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### UNDERGROUND STORAGE TANK CLOSURE REPORT

Grand Marina 2099 Grand Street Alameda, California

#### Submitted to:

Mr. Rob Weston Alameda County Health Agency

Prepared by:

Geologica Inc.

January 27, 2006

SEPT 22,2005



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Innovative Strategies for Environmental Liability Management

January 27, 2006

Rob Weston Alameda County Health Agency 1131 Harbor Bay Parkway Alameda, California 94502

> RE: UNDERGROUND STORAGE TANK CLOSURE REPORT GRAND MARINA ALAMEDA, CALIFORNIA

Dear Mr. Weston:

A copy of the Underground Storage Tank Closure Report for the Grand Marina property in Alameda, California is enclosed with this letter. The report includes data summaries and laboratory reports to comply with the requirements of tank removal permit #F05-0119. The report also provides supporting documentation from past investigations at the Grand Marina facility to address monitoring and reporting concerns related to the current tank removal. Additional investigations are proposed for the lead impacts identified at the Marina pumphouse. Should you have any questions or comments, please call me at (415) 597-7882 (office) or (707) 799-8097 (cell).

Very truly yours, GEOLOGICA INC.

Gene Suemnicht Senior Associate

# UNDERGROUND STORAGE TANK CLOSURE REPORT

GRAND MARINA
2099 GRAND STREET
ALAMEDA, CALIFORNIA

Mr Rob Weston

Alameda County Health Agency

1131 Harbor Bay Parkway

Alameda, CA 94502

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#### List of Acronyms

ACDHS Alameda County Department of Environmental Health

AST aboveground storage tank

BAAQMD Bay Area Air Quality Management District

BTEX benzene, toluene, ethylbenzene and xylenes

CalEPA Environmental Protection Agency (State of California)

EPA Environmental Protection Agency (United States)

LEL lower explosive limit

mg/kg milligrams per kilogram

MTBE methyl tert-butyl ether

PAH poly-aromatic hydrocarbons

PCBs poly-chlorinated biphenyls

RWQCB Regional Water Quality Control Board

STLC soluble threshold limit concentration

SVOCs semi volatile organic compounds

 $TPH_{g, d, mo}$  total petroleum hydrocarbons (purgeable [gasoline] and

extractable [diesel, motor oil] fractions)

USA Underground Service Alert

UST underground storage tank

VOA volatile organic analytes

VOCs volatile organic compounds

# Underground Storage Tank Closure Report Grand Marina 2099 Grand Street Alameda, California

#### 1 Introduction

GEOLOGICA Inc. (GEOLOGICA) provided geologic support for an underground storage tank (UST) removal at Grand Marina in the northeastern part of Alameda, California (Figure 1). The tank was removed by Zaccor Companies Inc. (Zaccor) under Permit #F05-0119 issued 10/18/05, 2005 by the City of Alameda. The UST was removed in accordance with appropriate federal, state, and local regulations and should allow completion of paving work for redevelopment of the site.

Analytical results from the tank excavation and stockpiled soils indicate limited impacts related to organic contaminants. Analyses indicated that the tank pit fill material was suitable for backfill in part of the excavation and analytical results of excavation wall samples identified hydrocarbon impacts in the northern part of the tank pit. Additional excavation removed a sufficient volume of contaminated soils and verification sample analyses detected 350 mg/kg of diesel range hydrocarbons remained in the soils.

The details of tank removal, sample collection and analytical results are discussed in the following sections:

- Section 1 Introduction
- Section 2 Site Background
- Section 3 Tank Removal
- Section 4 Analytical Results
- Section 5 Site Closure
- Section 6 Conclusions
- Section 7 References

Underground Storage Tank Closure Report Grand Marina Alameda, CA geologica

#### 1.1 REGULATORY FRAMEWORK

Grand Marina elected to remove a pair of 12,000 gallon underground storage tanks (USTs) that had supplied gasoline and diesel fuel to a commercial fueling dock on the northern side of the marina (Figure 2). The City of Alameda Fire Department issued permit #F05-0119 to remove the tank and backfill the excavation if analytical results indicated no significant impacts. All storage tank remediation work is controlled by the Alameda County as the lead agency designated by the San Francisco Region Water Quality Control Board (RWQCB).

#### 2 SITE BACKGROUND

Alameda Island lies immediately west of Oakland bordered by the Oakland Estuary to the east, San Leandro Bay to the south and San Francisco Bay to the north and west. The Oakland Inner Harbor and Estuary separate the island from the City of Oakland. The island has been a commercial and residential site since the turn of the century and the majority of the historic facilities harbor facilities are situated on the northern part of the island bordering the Estuary. Grand Marina is an irregularly shaped parcel facing the Oakland Estuary.

A history of the site and the surrounding properties compiled by Bloomfield (1987) and SECOR (1996) includes:

1839 to 1942	Alaska Packer Association operated a fishing fleet
1906 to 1917	Taylor and Company operates a lumber yard
1917 to 1930	City of Alameda Corporation Yard for repair, carpentry, blacksmithing and a dog pound (still listed on commercial maps)
1930 to 1952	Union Oil Company (Unocal) leased a portion of the site from Harbor Tug and Barge for a tank farm storing gasoline, diesel, fuel oil, kerosene, aviation fuel and other petroleum compounds in aboveground storage tanks (ASTs).
1953 to 1959	W.D. McElawain, dba Bay City Fuel Co. assumed the lease from the City of Alameda and operated the tank farm as a bunker fuel depot
1926 to 1989	Harbor Tug and Barge reportedly leased portions of the site.
1959 to 1989	Harbor Tug and Barge purchased and maintained the tank farm.

1980 to 1986

Healy-Tibbets Construction Company used a portion of the site for storing marine construction equipment.

1986 to Present

Grand Marina purchased the property and currently operates the marina.

Previous environmental investigations at Grand Marina evaluated the impacts related to the ASTs at the tank farm beginning in 1987. A brief chronology of investigations includes:

- 1987 Six soil borings, six groundwater monitoring wells (Figure 3) and a series of trenches to evaluate the nature and extent of apparent impacts related to the tank farm. Approximately 285 tons of petroleum hydrocarbon contaminated soils were to a maximum depth of five feet around the tank farm. Free hydrocarbons were noted at the edge of the excavation (SECOR, 1995)
- 1988 Removed a 1000 gallon UST and found hydrocarbon impacts within the tank pit
- 1990 Versar risk assessment (SECOR, 1995)
- 1992 ASTs removed, supply lines and concrete left in place. Additional borings sampled the tank farm soils and four additional groundwater monitoring wells were installed. Elevated levels of diesel and oil and grease were detected in the soils approximately two feet beneath the tank farm with lower levels at depths greater than three feet beneath the tanks and north of the tank farm. Analysis of groundwater samples indicates high levels of gasoline, diesel and benzene near the former UST (Figure 3).
- 1993 Additional investigations including a review of surrounding properties, a pipeline integrity test, subsurface sampling and the installation of four monitoring wells. The tank farm is the most significant hydrocarbon source based on a long history of hydrocarbon handling and storage. Analyses of site fill and soils from the southern part of the tank farm detect 13 mg/kg gasoline and 800 mg/kg diesel while samples farther north yield 5.0 to 29.0 mg/kg diesel. Grab groundwater samples have elevated levels of diesel in TP-2 and TP-2A north of the tank farm and in borings PL2 and PL4 near the supply pipelines (Figure 3). Analyses do not detect gasoline range hydrocarbons but do reveal toluene, ethylbenzene and xylenes in one groundwater sample.
- 1994 Quarterly groundwater monitoring is initiated. Samples are routinely analyzed for diesel (TPHd) and benzene toluene, ethylbenzene and xylenes (BTEX) and once for polyaromatic hydrocarbons (PAHs). Analyses detect BTEX in the water from MW-2.

TPHd in wells MW-1 through 8 (MW-6A is not sampled) and PAHs flourene and naphthalene in MW-2 (Figure 3). Groundwater monitoring continued for two years.

- 1996 SECOR (1996) completed a risk assessment proposing the Grand Marina site as a
  candidate for clean closure with hydrocarbons left in place. The RWQCB allowed the
  property owners to discontinue quarterly monitoring and no further remediation was
  required. Subsequent investigations identified limited soil and groundwater impacts
  related to past site activity.
- 2004 A Phase I Environmental Site Assessment (Lowney Associates, 2004) was completed for the conversion of the southwestern part of the property to condominiums. Based on the Phase I results, subsequent Phase II evaluations of potential soil and groundwater impacts included drilling and sampling soil and groundwater from 12 borings at selected locations and potentially impacted areas (Figure 3) (Lowney Associates, 2004b; 2005).

#### 3 TANK REMOVAL

The UST was removed from Grand Marina on October 19, 2005. GEOLOGICA contracted with Zaccor Companies Inc. (Zaccor) of Alameda, California to sample the UST excavation, the excavated stockpiled material and the backfill of the tank pit. Zaccor performed its work under California Contractor's License number 478799. License certifications include: A (General Engineering); C-21 (demolition); HAZ (Hazardous Substance Removal and Remedial Actions); ASB (asbestos certification) and HIC (home improvement).

#### 3.1 PERMITS AND NOTIFICATIONS

Zaccor obtained the following permits for the Grand Marina tank remediation:

- Tank Removal Permit #F05-0119 issued October 12, 2005 from the City of Alameda.
- Air permitting was completed through the Bay Area Air Quality Management District (BAAQMD) with a Regulation 8 Rule 40 Section 401 permit for tank removal.

