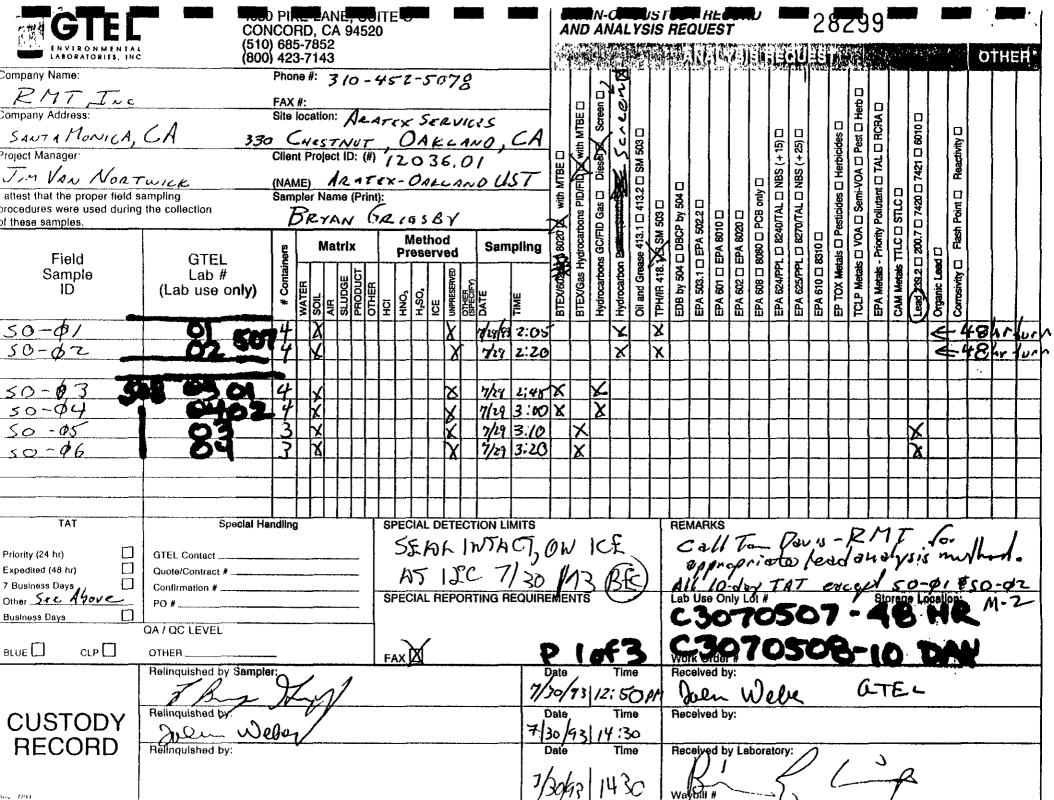
GTEL Sample Number		09	Q080993	
Client Identification		SO-ST5	METHOD BLANK	
Date Sampled		07/29/93	**	
Date Extracted		08/09/93	08/09/93	
Date Analyzed		08/12/93	08/09/93	
Analyte	Detection Limit, mg/kg		Concentrat	ion, mg/kg
Benzene	0.005	< 0.005	<0.005	
Toluene	0.005	< 0.005	<0.005	
Ethylbenzene	0.005	< 0.005	<0.005	
Xylene, total	0.015	<0.015	<0.015	
BTEX, total	-			
TPH as Gasoline	1	<1	<1	
Detection Limit Multiplier		1	1	
Percent solids		92.7	NA	
BFB surrogate, % recovery		57.6	90.5	

NA = Not Applicable.

Note: Samples were received at 12° C.



Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Modification for TPH as gasoline as per California State Water Resources Board LUFT Manual procedures. Bromofluorobenzene surrogate recovery acceptability limits are 60-140%.



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4080 Pike Lane Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA (800) 423-7143 Outside CA (510) 825-0720 FAX Client Number: RMT01RMT01 Consultant Project Number: 12036.01 Project ID: Oakland Work Order Number: C3-08-0014

August 9, 1993

James Van Nortwick RMT, Inc. 3250 Ocean Park Blvd., Suite 370 Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 08/02/93, under chain of custody record 28219.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Eileen F. Bullen

Laboratory Director

Client Number: RMT01RMT01 Consultant Project Number: 12036.01 Project ID: Oakland Work Order Number: C3-08-0014

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons in Soil by Infrared Spectrometry ¹

EPA 3550 (Mod.)/EPA 418.1 (SM 5520 FC)²

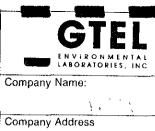
GTEL Sample Number		01	02	03	080593 TPH
Client Identification		MOP #1	MOP #2	MOP #3	METHOD BLANK
Date Sampled		08/02/93	08/02/93	08/02/93	-
Date Prepared		08/03/93	08/03/93	08/03/93	08/03/93
Date Analyzed		08/03/93	08/03/93	08/03/93	08/03/93
_л Analyte	Detection Limit, mg/Kg		Concentrat	ion, mg/Kg	
Total Petroleum Hydrocarbons	5	290	110	140	<5
Detection Limit Multiplier		1	1	1	1
Percent solids		96.6	99.1	98.6	NA

The sample is sonication extracted using a modification of EPA 3550. The extract is analyzed, as in EPA 418.1 (SM 5520 CF), to yield results reported as Total Petroleum Hydrocarbons. Results are reported on a wet weight basis. NA = Not Applicable.

Standard Methods for the Examination of Water and Wastewater, 17th ed., American Public Health Association,



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CUSTODY RECORD

Priority (24 hr)

Expedited (48 hr)

7 Business Days

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Rev 7/91

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QA / QC LEVEL

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Project Manager.

of these samples

4080 PIKE LANE, SUITE C CONCORD, CA 94520 (510) 685-7852 (800) 423-7143

Client Project ID: (#)

Sampler Name (Print):

Matrix

WATER SOIL AIR SLUDGE PHODUCT OTHER HCI HNO₃

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(NAME)

Containers

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GTEL

Lab #

(Lab use only)

Site location:

Phone #: - 10 / 57 36275

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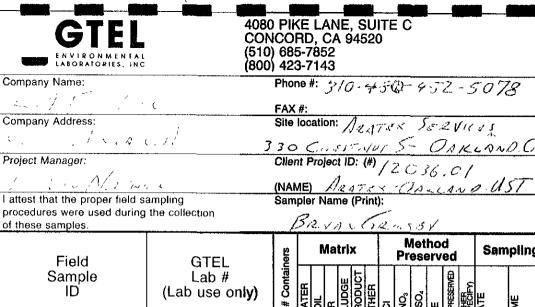
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CHAIN-OF-CUSTODY RECORD

AND ANALYSIS REQUEST

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Waybill #



Northwest Region 4080 Pike Lane Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720 Client Number: RMT01RMT01
Consultant Project Numbe: 12036.01
Project ID: Aratex Services
330 Chestnut St., Oakland

Work Order Number: C3-07-0519

August 16, 1993

Bryan Grigsby RMT, Inc. 3250 Ocean Park Blvd., Suite 370 Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 07/31/93, under chain of custody record 28302.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

Eileen F. Bullen

Laboratory Director

Client Number: RMT01RMT01
Consultant Project Numbe: 12036,01
Project ID: Aratex Services
330 Chestnut St., Oakland
Work Order Number: C3-07-0519

Table 1

ANALYTICAL RESULTS

Total Petroleum Hydrocarbons as Diesel Fuel in Soil

Modified EPA Methods 3550/8015a

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis.

wet weight basis.		···			
GTEL Sample Number	,	01*	02*	03+	04
Client Identification		SO-07	SO-08A	SO-09	SO-10
Date Sampled		07/30/93	07/30/93	07/30/93	07/30/93
Date Extracted	_	08/05/93	08/05/93	08/05/93	08/05/93
Date Analyzed		08/11/93	08/12/93	08/11/93	08/11/93
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	1300	9400	62	<10
Detection Limit Multiplier		20	100	1	1
Percent solids		91.4	90+	91.7	92.7
OTP surrogate, % recovery		137	109	102	102

GTEL Sample Number		05*	081093 GC-K		
Client Identification		SO-11	METHOD BLANK		
Date Sampled		07/30/93			
Date Extracted		08/05/93	08/05/93		
Date Analyzed		08/12/93	08/10/93		
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	4200	<10		
Detection Limit Multiplier		20	1		
Percent solids		91.3	NA		
OTP surrogate. % recovery		85.8	112		

^{*} Detection limit raised due to the high concentration of target compounds

+ Other hydrocarbons also present.



Client Number: RMT01RMT01 Consultant Project Numbe: 12036.01 Project ID: Aratex Services

330 Chestnut St., Oakland Work Order Number: C3-07-0519

Table 1

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Method 8020a

GTEL Sample Number		01	02*	03*	04
Client Identification		SO-07	SO-08A	SO-09	SO-10
Date Sampled		07/30/93	07/30/93	07/30/93	07/30/93
Date Extracted		08/11/93	08/11/93	08/11/93	08/12/93
Date Analyzed		08/13/93	08/13/93	08/13/93	08/12/93
Analyte	Detection Limit, mg/kg		Concentrat	ion, mg/kg	
Benzene	0.005	0.014	<0.05	<0.010	<0.005
Toluene	0.005	0.021	<0.05	<0.010	0.011
Ethylbenzene	0.005	<0.005	<0.05	<0.010	<0.005
Xylene, total	0.015	< 0.015	<0.15	0.059	<0.015
BTEX, total		0.035		0.059	
Detection Limit Multiplier		1	10	2	1
Percent Solids		91.4	90.8	91.7	92.7
BFB surrogate, % recovery		110	99.5	93.4**	78.0

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 31-127%



Detection limit raised due to high levels of hydrocarbons

TFT reported due to target compound interference at the BFB peak.

Client Number: RMT01RMT01
Consultant Project Numbe: 12036.01
Project ID: Aratex Services 330 Chestnut St., Oakland
Work Order Number: C3-07-0519

Table 1 (Continued)

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Method 8020a

GTEL Sample Number		05	F081193	
Client Identification		SO-11	METHOD BLANK	
Date Sampled		07/30/93		
Date Extracted		08/12/93		
Date Analyzed		08/12/93	08/11/93	
Analyte	Detection Limit, mg/kg		Concentrat	tion, mg/kg
Benzene	0.005	0.010	<0.005	
Toluene	0.005	0.009	< 0.005	
Ethylbenzene	0.005	<0.005	< 0.005	
Xylene, total	0.015	0.015	< 0.015	
BTEX, total		0.034		
Detection Limit Multiplier		1	1	
Percent Solids		91.3	NA	
BFB surrogate, % recovery		58.1	105	

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 31-127% NA = Not Applicable.