Copies of applicable permits are included in Appendix C. The following agencies were notified of the tank removal operations:

<u>Contact</u>	Agency	Phone number
Mr Robert Weston	ACDEH	(510) 622-2347
Mr.Kenneth Jeffery	City of Alameda Fire Department	(510) 540-3773
All on-site activities were	coordinated through ACDEH.	

Alameda, CA

#### 3.2 SITE CLEARANCE

ZACCOR contacted Underground Service Alert (USA) to clear utilities around the excavation site on October 17, 2005 to identify any potential subsurface hazards with standard markings for buried utility lines or subsurface structures. Overhead clearance was also checked to avoid potential overhead hazards and surface electrical lines.

ZACCOR established and maintained an exclusion zone around the tank site and prepared a bermed, lined and protected stockpile area adjacent to the tank location. The stockpile capacity was sufficient to contain the estimated fill around the tank and approximately 50% excess if additional excavation were required.

#### 3.3 TANK PREPARATION

ZACCOR exposed the upper end of the tank with a small excavator on the morning of October 19, 2005 and placed the overburden soils on the prepared stockpile pad on the south side of the planned excavation. Fluids were suctioned from the tank by an Ecology Control Industries (ECI) vacuum truck. The USTs measured 7 feet 8 inches in diameter by 32 feet 6 inches in length. Tank capacity was marked as 12,000 gallons on each tank. No fluids remained in the tanks and each tank interior had been repeatedly rinsed with fresh water and suctioned clean.

ZACCOR checked for flammability and oxygen content using a flammable/combustible gas analyzer and oxygen meter. The tank was rendered inert using 20 pounds of dry ice at 11 a.m. and monitored for two hours. Mr. Rob Weston of Alameda County DEH and Mr. Kenneth Jeffery of AFD arrived to witness the tank removal at 1:00 p.m. They observed measured lower explosive limit (LEL) readings at 0 and oxygen (O<sub>2</sub>) readings at 5.5% for each tank at 2:10 p.m.. Because both measurements were below explosive range the ACDEH approved the removal of the UST.

#### 3.4 TANK EXTRACTION

The remaining fill and approximately two feet of soil around the sides of the UST were excavated at 2:10 p.m. on October 18<sup>th</sup> and placed in the stockpile area. The LEL and O<sub>2</sub> levels were measured again and found to be safe when the UST was completely exposed. A fabric sling was placed around the diesel tank and the excavator removed the tank from the pit at 2.20 p m. The same operation was repeated for the gasoline tank at 2:50 p.m. Both tanks were scrapped clean, washed and inspected. Each tank appeared to be in very good condition with no evidence of rust, corrosion, holes, dents, split seams or obvious leaks. The tanks were placed on flatbed trucks for transport and disposal to ECI in Richmond, California for destruction (State Manifest Document Number CAL-00018233628589). Approximately 10 feet of piping was also removed from the

excavation, cleaned and placed into the UST for scrap. Copies of Manifests and the Certificate of Destruction are included in Appendix D.

#### 4 SAMPLING AND ANALYSIS

Based on TriRegional Board recommendations (RWQCB, 1990), GEOLOGICA collected 4 soil samples excavated approximately 2 feet into native soil at the bottom part of the tank pit sidewalls. Soil was collected from a small excavator bucket from the central part of the excavated soil mass and the samples were free of any accidental debris or surface plant matter. A series of two soil samples were also collected from the 100 yd³ (approximate) stockpile volume of excavation spoils for laboratory compositing and analysis. An additional soil sample was collected from the pipe trench connecting ventilation piping to the tanks and from a supply pump adjacent to a building southeast of the tank pit (Figure 2). Soil samples were collected in glass containers supplied by the analytical laboratory and in metal sleeves driven into the soil mass within the excavator bucket.

Water filling the bottom foot of the excavation pit was also sampled using a clean decontaminated disposable bailer. Water samples were collected in glass VOA vials for volatile constituents, amber Liter bottles for diesel and motor oil analyses and 250 ml plastic bottles for metals analyses

Samples were sealed, placed in cooler at 4°C and delivered to Sequoia Analytical a California EPA certified Analytical Laboratory for analysis according to EPA certified protocols under the laboratory's Quality Assurance Plan.

#### 4.1 ANALYTICAL RESULTS

To comply with ACDEH requirements for verification samples, all of the soil samples and the water sample were analyzed for:

- Total Petroleum Hydrocarbons (TPH) as gas (TPH-g), diesel (TPH-d) by EPA Method 8015M.
- Volatile Organic Compounds (VOCs) including benzene, toluene, ethylbenzene, xylenes (BTEX)
- EDB and EDC by EPA Method 8260.
- Fuel oxygenates (MTBE, TAME, ETBE, DIPE, TBA and EtOH) by EPA Method 8260.
- Total Pb by EPA Method 6010

Low levels of hydrocarbons were detected in the soil samples from three corners of the Grand Marina tank excavation (T-1, 2 and 3) and elevated hydrocarbons levels were detected in samples from the northwest corner of the excavation (T-4) (Figure 2). Gasoline range hydrocarbons (TPHg) ranged from a low of 410 mg/kg in sample T-1 to high of 8500 mg/kg in sample T-4 (Table 1). Diesel range hydrocarbons (TPHd) were detected at levels ranging from 3.6 mg/kg in sample T-3 to 2800 mg/kg in sample T-4. Motor oil (TPHmo) hydrocarbons were not analyzed because the tanks were used exclusively for motor fuels. No other organic compounds (VOCs, SVOCs) were detected in any of the soil samples above reporting limits (Table 1).

Analyses from stockpiled pit soils were low in hydrocarbons and lead (Tables 1 and 2). Diesel range hydrocarbons were the only organic constituents detected and TPHd levels ranged from 4.5 - 5.1 mg/kg.

Inorganic constituents were uniformly low in the tank soils (Table 2). Detected concentrations of lead ranged between 3.8 and 43 mg/kg. Higher lead concentrations of 97 mg/kg were detected in the supply trench (Supply trench-1) that contained tank piping and at 520 mg/kg in a soil sample excavated from 3 feet beneath a metal containment pan at the Pump House east of the UST site (Pump-1 in Table 2). The analytical result for the Pump House soils exceed screening levels (10X STLC) under California Designated Level Methodology. Lead levels in stockpile soils ranged from 5.1 - 7.4 mg/kg, significantly below screening levels (10X STLC).

#### 4.2 ADDITIONAL EXCAVATION

Based on the relatively elevated TPH levels, additional soil was excavated from the northwestern wall of the tank pit (Figure 2) removing potentially contaminated soils and fill material. Two verification samples (OEx-1 and OEx-2; Table 1) were collected from the pit wall and analyzed for the same analytical suite to comply with ACDHS requirements. The TPH levels ranged from 370 to 450 mg/kg TPHg and 7.8 to 200 mg/kg TPHd uniformly lower than the previous analyses of the tank pit wall soils. Detected concentrations of lead in the pit overexcavation soils were also lower ranging between 5.3 and 12 mg/kg (Table 2).

Additional soils were also excavated around the pump station and a verification sample was collected from a depth of ~ 4 feet in the pit. Analysis for organic constituents were uniformly low (Table 1) while lead analysis detected 390 mg/kg in the over excavation sample (Table 2)

#### 4.3 QUALITY ASSURANCE AND QUALITY CONTROL

The quality of the analytical data is sufficient for the intended use. Quality control data provided by the laboratory indicated quality control sample analyses (matrix spikes, matrix spike

duplicates and surrogates) performed on sample matrix were within acceptable ranges for metals, diesel and gasoline and BTEX analyses. Internal laboratory consistency checks indicate VOC analysis was adequate and that that there are no VOCs detected above reporting limits in the samples collected for this project.

#### 5 SITE CLOSURE

Mr. Weston reviewed and approved the analytical results and authorized filling the tank excavation by e-mail on November 9, 2005 (Appendix C). The pit was backfilled on November 10, 2005 with a combination of stockpiled excavation the soils and clean soil adjacent to the Marina facility. The backfill was placed in three separate lifts each compacted with the excavator bucket or a hand-held vibrator. The excavation area was be graded to match the perimeter ground level and paved to allow continued Marina access.

#### 6 CONCLUSION AND RECOMMENDATIONS

There were no apparent UST leaks and the identified hydrocarbon impacts were limited in one corner of the tank excavation. Analytical results substantiate that the additional excavation within the tank pit successfully removed the impacted soils and that potential impacts were limited to supply lines or older utility lines near the tank. Stockpiled soils were used in part to fill the tank pit because very low levels of hydrocarbons were detected in stockpile samples. Lead levels were uniformly low in the pit wall samples and stockpiled soils. Elevated levels of lead persist after overexcavation beneath the Pump House containment pan and represent a continuing concern.

#### 6.1 HYDROCARBON RECOMMENDATIONS

The Grand Marina site has a long history of industrial use and previously documented impacts related to petroleum storage or the use of petroleum products onsite (Section 2). Earlier site characterization determined the nature and extent of petroleum hydrocarbon contamination (HLA, 1987; Zaccor, 1992) and remediation in 1987 removed approximately 285 tons of contaminated soils excavated to depths or 5 feet below ground surface (bgs) beneath the former tank farm in the central part of the site. Another 9 yd<sup>3</sup> of impacted soil from the tank farm was removed in 1990 (SECOR, 1996). Quarterly monitoring of the site continued from 1994 to 1996 (Appendix F) documenting a steady decline in hydrocarbon levels in groundwater.

Subsequent work included an ASTM Phase I Environmental Site Assessment (Lowney and Associates 2004a) and installation of another 12 borings to evaluate the potential redevelopment of the southeastern part of the site (Figure 3). The first investigation phase (Lowney Associates, 2004 b: Appendix F) identified 48 mg/kg TPHg, 9000 mg/kg TPHd and 23,000 TPHmo at 7 feet

bgs approximately 60 feet west of the 12, 000 gallon USTs that are the subject of this closure report (GWS-1 in Figure 3). A subsequent boring (GWS-11 in Figure 3) did not identify any impacts immediately adjacent to the tanks (Figure 3). Based on all of the current and historical investigation data, the impacts related to the older aboveground storage tanks that comprised the tank farm in the central part of the property were relatively shallow and the deeper impacts identified in later studies were limited in area and are not widely dispersed across the site nor directly related to the USTs removed during this remediation effort.

A previous risk assessment for the property evaluated that the potential exposure risk for TPHd was acceptable for the commercial development (Seccor, 1996). Using maximum detected concentrations of 1400 mg/kg TPHd hydrocarbons and exposure scenarios for polyaromatic hydrocarbons (PAH) with benzo (a) pyrene as an indicator compound, the calculated risks for residual TPHd remaining in the soils were acceptable for commercial development of the Grand Marina property.

No further action is recommended for the hydrocarbons remaining in the tank pit based on:

- Low contamination volume Previous investigations and over excavation of the tank pit indicate that any residual hydrocarbon impacts are limited in vertical and lateral extent and do not represent a large volume of high hydrocarbon concentrations. Elevated hydrocarbon levels identified in earlier investigations were relatively deep (7 feet) and did not pose a direct threat of exposure (Lowney Assoc, 2004b, 2005) Detections of 8500 mg/kg TPHg and 2800 mg/kg TPHd in the current tank excavation were limited to small volumes of soil around supply piping or old shallow utility piping in the northwest part of the tank pit. Additional excavation successfully removed the impacted soils and the remnant concentrations of 450 mg/kg TPHg and 200 mg/kg TPHd are more than an order of magnitude less than original hydrocarbon concentrations. Previous drilling evidence indicates that hydrocarbon contamination is not widespread or does not extend beyond limited occurrences such as the utility piping near the USTs.
- No volatile components Analyses did not detect BTEX or fuel oxygenates that are commonly the most mobile components of hydrocarbon plumes. The VOCs that usually represent the greatest environmental risk are absent in the tank pit.
- Groundwater Impacts Analyses of pit water documented elevated levels of diesel and trace amounts of toluene and ethylbenzene at levels less than EPA Preliminary Remediation Goals (PRGs) (Table 3). Low levels of MTBE were also detected but may have been related to the original hydrocarbon contamination at the site. The overexcavation within the tank pit successfully reduced the potential source of

hydrocarbon in groundwater and analyses document that VOCs that might impact groundwater were absent in the pit soils. Groundwater quality adjacent to the Oakland Estuary and is generally poor because of brackish water incursion from the Bay. Groundwater is generally not potable and there are no projected plans for groundwater development and no planned uses for local groundwater therefore, groundwater does not represent a significant exposure pathway in the area.

• No Additional Risk - Concentrations of 200 mg/kg TPHd remaining in the tank pit soil are less than the accepted risk level of 1400 mg/kg TPHd established for the site (Seccor, 1996). The analytical data document that remediation successfully reduced soil impacts related to this tank removal and that the residual hydrocarbons do not represent a net addition of higher hydrocarbon concentrations nor do they add incrementally to the projected risk to human health.

Consequently, we do not propose soil borings or further monitoring to establish the immobility of hydrocarbons or the decline of the limited identified impacts related to the remediation of the two USTs. The detected levels of hydrocarbons do not represent a larger areal impact or higher concentrations of hydrocarbons than have already been accepted as an insubstantial risk to human health in an area where groundwater is generally not used and exposure scenarios do not indicate a significant incremental additional risk.

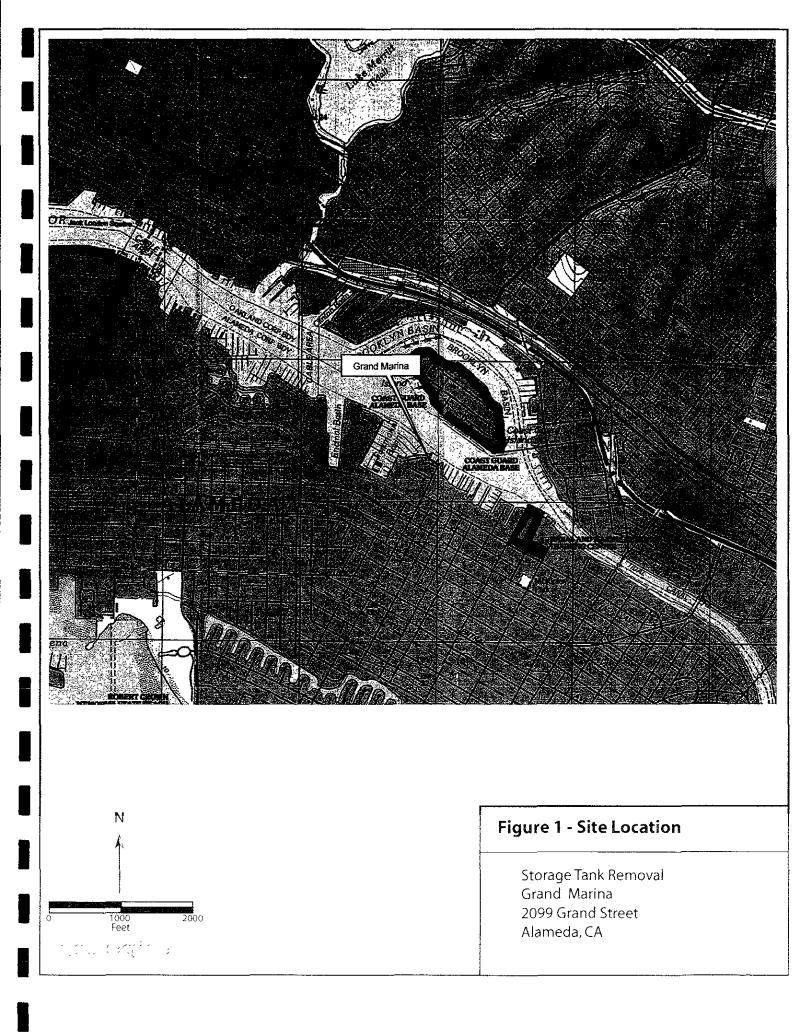
#### 6.2 LEAD RECOMMENDATIONS

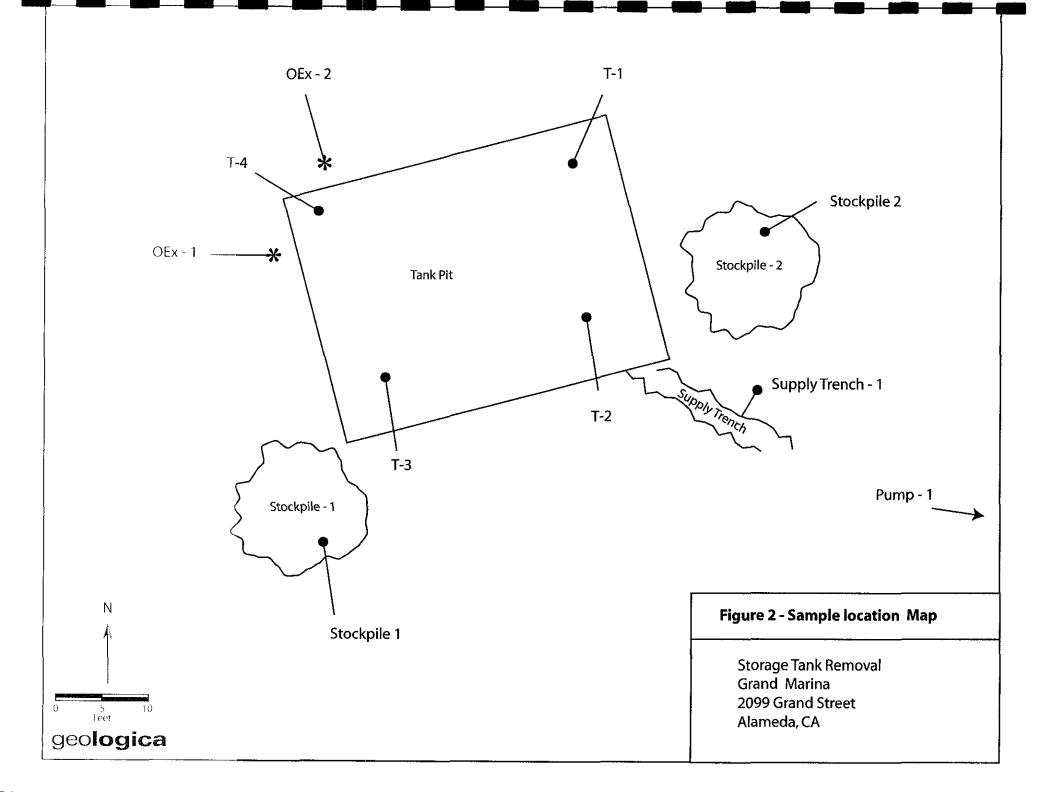
The soil lead levels identified at the former pump site are slightly below PRGs for residential sties but still represent some residual contamination. We recommend a series of three geoprobe borings around the area to a depth of six feet and soil samples collected every two feet to establish the nature and extent of the lead impacts. Based on lead analyses of those samples, an additional volume of soil will be removed to remediate any potential lead impacts. Permits for the borings will be submitted to Alameda County after acceptance of this closure report.