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FINAL

APPENDIX I
LABORATORY REPORTS
SOIL SAMPLING ACTIVITIES

518s 9-93



Northwest Region

4080 Pike Lane Suite C Concord, CA 94520 (510) 685-7852 (800) 544-3422 Inside CA FAX (510) 825-0720

October 19, 1993

Robert Suhosky RMT Laboratories, Inc. 3250 Ocean Park Blvd., Suite 370 Santa Monica, CA 90405

Enclosed please find the analytical results for samples received by GTEL Environmental Laboratories, Inc. on 09/24/93, under chain of custody records 045493 and 045494.

A formal Quality Assurance/Quality Control (QA/QC) program is maintained by GTEL, which is designed to meet or exceed the EPA requirements. Analytical work for this project met QA/QC criteria, unless otherwise stated in the footnotes.

GTEL is certified by the California State Department of Health Services, Laboratory certification number E1075, to perform analyses for drinking water, wastewater, and hazardous waste materials according to EPA protocols.

If you have any questions concerning this analysis or if we can be of further assistance, please call our Customer Service Representative.

Sincerely,

GTEL Environmental Laboratories, Inc.

loon J. Bullen

Eileen F. Bullen

Laboratory Director

Table 1

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Method 8020a

GTEL Sample Number		09	13 ^b	14	15
Client Identification		SB-6-5	SB-11	\$B-10	SB-14
Date Sampled		09/22/93	09/23/93	09/23/93	09/23/93
Date Extracted		10/06/93	10/06/93	10/06/93	10/06/93
Date Analyzed		10/07/93	10/07/93	10/07/93	10/07/93
Analyte	Detection Limit, mg/kg		Concentrat	ion, mg/kg	
Benzene	0.005	0.094	<0.05	<0.005	<0.005
Toluene	0.005	0.021	30	<0.005	<0.005
Ethylbenzene	0.005	0.052	0.89	<0.005	<0.005
Xylene, total	0.015	0.072	17	<0.015	< 0.015
BTEX, total		0.24	48		
Detection Limit Multiplier		1	10	1	1
Percent Solids		86.0	81.1	91.0	90.5
BFB surrogate, % recovery		74.2	108 ^C	76.9	70.3

Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 60-140%



b. Detection limit raised due to high levels of hydrocarbons.

c. TFT recovery reported due to matrix interference at BFB peak.

Table 1 (Continued)

ANALYTICAL RESULTS

Volatile Organics in Soil

EPA Method 8020a

GTEL Sample Number		Z100693			
Client Identification		METHOD BLANK			
Date Sampled					
Date Extracted		10/06/93			
Date Analyzed		10/06/93			
Analyte	Detection Limit, mg/kg		Concentra	tion, mg/kg	
Benzene	0.005	<0.005			
Toluene	0.005	<0.005			
Ethylbenzene	0.005	<0.005			
Xyiene, total	0.015	<0.015			
BTEX, total	_				
Detection Limit Multiplier		1			
Percent Solids		NA			
BFB surrogate, % recovery		93.1			

a. Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Bromofluorobenzene surrogate recovery acceptability limits are 60-140%. NA = Not Applicable.



Table 1

ANALYTICAL RESULTS Total Petroleum Hydrocarbons as Diesel Fuel in Soil Modified EPA Methods 3550/8015^a

- Test Methods for Evaluating Solid Waste, SW-846, Third Edition, Revision 0, US EPA November 1986. Results reported on a wet weight basis.
- b. Hydrocarbon pattern not indicative of diesel hydrocarbon requested.
- c. Sample extract lost during extraction. Not enough sample for re-extraction.

NA = Not Available.

GTEL Sample Number		09b	13 ^C	14	15
Client Identification		SB-6-5	SB-11	SB-10	SB-14
Date Sampled		09/22/93	09/23/93	09/23/93	09/23/93
Date Extracted		10/06/93	NA	10/06/93	10/06/93
Date Analyzed		10/15/93	NA	10/15/93	10/15/93
Analyte	Detection Limit, mg/Kg		Concentration	n, mg/Kg	
TPH as diesel fuel	10	<10	NA	<10	<10
Detection Limit Multiplier		1	NA	1	1
Percent solids		86.0	NA	91.0	90.5
OTP surrogate, % recovery		91.4	NA	76.9	82.8

GTEL Sample Number		100693 GCI	
Client Identification		METHOD BLANK	
Date Sampled			
Date Extracted		10/06/93	
Date Analyzed		10/14/93	
Analyte	Detection Limit, mg/Kg		Concentration, mg/Kg
TPH as diesel fuel	10	<10	
Detection Limit Multiplier		1	
Percent solids		NA	
OTP surrogate, % recovery		95.1	



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GTEL Client Project ID: 12036.01 Sampled: Sep 22-23, 1993

4080 Pike Lane, Ste. C Sample Descript: Soil, SB-6-5, SB-11, SB-10, SB-14 Received: Jan 12, 1994

Concord, CA 94520 Analyzed: Jan 14, 1994 Attention: Debra Tiernan Lab Number: 401-0369 Reported: Jan 18, 1994