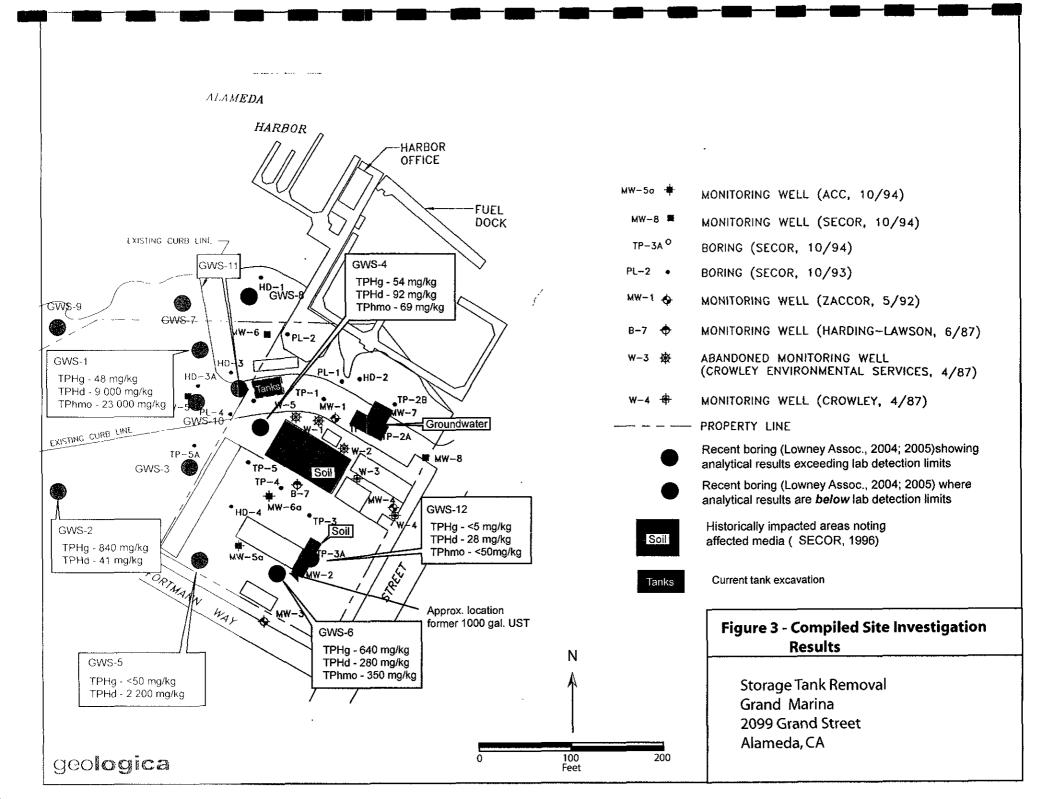
#### 7 REFERENCES

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- Lowney Associates, 2005, Additional Soil and Groundwater Quality Evaluation, Grand Marina Village, Alameda, California. January 11, 2005.
- RWQCB, 1990, Tri-Regional Board Staff Recommendations for Preliminary Investigations and Evaluation of Underground Tank Sites. State of California, 22pgs.
- Seccor Environmental, 1993, Phase II Environmental Site Investigation and Data Review, Grand Marina, Alameda, California. October 1993.
- Seccor Environmental, 1995, Additional Subsurface Investigation Report, Grand Marina. May 12, 1995.
- Seccor Environmental, 1996, Risk Assessment Report for the Grand Street and Fortmann Way Property, Alameda, California. June 26, 1996.

### **FIGURES**







## **TABLES**

Table 1. Grand Street Marina Underground Storage Tank Analytical Results for Soil Organic Constituents

Concentrations in mg/kg

	EP/	4 Method 8015	M/B			EPA Method 8260	)	
Depth (ft)	TPH-gasoline	TPH-diesel	TPH-motor oil	Benzene	Toluene	Ethylbenzene	Xylenes	Oxygenates <sup>a</sup>
						· · ·		
10	410	4.1	NA	ND	ND	ND	ND	ND
10	1800	120		ND	ND	ND	ND	ND
10	ND	3.6		ND	ND	ND	ND	ND
10	8500	2800		ND	ND	ND	ND	ND
3	ND	65		ND	ND	ND	ND	ND
3	ND	460		ND	ND	ND	ND	ND
2' into interior	ND	4.5		ND	ND	ND	ND	ND
2' into interior	ND	5.1	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	ND	ND	ND	ND	ND
10	450	7.8	NA	ND	ND	ND	ND	ND
10	370	200	İ	ND	ND	ND	ND	ND
4	מא	9.6		ND	ND	ND	ND	ND
			Ì	ĺ				
				ļ				
	10 10 10 3 3 3 2' into interior 2' into interior	Depth (ft) TPH-gasoline  10 410 10 1800 10 ND 10 8500 3 ND 3 ND 2' into interior ND 2' into interior ND 10 450 10 370	Depth (ft)         TPH-gasoline         TPH-diesel           10         410         4.1           10         1800         120           10         ND         3.6           10         8500         2800           3         ND         65           ND         460           2' into interior         ND         4.5           2' into interior         ND         5.1           10         450         7.8           10         370         200	10	Depth (ft)   TPH-gasoline   TPH-diesel   TPH-motor oil   Benzene	Depth (ft)   TPH-gasoline   TPH-diesel   TPH-motor oil   Benzene   Toluene	Depth (ft)   TPH-gasoline   TPH-diesel   TPH-motor oil   Benzene   Toluene   Ethylbenzene	Depth (ft)         TPH-gasoline         TPH-diesel         TPH-motor oil         Benzene         Toluene         Ethylbenzene         Xylenes           10         410         4.1         NA         ND         ND         ND         ND           10         1800         120         ND         ND         ND         ND         ND           10         ND         3.6         ND         ND         ND         ND         ND           10         8500         2800         ND         ND         ND         ND         ND           3         ND         65         ND         ND         ND         ND         ND           2' into interior         ND         4.5         ND         ND         ND         ND           2' into interior         ND         5.1         ND         ND         ND         ND           10         450         7.8         NA         ND         ND         ND         ND           10         370         200         ND         ND         ND         ND         ND

NOTES: \* -Not Applicable TPH - Total Petroleum Hydrocarbons

ND- Not detected Oxygenates - MTBE, TAME, TBA, DiPE, TBA, EtOH as noted

NA - Not analyzed

Table 2. Grand Marina Underground Storage Tank Analytical Results for Soil Inorganic Constituents

#### Concentrations in mg/kg

Sample Designation	Depth (ft)	Pb
Excacvation Samples		
T-1	10	4.1
T-2	10	14
T-3	10	3.8
T-4	10	33
Supply Trench -1	3	97
Pump - 1	3	520
Stockpiles		
Stockpile-1	2' into interior	5.1
Stockpile-2	2' into interior	7.4
Excavation water		
Water - 1		2
Over excavation samples		
Oex-1	10	12
Oex-2	10	5.3
Oex-3	2	390
PRG (Res) in mg/kg		400
PRG (Ind) in mg/kg		750
10XSTLC in mg/kg		50
TTLC in mg/kg		1000

NOTES: \* -Not Applicable

ND- Not detected

NA - Not analyzed

Total concentrations analyzed by EPA Method 6000\7

#### Table3. Grand Marina Underground Storage Tank Analytical Results for Excavation Water Organic Constituents

Concentrations in µg/L

Dept <b>h (ft)</b>

EPA Method 8015M\B						
TPH-gasoline	TPH-diesel	TPH-motor oil				
		_				
210	5500	NA				
*	*	*				
*	*	*				
*	*	*				
*	*	*				

EPA Method 8260  Volatile fuel constituents Oxygenates							
	voiatile tue	onstituents		Oxyge	nates		
Benzene	Toluene	Ethylbenzene	Xylenes	Ethanol	МТВЕ		
ND	2.4	0.66	4.4	330	18		
7.2	590	1500	1400		*		
2.4	2000	6000	4500		*		
*	*	*	*		*		
*	*	*	*		*		

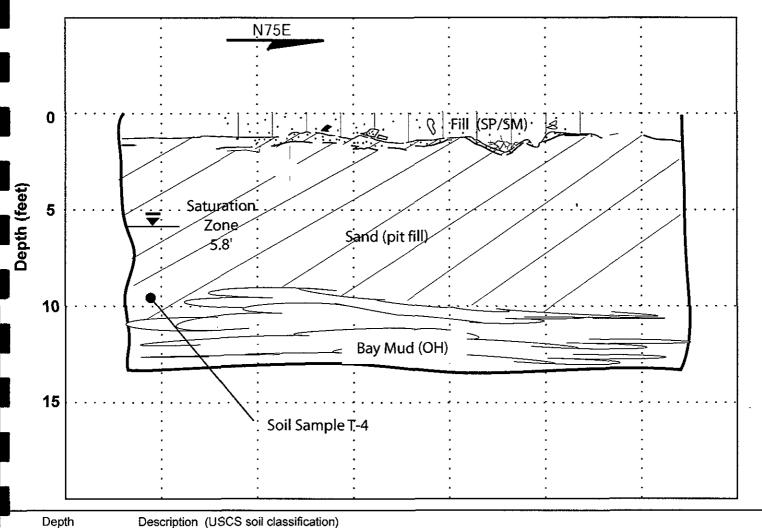
NOTES Not Applicable TPH - Total Petroleum Hydrocarbons

ND Not detected Oxygenates - MTBE, TAME, TBA, DiPE, TBA, EtOH detections noted

NA - Not analyzed SVOC - Semi-volatile organic compounds (C - C)

### **APPENDIX A**

#### UST Removal Excavation Grand Marina Alameda, California



0-1 ft	Imported Fill - mixed gravelly sands (SP) and sand-silt mixture, yellow-brown to grey-brown
	predominantly quartz grains poorly sorted and rounded 1-2mm in size w/ fines <1mm
	and mixed gravel pebbles of quartz and greywacke.

1-8 ft Sand (SW) tank pit fill yellow-olive brown, 1-2mm grains of quartz, well sorted and graded. Petroleum odors at the northwestern pit corner (Sample T-4). Zone of saturation approximately 5.8 feet probably perched above organic rich Bay Mud layer.

8-12 ft Bay Mud - (OH) grey-olive grey, black where plnat matter predominates. Very fine grained well sorted, well graded. Minor intercalations of peat and mixed fossilized plant matter w/minor to trace amounts of shells..

geo <b>iogica</b>	TEST PIT / TRENCH LOG
Project <sup>*</sup> Tank Excavation and Remediation	Date. 10/18/05
Location <sup>-</sup> Grand Marina, Alameda, CA	Logged by: GS

### **APPENDIX B**



885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

28 October, 2005

Gene Suemnicht Geologica Inc [Sn Fsco] 594 Howard St. suite 400 San Francisco, CA 94105

RE: Zaccor:002

Work Order: MOJ1184

Enclosed are the results of analyses for samples received by the laboratory on 10/22/05 08:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Douglas Clark For Tim Costello

Doughs Clark

Lab Manager

CA ELAP Certificate #1210





Geologica Inc [Sn Fsco]Project:Zaccor:002MOJ1184594 Howard St. suite 400Project Number:Grand St. MarinaReported:San Francisco CA, 94105Project Manager:Gene Suemnicht10/28/05 17:17

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
T-1	MOJ1184-01	Soil	10/20/05 15:00	10/22/05 08:30
T-2	MOJ1184-02	Soil	10/20/05 15:05	10/22/05 08:30
T-3	MOJ1184-03	Soil	10/20/05 15:10	10/22/05 08:30
T-4	MOJ1184-04	Soil	10/20/05 15:15	10/22/05 08:30
Pump-1	MOJ1184-05	Soil	10/20/05 15:35	10/22/05 08:30
Water-1	MOJ1184-06	Water	10/20/05 15:45	10/22/05 08:30
Stockpile -1	MOJ1184-07	Soil	10/20/05 16:00	10/22/05 08:30
Stockpile -2	MOJ1184-08	Soil	10/20/05 16:10	10/22/05 08:30
Supply Trench-1	MOJ1184-09	Soil	10/20/05 16:20	10/22/05 08:30





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

### METALS Del Mar Analytical, Irvine

			<u> </u>						
Analyte	Resul	Reporting t Limi	•	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (MOJ1184-01) Soil	Sampled: 10/20/05 15:00	Received: 10/	22/05 08:30	)					
Lead	4.1	2.0	) mg/kg	1	5 <b>J2</b> 5103	10/25/05	10/27/05 13:54	EPA 6010B	
T-2 (MOJ1184-02) Soil	Sampled: 10/20/05 15:05	Received: 10/	22/05 08:30	)					
Lead	14	2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:00	EPA 6010B	
T-3 (MOJ1184-03) Soil	Sampled: 10/20/05 15:10	Received: 10/	22/05 08:30	)					
Lead	3.5	3 2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:05	EPA 6010B	
T-4 (MOJ1184-04) Soil	Sampled: 10/20/05 15:15	Received: 10/	22/05 08:30	)					
Lead	33	3 2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:11	EPA 6010B	
Pump-1 (MOJ1184-05)	Soil Sampled: 10/20/05 15	:35 Received	: 10/22/05	08:30					
Lead	520	2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:26	EPA 6010B	
Water-1 (MOJ1184-06)	Water Sampled: 10/20/05	15:45 Receiv	ved: 10/22/	05 08:30					
Lead	2.0	0.050	) mg/l	10	5J25081	10/25/05	10/27/05 11:44	EPA 6010B	
Stockpile -1 (MOJ1184-	07) Soil Sampled: 10/20/0	5 16:00 Rece	ived: 10/22	/05 08:30					
Lead	5.	l 2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:32	EPA 6010B	
Stockpile -2 (MOJ1184-	08) Soil Sampled: 10/20/0	5 16:10 Rece	ived: 10/22	/05 08:30					
Lead	7	4 2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14.37	EPA 6010B	
Supply Trench-1 (MOJ)	1184-09) Soil Sampled: 10	/20/05 16:20	Received:	10/22/05 0	8:30				
Lead	9'	7 2.0	) mg/kg	1	5J25103	10/25/05	10/27/05 14:43	EPA 6010B	





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

#### Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

			·						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (MOJ1184-01) Soil Sampled: 10/20/0	05 15:00 Rec	eived: 10/22	/05 08:30						
Gasoline Range Organics (C4-C12)	410	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		102 %	35-1	30	"	"	#	n	
T-2 (MOJ1184-02) Soil Sampled: 10/20/0	05 15:05 Rec	eived: 10/22	/05 08:30						
Gasoline Range Organics (C4-C12)	1800	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		142 %	35-1	30	"	"	"	Ħ	S04
T-3 (MOJ1184-03) Soil Sampled: 10/20/0	05 15:10 Rec	eived: 10/22	/05 08:30						
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		101 %	35-1	30	"	rt	н	n	
T-4 (MOJ1184-04) Soil Sampled: 10/20/	05 15:15 Rec	eived: 10/22	/05 08:30						
Gasoline Range Organics (C4-C12)	8500	500	ug/kg	5	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		142 %	35-1	30	"	n	"	н	S04
Pump-1 (MOJ1184-05) Soil Sampled: 10	)/20/05 15:35	Received: 1	10/22/05 0	8:30					
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	5 <b>J</b> 25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	·	72 %	35-1	130	#	"	"	rt .	
Water-1 (MOJ1184-06) Water Sampled	: 10/20/05 15:	45 Receive	d: 10/22/0	5 08:30					
Gasoline Range Organics (C4-C12)	210	100	ug/l	2	5J26005	10/26/05	10/26/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		101 %	80	120	"	n	,,	"	
Stockpile -1 (MOJ1184-07) Soil Sample	d: 10/20/05 16	:00 Receiv	ed: 10/22/	05 08:30					
Gasoline Range Organics (C4-C12)	150	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	<u>.</u>
Surrogate: 4-Bromofluorobenzene		94 %	35	130	п	n	"	"	





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

#### Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile -2 (MOJ1184-08) Soil Samp	oled: 10/20/05 16:10	Receive	ed: 10/22/0	5 08:30				<del></del>	
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		84 %	35-13	30	"	я	"	· ·	
Supply Trench-1 (MOJ1184-09) Soil	Sampled: 10/20/05	16:20 Re	eceived: 10	/22/05 08	3:30				
Gasoline Range Organics (C4-C12)	ND	100	ug/kg	1	5J25025	10/25/05	10/25/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene		84 %	35-1.	30	п	"	п	"	





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

#### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
T-1 (MOJ1184-01) Soil Sampled: 10/20/	05 15:00 Rec	eived: 10/22	/05 08:30						
Diesel Range Organics (C10-C28)	4.1	1.0	mg/kg	1	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		82 %	30-	159	н	"	н	n	
T-2 (MOJ1184-02) Soil Sampled: 10/20/	05 15:05 Rec	eived: 10/22	/05 08:30	•					
Diesel Range Organics (C10-C28)	120	5.0	mg/kg	5	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-17
Surrogate: n-Octacosane		106 %	30-	159	#	n	n	tt	
T-3 (MOJ1184-03) Soil Sampled: 10/20/	05 15:10 Rec	eived: 10/22	/05 08:30	)					
Diesel Range Organics (C10-C28)	3.6	1.0	mg/kg	1	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		89 %	30-	159	"	n	n	H	
T-4 (MOJ1184-04) Soil Sampled: 10/20/	05 15:15 Rec	eived: 10/22	2/05 08:30	)					
Diesel Range Organics (C10-C28)	2800	100	mg/kg	100	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-17
Surrogate: n-Octacosane		%	30-	159	"	rr	"	n	S08
Pump-1 (MOJ1184-05) Soil Sampled: 10	0/20/05 15:35	Received:	10/22/05 (	8:30					
Diesel Range Organics (C10-C28)	460	50	mg/kg	20	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		2130 %	30-	159	"	"	"	"	S09
Water-1 (MOJ1184-06) Water Sampled	: 10/20/05 15:	45 Receive	d: 10/22/0	05 08:30					
Diesel Range Organics (C10-C28)	5500	500	ug/l	10	5J25006	10/25/05	10/26/05	EPA 8015B-SVOA	HC-17
Surrogate: n-Octacosane		107 %	34-	123	"	n	"	H	
Stockpile -1 (MOJ1184-07) Soil Sample	d: 10/20/05 16	:00 Receive	ed: 10/22	05 08:30					
Diesel Range Organics (C10-C28)	5.1	1.0	mg/kg	1	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		99 %	30-	159	"	н	11	"	





Geologica Inc [Sn Fsco] Project:Zaccor:002
594 Howard St. suite 400 Project Number:Grand St. Marina
San Francisco CA, 94105 Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

#### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Stockpile -2 (MOJ1184-08) Soil S	Sampled: 10/20/05 16:10	Receive	ed: 10/22/0	5 08:30					
Diesel Range Organics (C10-C28)	4.5	1.0	mg/kg	1	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		88 %	30-1	59	"	"	n	"	
Supply Trench-1 (MOJ1184-09) Se	oil Sampled: 10/20/05 1	6:20 R	eceived: 1	0/22/05 08	3:30				
Diesel Range Organics (C10-C28)	65	10	mg/kg	10	5J24003	10/24/05	10/25/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		374 %	30-1	59	н	н	rt	Ħ	S04





Geologica Inc [Sn Fsco] Project:Zaccor:002 MOJ1184
594 Howard St. suite 400 Project Number:Grand St. Marina Reported:
San Francisco CA, 94105 Project Manager:Gene Suemnicht 10/28/05 17:17

#### BTEX by EPA Method 8260B Sequoia Analytical - Morgan Hill

	Seque		-J						
Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Water-1 (MOJ1184-06) Water	Sampled: 10/20/05 15:45	Received	1: 10/22/	05 08:30					
Benzene	ND	0.50	ug/l	1	5J28009	10/28/05	10/28/05	EPA 8260B	
Ethylbenzene	0.66	0.50	11	Ħ	n	**	n	R	
Toluene	2.4	0.50	II.	**	II	99	It	"	
Xylenes (total)	4.4	0.50	**	11	"	11			•••
Surrogate: 1.2-Dichloroethane-d	4	91%	60-	-135	"	#	n	п	





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
T-1 (MOJ1184-01) Soil Sampled: 10/2	0/05 15:00 R	eceived: 10/22	/05 08:30	1					
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/26/05	EPA 8260B	
Ethylbenzene	ND	5.0	**	**	H.	19	**	11	
Toluene	ND	5.0	11	10	17	19	"	1)	
Xylenes (total)	ND	5.0	11	11	11	11	11	п	
Surrogate: Dibromofluoromethane		92 %	55-	125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		91 %	60-	125	"	"	"	"	
Surrogate: Toluene-d8		98 %	65-	130	н	"	Ħ	"	
tert-Amyl methyl ether	ND	5.0	H	IF	n	Ħ	17	#	
tert-Butyl alcohol	ND	20	"	IF	n	**	#1	11	
Di-isopropyl ether	ND	5.0	Ħ	n	"	**	**	11	
1,2-Dibromoethane (EDB)	ND	5.0	**	tr	**	11	**	11	
1,2-Dichloroethane	ND	5.0	**	**	#	11	"	II .	
Ethanol	ND	100	**	**	11	11	11	n	
Ethyl tert-butyl ether	ND	5.0	**	**	11	11	11	u	
Methyl tert-butyl ether	ND	5.0	**	**	11	11	11	n	
Surrogate: 1,2-Dichloroethane-d4		91 %	60-	125	"	"	"	"	
T-2 (MOJ1184-02) Soil Sampled: 10/2	20/05 15:05 R	eceived: 10/22	/05 08:30	•					
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/26/05	EPA 8260B	
Ethylbenzene	ND	5.0	11	11	11	п	tr	n	
Toluene	ND	5.0	11	ti	n	et	Ħ	Ħ	
Xylenes (total)	ND	5.0	11	1)	n	tt	IF	"	
Surrogate: Dibromofluoromethane		93 %	55-	125	n	"	n	"	
Surrogate: 1,2-Dichloroethane-d4		88 %	60-	125	n	n	n	"	
Surrogate: Toluene-d8		97 %	65-	130	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	11	II	rr	11	e	11	
tert-Butyl alcohol	ND	20	11	n	"	**	tt	II .	
Di-isopropyl ether	ND	5.0	11	11	*r	11	\$1	11	
1,2-Dibromoethane (EDB)	ND	5.0	II.	II.	**	"	**	п	
1,2-Dichloroethane	ND	5.0	n	II	**	11	n	u	
Ethanol	ND	100	it.	n	**	11	19	ū	
Ethyl tert-butyl ether	ND	5.0	n	n	**	11	11	n	
Methyl tert-butyl ether	ND	5.0	n	H	**	11	11	**	
Surrogate: 1 2-Dichlorocthane-d4		88 %,	50-	125	"	"	n	"	





Geologica Inc [Sn Fsco] Project:Zaccor:002
594 Howard St. suite 400 Project Number:Grand St. Marina
San Francisco CA, 94105 Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Not
T-3 (MOJ1184-03) Soil Sampled: 10/2	0/05 15:10 Rec	eived: 10/22	/05 08:30						
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/26/05	EPA 8260B	
Ethylbenzene	ND	5.0	U	"	"	"	**	11	
Toluene	ND	5.0	n	tt	11	"	**	11	
Xylenes (total)	ND	5.0	tt	Ħ	11	*	11	II	
Surrogate: Dibromofluoromethane		78 %	55-	125	n	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		77 %	60-	125	и	"	"	n	
Surrogate: Toluene-d8		106 %	65-	130	"	"	"	"	
tert-Amyl methyl ether	ND	5.0	11	п	+r	n	u ·	II .	
tert-Butyl alcohol	ND	20	11	íı	11	**	"	II .	
Di-isopropyl ether	ND	5.0	II .	a	11	"	**	II.	
1,2-Dibromoethane (EDB)	ND	5.0	fr	**	11	19	11	u	
1,2-Dichloroethane	ND	5.0	**	**	п	11	11	æ	
Ethanol	ND	100	**	4	11	11	11	**	
Ethyl tert-butyl ether	ND	5.0	**	Ħ	п	11	11	**	
Methyl tert-butyl ether	ND	5.0	10	19	II	II	11		
Surrogate: 1,2-Dichloroethane-d4		77 %	60-	125	n	"	"	"	
T-4 (MOJ1184-04) Soil Sampled: 10/2	0/05 15:15 Rec	eived: 10/22	/05 08:30	ı					
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/27/05	EPA 8260B	
Ethylbenzene	ND	5.0	n	n	"	**	"	n	
Toluene	ND	5.0	u	Ħ	"	11	11	u	
Xylenes (total)	ND	5.0	u	**	11	11	11		
Surrogate: Dibromofluoromethane		90 %	55-	125	Ħ	"	"	#	
Surrogate: 1,2-Dichloroethane-d4		86 %	60-	125	#	"	"	"	
Surrogate: Toluene-d8		95 %	65-	130	"	"	"	н	
tert-Amyl methyl ether	ND	5.0	77	19	11	II	tt	11	
tert-Butyl alcohol	ND	20	11	11	#	11	**	11	
Di-isopropyl ether	ND	5.0	11	11	**	Ħ	**	11	
1,2-Dibromoethane (EDB)	ND	5.0	19	11	#	IT	**	11	
1,2-Dichloroethane	ND	5.0	11	n	n	"	19	п	
Ethanol	ND	100	11	u	11	11	11	(t	
Ethyl tert-butyl ether	ND	5.0	п	н	n	11	11	rr rr	
Methyl tert-butyl ether	ND	5.0	ır	н	11	n	11		
Surrogate: 1 2-Dichloroethane-d4		86 %	60	125	"	"	"	,,	





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
	Sampled: 10/20/05 15:35	Received: 1	0/22/05 (	8:30					
Benzene	ND ND	5.0	ug/kg	1	5J26043	10/26/05	10/27/05	EPA 8260B	
Ethylbenzene	ND	5.0	**	tt	"	1)	11	ıı	
Toluene	ND	5.0	tr	n	n	11	W	(l	
Xylenes (total)	ND	5.0	11	*		Ħ	tr	**	
Surrogate: Dibromofluorometh	hane	82 %	55-	125	п	,,	n	#	
Surrogate: 1,2-Dichloroethane	:-d4	74 %	60-	125	"	"	"	<i>H</i>	
Surrogate: Toluene-d8		95 %	65-	130	"	"	"	n	
tert-Amyl methyl ether	ND	5.0	**	Ħ	11	11	n	tt .	
tert-Butyl alcohol	ND	20	11	n	11	n	"	**	
Di-isopropyl ether	ND	5.0	**	"	n	Ħ	**	*	
1,2-Dibromoethane (EDB)	ND	5.0	11	11	ır	#	"	11	
1,2-Dichloroethane	ND	5.0	11	n	Ħ	11	11	11	
Ethanol	ND	100	ш	11	**	11	11	п	
Ethyl tert-butyl ether	ND	5.0	**	п	**	11	п	u	
Methyl tert-butyl ether	ND	5.0	**	rt	11	11	II	tt	
Surrogate: 1,2-Dichloroethane	e-d4	74 %	60-	125	"	Ħ	"	· · ·	
Water-1 (MOJ1184-06) Water		45 Receive	d: 10/22/	05 08:30					
tert-Amyl methyl ether	ND	0.50	ug/l	1	5J28009	10/28/05	10/28/05	EPA 8260B	
tert-Butyl alcohol	ND	20	ıı	11	**	11	11	п	
Di-isopropyl ether	ND	0.50	II	n	Ħ	11	ü	н	
1,2-Dibromoethane (EDB)	ND	0.50	11	II	**	11	ц	tt	
1,2-Dichloroethane	ND	0.50	**	tr	11	n	æ	"	
Ethanol	330	100	**	#	11	"	**	**	
Ethyl tert-butyl ether	ND	0.50	11	11	11	#	"	11	
Methyl tert-butyl ether	18	0.50	19	Ħ	n n	19	19	11	
Surrogate: 1,2-Dichloroethane	e-d4	91 %	60-	-135	"	"	"	n	