INORGANIC PERSISTENT AND BIOACCUMULATIVE TOXIC SUBSTANCES

Soluble Threshold Limit Concentration

Total Threshold Limit Concentration

Waste Extraction Test

Analyte	STLC Max. Limit (mg/L)	Detection Limit (mg/L)	Analysis Result (mg/L)	TTLC Max. Limit (mg/kg)	Detection Limit (mg/kg)	Analysis Result (mg/kg)
Antimony	15	0.10	-	500	5.0	N.D.
Arsenic	5.0	0.10		500	5.0	N.D.
Barium	100	0.10		10.000	0.50	58
Beryllium	0.75	0.010	-	75	0.50	N.D.
Cadmium	1.0	0.010	- }	100	0.50	N.D.
Chromium (VI)	5.0	0.0050	-	500	0.050	
Chromium (III)	560	0.010		2,500	0.50	
Cobalt	7/32/38 80 (3):53/03	0.050		8,000	0.50	
Copper	25	0.010		2,500	0.50	50
Lead	5.0	0.10		1,000	1.0	7. j. g. j . 18 g. g. j. j. j. j. j. j. j. j. j. j. j. j. j.
Mercury	0.20	0.00020		ggalgas (p. 17 20 00).	0.010	0.085
Molybdenum	350	0.050		3,500	0.50	0.61
Nickel	20	0.050		2,000	1.0	23
Selenium	1.0	0.10	-	100	5.0	N.D.
Silver	5.0	0.010	-	500	0.50	N.D.
Thallium	7.0	0.10	-	700	5.0	N.D.
Vanadium	24	0.050		2,400	0.50	21
Zine Zine	250	0.010		5,000	1.0	85
Asbestos	•	10	-	10,000	100	-
Fluoride	180	0.10	-	18,000	1.0	-

TTLC results are reported as mg/kg of wet weight. Asbestos results are reported as fibers/g. Analytes reported as N.D. were not present above the stated limit of detection.

SEQUOIA ANALYTICAL

Karen L. Enstrom Project Manager

Client Project ID:

78.78.07.48.07.79.79.98.88.88.88.88.89.00.0.47.17.98.09 12036.01

Sampled: Received:

09/22-09/23 Jan 12, 1994

4080 Pike Lane, Ste. C Concord, CA 94520 Attention: Debra Tiernan Sample Descript:

Soil, SB-6-5, SB-11, SB-10, SB-14

Analyzed: Jan 12-14, 1994

Attention: Debra Tiernan Lab Number: 401-0369 Reported: Jan 18, 1994

CORROSIVITY, IGNITABILITY, AND REACTIVITY

Analyte	Detection Limit	Sample Results
Corrosivity:	N.A.	 7.4
Ignitability: Flashpoint (Pensky-Martens), °C	N.A.	 > 100 °C
Reactivity: Sulfide, mg/kg Cyanide, mg/kg Reaction with water	13 0.50 N.A.	 N.D. N.D. Negative

Analytes reported as N D were not present above the stated limit of detection

SEQUOIA ANALYTICAL

aren L. Enstrom roject Manager

i Grandini sa kalang kanang Kalawa sa 193 **GTEL**

4080 Pike Lane, Ste. C

Concord, CA 94520

Attention: Debra Tiernan

PROPERTY AND EAST OF THE SECOND AND THE SECOND ASSOCIATION OF A CONTRACT OF THE SECOND ASSOCIATION OF A CONTRACT OF THE SECOND ASSOCIATION OF THE SE Client Project ID: 12036.01

Matrix: Solid

QC Sample Group: 401-0369 a naka 2001 nakabangan maka wangaraga makabang katang katang mangang dalam ang manggaran da kang makadi mga wan

Reported: Jan 19, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Thallium	Selenium	Arsenic	Molybdenum	Cobalt	Mercury	· <u>, , , , , , , , , , , , , , , , , , ,</u>
Method: Analyst:	EPA 6010 J.D./S.P.	EPA 7471 K.V.S.					
MS/MSD Batch#:	3112504	3112504	3112504	3112504	3112504	4010369	÷.
Date Prepared: Date Analyzed: Instrument I.D.#: Conc. Spiked:	1/12/94 1/14/94 Liberty-100 50 mg/kg	1/12/94 1/14/94 Liberty-100 50 mg/kg	1/12/94 1/14/94 Liberty-100 50 mg/kg	1/12/94 1/14/94 Liberty-100 50 mg/kg	1/12/94 1/14/94 Liberty-100 50 mg/kg	1/13/94 1/14/94 SpectrAA-20 0.50 mg/kg	
Matrix Spike % Recovery:	83	. 80	89	81	82	89	
Matrix Spike Duplicate % Recovery:	87	85	95	84	88	89	
Relative % Difference:	4.7	6.1	6.5	3.6	7.1	0.0	

LCS Batch#:	BLK011294	BLK011294	BLK011294	BLK011294	BLK011294	BLK011394	
Date Prepared: Date Analyzed: Instrument I.D.#:	1/12/94 1/14/94 Liberty-100	1/12/94 1/14/94 Liberty-100	1/12/94 1/14/94 Liberty-100	1/12/94 1/14/94 Liberty-100	1/12/94 1/14/94 Liberty-100	1/13/94 1/14/94 SpectrAA-20	
LCS [·] % Recovery:	85	92	94	90	91	85	
% Recovery Control Limits:	75-125	75-125	75-125	75-125	75-125	75-125	

SEQUOIA ANALYTICAL

Karen L. Enstrom Project Manager

Please Note

The LCS is a control sample of known, interferent free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch

4080 Pike Lane, Ste. C

1/12/94

Client Project ID: erren i germente se mienten wie eersten en de beschielte skend als de enseele skend als de enseele en 12036.01

Concord, CA 94520

Date Analyzed:

Matrix:

Solid

Attention: Debra Tiernan QC Sample Group: 401-0369 Reported: Jan 19, 1994

QUALITY CONTROL DATA REPORT

ANALYTE	Corrosivity	Ignitability	Reactive	Reactive	 ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
			Cyanide	Sulfide	
Method:	EPA 9045	EPA 1010	SW 846	SW 846	
Analyst:	A. Pannu	D. Newcomb	M. Nguyen	K. Newberry	

1/14/94

1/14/94

Sample #:	4010369	4010369	9401529-01	9401529-01
Sample Concentration:	7.4	> 100 °C	Ŋ.D.	N.D.
Sample Duplicate Concentration:	7.4	> 100 °C	N.D.	N.D.
% RPD:	0.0	0.0	0.0	0.0
% RPD: Control Limits:	0-30	0-30	±20	±20

1/12/94

SEQUOIA ANALYTICAL

Karen L. Enstrom Project Manager

GTEL		4080 CON (510 (800	1CO 1) 68	IRD, 15-78	CA 352	E, SI 945	JITE 20	ΞC	Sı		COP Loc		act	······								OD REC				7D									,	33	46	6
Company Name GTEL Company Address Sayme as Project Manager. Kevin Lattest that the proper	, above Bales-Ri	чт		3-71	PI F/ Si Cl	AX # te Lo	ro Pro	ject		(#)	121		6.0	1	ТВЕ□	ID/FID Unith MTBE	sel 🗀 Screen	□ (s	413.2 □ SM-503 □		[]				only 🗀	□ NBS (+15) <u></u>	☐ NBS (+25) <u></u>	:	Pesticides 🗍 Herbicides 🗀	Semi-VOA ☐ Pest ☐ Herb	ant CTAL C BCRA	£J	5 = 7421 = 6010 =		Corrosivity X Flash Point & Reactivity X (RC ()			
procedures were use callection of these sa	ed during the	J		Matı	rix			- A	lett	od			Sam	pling	☐ 8020 ☐ with N	BTEX/Gas Hydrocarbons PID/FID	ins GC/FID Gas	rofile (S	Grease 413.1 ☐ 41.	SM 503	t ☐ DBCP by 504	EPA 502.2	EPA 8010	EPA 8020 🗀	8080 = PCB	PL = 8240/TAL	_ 8270/TAL	8310 🗀	[1.1]	\ VOA	- Pnonty Pollutant 🗀 TAL	CAM Metals TTLC X STLC	□ 200.7 □ 7420 □	ad E.	X Flash Point X			
Sample ID	Lab # (Lab Use) only	# CONTAINERS	Nos Ch	AIR	SLUDGE	ОТНЕВ	Ę	HNOS	H ₂ SO ₄	GE CE	SERVED		DATE	TIME	BTEX 602	BTEX/Gas	Hydrocarbons	Hydrocarbo	Oil and Gre	₩	EDB by 504	€PA 503.1	EPA 601	EPA 602	EPA 608	EPA 624/PPL	EPA 625/PPL	EPA 610 □	EP TOX Metals	TCLP Metals	EPA Metals	CAM Metals	Lead 239.2	Organic Lead				
SB-6-5 SB-11 SB-10 SB-14		-	XXX							X X X			922 923 923		1	CL	171	PUS	1.1	E	2) 	Aı	JA	LY	<i>Z.</i> (5 9	P	4	0	10	3	6	X 	A)
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TAT Priority (24 hr) [] C Expedited (48 hr) [] C	10, 1994 Specia GTEL Contact Quote/Contract#	I Han				- '	$\mathcal{D}_{\mathbf{k}_1}$	10	٤,	Do	V	11	MITS Web	1: \$	193	3. 4	D -	RC	- 1	REA C	DW	I KS: NPC HE								PI.	LES	L S	11\	iT	O	1	_ _ -	
OtherBusiness Days 11 P O # SPECIAL REPORTING REQUIREMEN						MENT	s) &	21 -			,	,	Use	Only GET rder	y Loi	#: Si	eq					CO	rd	Stora	age	Loca	stion											
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FINAL

APPENDIX J SOIL EXCAVATION WORK PLAN

December 7, 1993

Ms. Jennifer Eberle
Alameda County Health Care Service Agency
Department of Environmental Health
UST Local Oversight Program
80 Swan Way, Room 200
Oakland, CA 94621

Re:

ARATEX Services, Inc., 330 Chestnut Street, Oakland, California Soil Sampling Results/Proposed Soil Excavation Activities

Dear Ms. Eberie:

On September 29, 1993, three underground storage tanks were removed from the referenced facility. As you know, evidence of a diesel fuel release was identified in the vicinity of the diesel fuel dispenser vault area and the fuel regulator located along the loading dock wall during tank removal activities. In response to these finding, ARATEX Services, Inc., (ARATEX) engaged the services of RMT, Inc., (RMT) to conduct soil sampling activities and evaluate potential remediation techniques for the diesel fuel impacted soil.

The results of the soil sampling activities indicate that the extent of diesel fuel contamination is limited to the area immediately surrounding each dispenser vault and the diesel fuel regulator (See Attached Figures). Based on these findings and a review of available remedial techniques, limited soil excavation and off-site disposal has been selected for the remediation of the diesel fuel impacted soil at the ARATEX facility.

It is anticipated that the soil excavation activities will be conducted during January 1994. Soil samples will be collected from the base of the excavations to confirm that impacted soils have been removed. A description of the soil excavation activities and the soil sampling results will be included in the Tank Removal Documentation report.