Geologica Inc [Sn Fsco] Project:Zaccor:002
594 Howard St. suite 400 Project Number:Grand St. Marina
San Francisco CA, 94105 Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Stockpile -1 (MOJ1184-07) Soil	Sampled: 10/20/05 16:00	Receive	d: 10/22/	05 08:30					
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/27/05	EPA 8260B	
Ethylbenzene	ND	5.0	11	11	11	11	11	н	
Toluene	ND	5.0	11	It	II .	"	ш	et .	
Xylenes (total)	ND	5.0	**	**	н		ti .	**	
Surrogate: Dibromofluoromethane	?	82 %	55-	125	"	n	n	#	
Surrogate: 1,2-Dichloroethane-d4		79 %	60-	125	"	n	"	н	
Surrogate: Toluene-d8		99%	65-	130	H	n	"	н	
tert-Amyl methyl ether	ND	5.0	11	11	11	н	11	II .	
tert-Butyl alcohol	ND	20	11	n	II	II .	11	II.	
Di-isopropyl ether	ND	5.0	II .	u	IJ	11	11	**	
1,2-Dibromoethane (EDB)	ND	5.0	Ħ	n	fl	tt	н	11	
1,2-Dichloroethane	ND	5.0	rr .	n	n	H	tt	17	
Ethanol	ND	100	"	**	**	"	**	11	
Ethyl tert-butyl ether	ND	5.0	**	**	#	11	**	н	
Methyl tert-butyl ether	ND	5.0	**	11	17	11	<b>1</b> 0	II .	
Surrogate: 1,2-Dichloroethane-d4		79 %	60-	125	Ħ	"	u	n	
Stockpile -2 (MOJ1184-08) Soil	Sampled: 10/20/05 16:10	Receive	ed: 10/22/	05 08:30					
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/27/05	EPA 8260B	
Ethylbenzene	ND	5.0	11	11	U	n	п	n	
Toluene	ND	5.0	11	n	u	H	ii .	n	
Xylenes (total)	ND	5.0	II	"	11	Ħ	II .	11	
Surrogate: Dibromofluoromethane	?	87 %	55-	125	"	"	п	#	
Surrogate: 1,2-Dichloroethane-d4		85 %	60-	125	#	п	п	H	
Surrogate: Toluene-d8		93 %	65-	130	"	n	"	n	
tert-Amyl methyl ether	ND	5.0	**	Ħ	17	11	15	и	
tert-Butyl alcohol	ND	20	11	*	11	1)	11	fr	
Di-isopropyl ether	ND	5.0	**	11	"	n	11	п	
1,2-Dibromoethane (EDB)	ND	5.0	"	"	ıt	U	11	"	
1,2-Dichloroethane	ND	5.0	11	19	11	II	11	**	
Ethanol	ND	100	#	#	11	ш	11	ft	
Ethyl tert-butyl ether	ND	5.0	**	п	n	It	u	19	
Methyl tert-butyl ether	ND	5.0	11	11	"	н	п	11	





Geologica Inc [Sn Fsco]Project:Zaccor:002MOJ1184594 Howard St. suite 400Project Number:Grand St. MarinaReported:San Francisco CA, 94105Project Manager:Gene Suemnicht10/28/05 17:17

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
Supply Trench-1 (MOJ1184-09) Soil	Sampled: 10/20/	05 16:20 R	eceived:	10/22/05 08	8:30				
Benzene	ND	5.0	ug/kg	1	5J26043	10/26/05	10/27/05	EPA 8260B	,
Ethylbenzene	ND	5.0	11	Ħ	n	11	H	п	
Toluene	ND	5.0	11	n	tt	11	**	п	
Xylenes (total)	ND	5.0	10	"	"	0	11	н	
Surrogate: Dibromofluoromethane		<i>78 %</i>	55-	125	"	"	#	"	
Surrogate: 1,2-Dichloroethane-d4		76 %	60-	125	#	n	#	"	
Surrogate: Toluene-d8		93 %	65-	130	"	"	"	"	
tert-Amyl methyl ether	ND	5.0		п	п	**	II	n	
tert-Butyl alcohol	ND	20	,,,	11	11	11	н	D.	
Di-isopropyl ether	ND	5.0	11	tr	n n	11	***	0	
1,2-Dibromoethane (EDB)	ND	5.0	11	**	**	11	"	a	
1,2-Dichloroethane	ND	5.0	10	**	Ħ	п	11	tr .	
Ethanol	ND	100	11	11	Ħ	п	11	tt.	
Ethyl tert-butyl ether	ND	5.0	11	11	11	n	11	n	
Methyl tert-butyl ether	ND	5.0	п	11	11	н	11	#	
Surrogate: 1,2-Dichloroethane-d4		76 %	60-	-125	"	"	"	"	





Geologica Inc [Sn Fsco]Project:Zaccor:002MOJ1184594 Howard St. suite 400Project Number:Grand St. MarinaReported:San Francisco CA, 94105Project Manager:Gene Suemnicht10/28/05 17:17

### METALS - Quality Control Del Mar Analytical, Irvine

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5J25081 - EPA 3005A ICP / I	EPA 6010B									
Blank (5J25081-BLK1)		<del></del>		Prepared:	10/25/05	Analyzed:	10/26/05			
Lead	ND	0.0050	mg/l	<u></u>						
Laboratory Control Sample (5J25081-B	S1)			Prepared:	10/25/05	Analyzed:	10/26/05			
Lead	0.933	0.0050	mg/l	1.00		93	80-120			
Matrix Spike (5J25081-MS1)	Source: IC	J1423-01		Prepared:	10/25/05	Analyzed:	10/26/05			
Lead	0.941	0.0050	mg/l	1.00	0.0036	94	75-125			
Matrix Spike Dup (5J25081-MSD1)	Source: IC	J1423-01		Prepared:	10/25/05	Analyzed:	10/27/05			
Lead	0.968	0.0050	mg/l	1.00	0.0036	96	75-125	3	20	
Batch 5J25103 - EPA 3050B ICP / E	PA 6010B									
Blank (5J25103-BLK1)				Prepared:	10/25/05	Analyzed:	10/27/05			
Lead	ND	2.0	mg/kg	-						
Laboratory Control Sample (5J25103-B	S1)			Prepared:	10/25/05	Analyzed:	10/27/05			
Lead	46.2	2.0	mg/kg	50.0		92	80-120			
Matrix Spike (5J25103-MS1)	Source: IC	J1672-01		Prepared:	10/25/05	Analyzed:	10/27/05			
Lead	55.3	2.0	mg/kg	50.0	12	87	75-125			
Matrix Spike Dup (5J25103-MSD1)	Source: IC	J1672-01		Prepared:	10/25/05	Analyzed:	10/27/05			
Lead	59.4	2.0	mg/kg	50.0	12	95	75-125	7	20	



MOJ1184

Reported:

10/28/05 17:17



Geologica Inc [Sn Fsco] Project:Zaccor:002
594 Howard St. suite 400 Project Number:Grand St. Marina
San Francisco CA, 94105 Project Manager:Gene Suemnicht

#### Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

	Sec	juoia Ana	lytical	l - Morg	an Hill					
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5J25025 - EPA 5030B [P/T] /	EPA 8015B-V	/OA								
Blank (5J25025-BLK1)				Prepared	& Analyz	ed: 10/25/	05			
Gasoline Range Organics (C4-C12)	ND	100	ug/kg							
Surrogate: 4-Bromofluorobenzene	83.9		#	80.0		105	35-130			
Laboratory Control Sample (5J25025-E	SS1)			Prepared	& Analyz	ed: 10/25/	05			
Gasoline Range Organics (C4-C12)	417	100	ug/kg	550		76	55-140			
Surrogate: 4-Bromofluorobenzene	848		n	80.0		106	35-130		-	
Matrix Spike (5J25025-MS1)	Source: M	IOJ1184-03		Prepared	& Analyz	ed: 10/25/	05			
Gasoline Range Organics (C4-C12)	322	100	ug/kg	550	ND	59	55-140		***	
Surrogate: 4-Bromofluorobenzene	80.1		"	80.0		100	35-130	<del></del> -		
Matrix Spike Dup (5J25025-MSD1)	Source: M	OJ1184-03		Prepared	& Analyz	ed: 10/25/	05			
Gasoline Range Organics (C4-C12)	405	100	ug/kg	550	ND	74	55-140	23	20	QC2
Surrogate: 4-Bromofluorobenzene	78.6		Ħ	80.0		98	35-130			
Batch 5J26005 - EPA 5030B [P/T] /	EPA 8015B-V	/OA								
Blank (5J26005-BLK1)				Prepared	& Analyz	ed: 10/26/	05			
Gasoline Range Organics (C4-C12)	ND	50	ug/l							
Surrogate: 4-Bromofluorobenzene	39.8		"	40.0		100	80-120			
Laboratory Control Sample (5J26005-E	S1)			Prepared	& Analyz	ed: 10/26/	05			
Gasoline Range Organics (C4-C12)	249	50	ug/l	275		91	55-130			
Surrogate: 4-Bromofluorobenzene	41.9		"	40.0		105	80-120			
Matrix Spike (5J26005-MS1)	Source: M	IOJ1037-01		Prepared	& Analyz	ed: 10/26/	05			
Gasoline Range Organics (C4-C12)	212	50	ug/l	275	ND	<b>7</b> 7	55-130			
Surrogate: 4-Bromofluorobenzene	41.7		#	40.0		104	80-120	<del></del> -		





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

#### Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	<u> </u>
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