If you have any questions please feel free to contact me at (310) 578-1241 or Robert J. Robbins of Aratex at (608) 492-3222.

Sincerely.

James W. Van Nortwick, Jr., Ph.D., P.E

Project Manager

enc.

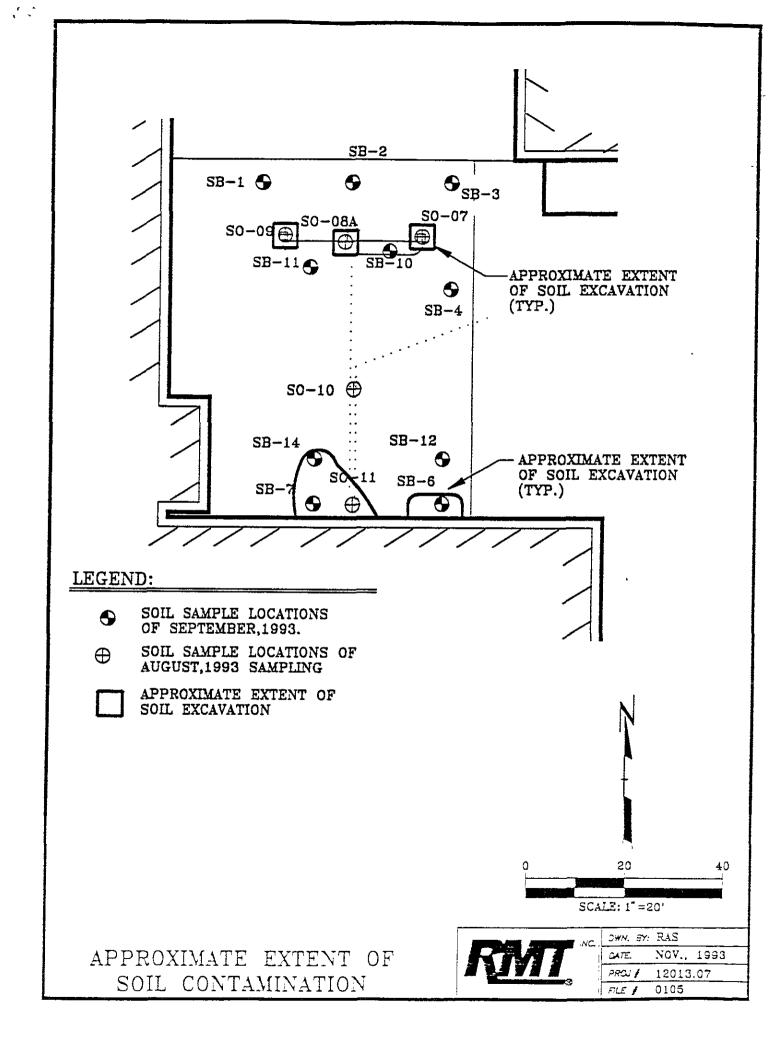
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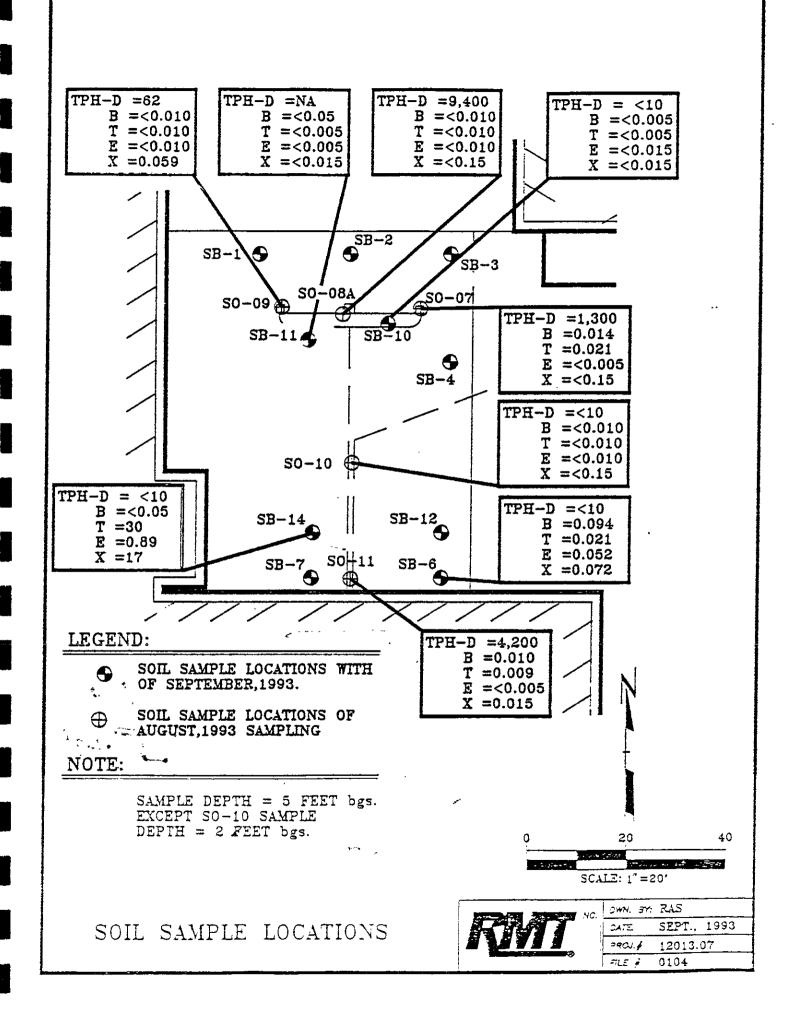
Robert J. Robbins, C.P.G.

Phillip Krejci



RMT, INC. — LOS ANGELES 4640 Admiralty Way - Suite 301 Marina del Rey, CA - 90292-6621 310/578-1241 = 310/821-3280 FAX





FINAL

APPENDIX K BILLS OF LADING AND CERTIFICATES OF RECYCLING



415/228-7266

1-24

No. 07431 TAG-BILL OF LADING KROEKER. CONTRACTOR: ARATEX SOURCE: LOT # OARHAND CASH SALE DATE CONTAMINANT TYPE UNIT WEIGHT 01/24/\$4 08:21 RM **GROSS** LBS TÁRE S AM n1/24/94 09: 30800 LE 45400 LBS NET TIME ON SCALE WEIGHT PER C/F TIME OFF SCALE TRAILER NO. 24.21 **GROSS & TARE** OFF 🗆 ON 🗆 DRIVER SUB TOTAL BARGE: % SALES TAX ☐ CONTAINER TOTAL ☐ BULK [] OTHER SEAL #

SIGN

CARRIER: DATE:

PORT COSTA MATERIALS, INC.

WEIGHMASTE

WEIGHMASTER CERTIFICATE

THIS IS TO CERTIFY that the following described commodity was weighed, measured, or counted by a weighmaster, whose signature is on this certificate, whose signature is on this certificate, whose signature is on this certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is on the certificate, whose signature is only a certificate in the certi is a recognized authority of accuracy, as prescribed by Chapter 7 (commencing with Section 12700) of Division 5 of the California Business and Professions Coo administered by the Division of Measurement Standards of the California Department of Food and Agriculture.

No. 07431 CS



24/94

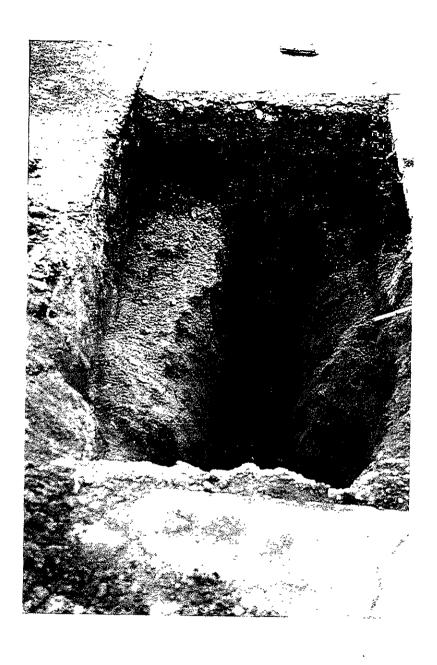
P.O. BOX 5D • 9000 Carquinez Scenic Drive • Port Costa, CA 94569

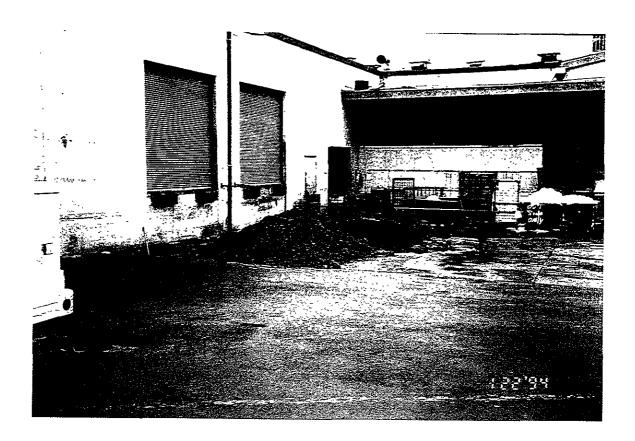
415/228-7298					
CONTRACTOR: Kroeker		TAG-BILL OF LAD	ing No.	07430	CS
BOURCE: Argtex Dakland		1	_OT #	405	
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THIS IS TO CERTIFY that the following described commodity was	s weighed, meas commencing with	بقصفا والحاج المحاجرين مناسب		e signature is on mia Business and	this certificate, wi d Professions Coo

administered by the Division of Measurement Standards of the C

APPENDIX L PHOTO DOCUMENTATION OF SOIL EXCAVATION ACTIVITIES









MARCH 1994

ARATEX SERVICES, INC.

FINAL

APPENDIX M LABORATORY REPORTS SOIL EXCAVATION ACTIVITIES

1-22-94

LABORATORY REPORT

Laboratory Number: 208369

Page 1 of 3

Date Received: 01/24/94

Date Reported: 01/28/94

Issued To: RMT, INC.

4640 ADMIRALTY WAY

SUITE 301

MARINA DEL REY, CA 90292-6621

ATTN: R. SUHOSKY

Project I.D.: 12013.11

Location: ARATEX OAKLAND

Report On: FIVE SOLID SAMPLES ANALYZED AS SPECIFIED ON ATTACHED CHAIN OF CUSTODY

This report certifies that the samples were received in good condition (i.e. intact, chilled, and/or preserved appropriately) and that strict chain of custody procedures were adhered to at all times. It further certifies that the methods of analysis used are in fact those listed within this report and that Curtis & Tompkins, Ltd. has current certification for all work performed in the laboratory. Exceptions to this statement are specifically noted in the analytical report or on the attached chain of custody.

Reviewed By

Day Open

Berkeley

Irvine

TOTAL EXTRACTABLE PETROLEUM HYDROCARBONS

Laboratory I.D.: 208369 Client: RMT, INC.

Matrix: Solid

Method: DHS LUFT Procedure (Modified EPA 8015)

Extraction: EPA 3550 Sonication Extraction

Page 2 of 3

Laboratory Sample Gasoline Kerosene Diesel Motor Oil Date Surr. āС Analytical Notes I.D. LD. (mg/Kg) (mg/Kg) (mg/Kg) Range Run % Rec. Batch (mg/Kg) **BRO/HEX** E-1 (1') » 1 670(a,b) ND ND 1,100 01/28/94 103 / 86 Α a - 1:10 Dilution run on 2 C-1 (8°) ND ND 38 ND 01/28/94 83 / 77 01/28/94. Α B-1 (8) 67 9 3 ND ND 150 ND 01/28/94 89 / 86 Α 4 A-1 (9'6") ND ND ND ND 01/28/94 78 / 78 Α b - Sample hydrocarbon 5 D-1 (9') ,/ ND ND ND ND 01/28/94 84 / 83 Α pattern does not match respective standard fuel pattern. Method Blank ND ND ND ND 01/27/94 80 / 86 Α Detection Limit: 10 10 10 40 Date Sampled: 01/22/94 Date Extracted: 01/25/94 Surrogates Used: BRO = Bromobenzene HEX = Hexacosane Quality Control Data Summary Method Blank, Laboratory Control Sample, Matrix Spike/Matrix Spike Duplicate Data Batch I D Sample Spike LCS ФC Spike Spk Dup QC RPD QC 1D Amount %Rec Limits %Rec %Rec Limits Limits (mg/Kg) Α 208369-004 100 85 80-120 80 95 66-117 17 24

BENZENE, TOLUENE, ETHYL BENZENE, & TOTAL XYLENES

Laboratory I.D.: 208369 Client: RMT, INC. Matrix Solid

Method: EPA 8020

Extraction: EPA 5030 Purge & Trap



l.D.	Sample I.D.	Benzene (ug/Kg)	Toluene (ug/Kg)	Ethyl Benzene (ug/Kg)	Total Xylenes (ug/Kg)	Date Run	Surr. % Rec.	QC Batch	Analytical Notes
1	E-1 (1')	ND(500)a	ND(500)a	ND(500)a	ND(500)a	01/25/94	93	Α	a - Raised Detection limit due
2	C-1 (8')	ND	ND	ND	ND	01/26/94	105	Α	to high concentration of
3	B-1 (8')	ND	ND	ND	ND	01/26/94	96	Α	non-target hydrocarbons in
4	A-1 (9'6")	ND	ND	ND	ND	01/25/94	102	Α	sample. Amended Detection
5	D-1 (9')	ND	ND	NĐ	ND	01/26/94	103	A	limit in parenthesis.
Method Blank		ND	ND	ND	ND	01/25/94	104	A	
etection Limit:		5	5	5	5				
iurrogate Used: a,a,í	a-Triffuorotoluene	- N-10-	Quality Con	troi Data Su	mmary				
urrogate Used: а,а,і		Control Sample		-	· ·	e Data			
		Control Sample		-	· ·	e Data			
urrogate Used: a,a,i		Control Sample Spike Amount (ug/Kg)		-	· ·	Data Spk Dup %Rec	QC Limits	RPD	QC Limits

ABBREVIATIONS

cb

BTEX - Benzene, Toluene, Ethyl Benzene, and Total Xylenes.

CCR - California Code of Regulations.

DHS - California Department of Health Services.

EPA - United States Environmental Protection Agency.

LCS - Laboratory Control Spike

LUFT - Leaking Underground Fuel Tank.

MDL - Method Detection Limit

NA - Not Applicable.

NC - Not Calculable

ND - Not Detected at or above the defined detection limit.

PQL - Practical Quantitation Limit

RPD - Relative percent difference.

STLC - Soluble Threshold Limit Concentration.

Surr. - Surrogates.

TCLP - Toxicity Characteristic Leaching Procedure.

TEH - Total Extractable Petroleum Hydrocarbons.

Title 26 - Title 26 of the California Code of Regulations (CCR).

TR~ - Trace, estimated value .

TTLC - Total Threshold Limit Concentration.

TVH - Total Volatile Hydrocarbons.

WET - Waste Extraction Test.

UNITS

cm3 - Cubic centimeter

Kg - kilogram.

L - Liter.

mg - Milligrams.

M3 - Cubic meter.

1umhos/cm - uS/cm - Micro Siemens/centimeter

ppb - Parts per billion.

ppm - Parts per million.

ug - Micrograms.

ppby - Parts per billion per unit volume

LABORATORIES		Mauison, Wils. 744 Heartland Phone (608) 83 FAX (608) 831-	Trail 11-4444	Santa Monica, CA Atlanta, GA Baton Rouge, LA Troy, MI		rand Le ashville		11			nville, SC umburg, IL		Dublin, On Waukesha, V		1
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RMT Yr. 94 Lab NO Date	Time	s	ample Station	n JD	Total Number Of Containers		(H)		//		ME	C	omments:	E-F F -}}. -}}.	CI
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1/22		<u> </u>	(9'6	<u>n)</u>		1						SOIL			
1/22		D-L	(91)			1				 		SOIL	<u> </u>		
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