Batch 5J26005 - EPA 5030B [P/T] / EPA 8015B-VOA

Matrix Spike Dup (5J26005-MSD1)	Source: MO.	J1037-01		Prepared	& Analyz	ed: 10/26	05			
Gasoline Range Organics (C4-C12)	214	50	ug/l	275	ND	78	55-130	0.9	35	
Surrogate: 4-Bromofluorobenzene	42.7		"	40.0		107	80-120		·	





Geologica Inc [Sn Fsco] Project:Zaccor:002 MOJ1184
594 Howard St. suite 400 Project Number:Grand St. Marina Reported:
San Francisco CA, 94105 Project Manager:Gene Suemnicht 10/28/05 17:17

## Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

	<b>7</b> 0 k	Reporting	**	Spike	Source	0/DEC	%REC Limits	RPD	RPD Limit	Notes
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	KPD	rimit	140fes
Batch 5J24003 - EPA 3550B / EPA 8	015B-SVOA									
Blank (5J24003-BLK1)				Prepared	& Analyz	ed: 10/24/	05			
Diesel Range Organics (C10-C28)	ND	1.0	mg/kg							
Surrogate: n-Octacosane	1.30		"	1.67		<i>78</i>	30-159			
Laboratory Control Sample (5J24003-B	S1)			Prepared	& Analyz	ed: 10/24/	05			
Diesel Range Organics (C10-C28)	13.7	1.0	mg/kg	16.7		82	54-139			
Surrogate: n-Octacosane	1.42		"	1.67		85	30-159			
Matrix Spike (5J24003-MS1)	Source: M	OJ1146-01		Prepared	& Analyz	ed: 10/24/	05			
Diesel Range Organics (C10-C28)	14.0	1.0	mg/kg	16.7	1.9	72	54-139			
Surrogate: n-Octacosane	1.41		"	1.67		84	30-159			
Matrix Spike Dup (5J24003-MSD1)	Source: M	OJ1146-01		Prepared	& Analyz	ed: 10/24/	05			
Diesel Range Organics (C10-C28)	14.8	1.0	mg/kg	16.7	1.9	77	54-139	6	29	
Surrogate: n-Octacosane	1.44	,	"	1.67		86	30-159			
Batch 5J25006 - EPA 3510C / EPA 8	8015B-SVOA									
Blank (5J25006-BLK1)				Prepared	& Analyz	ed: 10/25/	05			
Diesel Range Organics (C10-C28)	ND	50	ug/l			•				
Surrogate: n-Octacosane	31.4		"	50.0		63	34-123	-		
Laboratory Control Sample (5J25006-B	S1)			Prepared	& Analyz	ed: 10/25/	05			
Diesel Range Organics (C10-C28)	303	50	ug/l	500		61	51-128			
Surrogate: n-Octacosane	32.5		"	50.0		65	34-123			
Laboratory Control Sample Dup (5J250	06-BSD1)			Prepared	& Analyz	ed: 10/25/	05			
Diesel Range Organics (C10-C28)	298	50	ug/l	500		60	51-128	2	27	
Surrogate: n-Octacosane	30.0		"	50.0		60	34-123			





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

## Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source		%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes

#### Batch 5J25006 - EPA 3510C / EPA 8015B-SVOA

Duplicate (5J25006-DUP1)	Source: MOJ	1149-01		Prepared & A	nalyzed: 10/25	/05		
Diesel Range Organics (C10-C28)	ND	48	ug/l	Ì	ND		200	
Surrogate: n-Octacosane	38.3		"	48.1	80	34-123		





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

#### BTEX by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5J28009 - EPA 5030B P/T / EPA 8	3260B									
Blank (5J28009-BLK1)				Prepared	& Analyz	ed: 10/28/	05			
Benzene	ND	0.50	ug/l							
Ethylbenzene	ND	0.50	lt.							
Toluene	ND	0.50	It							
Xylenes (total)	ND	0.50	tt							
Surrogate: 1,2-Dichloroethane-d4	4.30	·	n	5.00		86	60-135			
Laboratory Control Sample (5J28009-BS1)				Prepared	& Analyz	ed: 10/28/	05			
Benzene	5.27	0.50	ug/l	5.16		102	65-115			
Ethylbenzene	6.75	0.50	17	7.54		90	75-135			
Toluene	41.4	0.50	**	37.2		111	85-120			
Xylenes (total)	38.5	0.50	"	41.2		93	85-125			
Surrogate: 1,2-Dichloroethane-d4	4.52		"	5.00		90	60-135			





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

RPD

%REC

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Reporting

Spike

63	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	Limit	Notes
Analyte	Result	Linit	Cints	Level	Result	701020	Limito	10.0		110.00
Batch 5J26043 - EPA 5030B P/T /	EPA 8260B									
Blank (5J26043-BLK1)				Prepared	& Analyze	ed: 10/26/	05			
ert-Amyl methyl ether	ND	5.0	ug/kg							
Benzene	ND	5.0	D							
ert-Butyl alcohol	ND	20	a							
Di-isopropyl ether	ND	5.0	n							
1,2-Dibromoethane (EDB)	ND	5.0	11							
1,2-Dichloroethane	ND	5.0	"							
Ethanol	ND	100	11							
Ethyl tert-butyl ether	ND	5.0	"							
Ethylbenzene	ND	5.0	11							
Methyl tert-butyl ether	ND	5.0	Ħ							
Toluene	ND	5.0	11							
Xylenes (total)	ND	5.0	17							
Surrogate: Dibromofluoromethane	4.54		н	5.00		91	55-125			
Surrogate: 1,2-Dichloroethane-d4	4.42		н	5.00		88	60-125			
Surrogate: 1,2-Dichloroethane-d4	4.42		"	5.00		88	60-125			
Surrogate: Toluene-d8	4.67		n	5.00		93	65-130			
Laboratory Control Sample (5J26043	-BS1)			Prepared	& Analyz	ed: 10/26/	05			
tert-Amyl methyl ether	15.1	5.0	ug/kg	15.0		101	80-130			
Benzene	5.86	5.0	11	5.16		114	65-125			
tert-Butyl alcohol	141	20	11	143		99	80-165			
Di-isopropyl ether	15.3	5.0	ti .	15.1		101	85-115			
1,2-Dibromoethane (EDB)	16.1	5.0	**	14.9		108	85-130			
1,2-Dichloroethane	14.4	5.0	11	14.7		98	63-124			
Ethanol	136	100	п	142		96	35-150			
Ethyl tert-butyl ether	15.2	5.0	**	15.0		101	80-125			
Ethylbenzene	7.83	5.0	**	7.54		104	80-135			
Methyl tert-butyl ether	7.13	5.0	17	7.02		102	75-115			
Toluene	38.5	5.0	11	37.2		103	85-125			
Xylenes (total)	44.0	5.0	11	41.2		107	80-140			
Surrogate: Dibromofluoromethane	4.30		n	5.00		86	55-125	• .		
Surrogate 12-D.chioroethare-d4	3 9.8			5.00		80	60-125			
Surrogate 1 2-Dichloroetrane-d4	3.98		•	5 (11)		*/)	69-125			
Surrogate Totache-d8	4.54		,	5 ()(1		91	65-130			





Project:Zaccor:002 Project Number:Grand St. Marina Project Manager:Gene Suemnicht MOJ1184 Reported: 10/28/05 17:17

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

		Reporting		Spike	Source	4/885	%REC		RPD	
Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5J26043 - EPA 5030B P/T /	EPA 8260B									
Laboratory Control Sample Dup (5J2	6043-BSD1)			Prepared	& Analyz	ed: 10/26/	05			
tert-Amyl methyl ether	15.4	5.0	ug/kg	15.0		103	80-130	2	25	
Benzene	5.84	5.0	IF	5.16		113	65-125	0.3	20	
tert-Butyl alcohol	151	20	n	143		106	80-165	7	25	
Di-isopropyl ether	15.3	5.0	**	15,1		101	85-115	0	20	
1,2-Dibromoethane (EDB)	16.2	5.0	11	14.9		109	85-130	0.6	15	
1,2-Dichloroethane	16.0	5.0	11	14.7		109	63-124	11	25	
Ethanol	153	100	11	142		108	35-150	12	40	
Ethyl tert-butyl ether	15.3	5.0	11	15.0		102	80-125	0.7	25	
Ethylbenzene	7.85	5.0	11	7.54		104	80-135	0.3	20	
Methyl tert-butyl ether	7.40	5.0	11	7.02		105	75-115	4	35	
Toluene	39.5	5.0	п	37.2		106	85-125	3	15	
Xylenes (total)	44.0	5.0	n	41.2		107	80-140	0	20	
Surrogate: Dibromofluoromethane	4.53		"	5.00		91	55-125			
Surrogate · 1,2-Dichloroethane-d4	4.46		#	5.00		89	60-125			
Surrogate: 1,2-Dichloroethane-d4	4.46		n	5.00		89	60-125			
Surrogate: Toluene-d8	4.69		17	5.00		94	65-130			
Batch 5J28009 - EPA 5030B P/T /	EPA 8260B									
Blank (5J28009-BLK1)				Prepared	& Analyz	ed: 10/28/	05			
tert-Amyl methyl ether	ND	0.50	ug/l	_						
tert-Butyl alcohol	ND	20	**							
Di-isopropyl ether	ND	0.50	16							
1,2-Dibromoethane (EDB)	ND	0.50	10							
1,2-Dichloroethane	ND	0.50	U							
Ethanol	ND	100	11							
Ethyl tert-butyl ether	ND	0.50	11							
Methyl tert-butyl ether	ND	0.50	***							
Surrogate: 1,2-Dichloroethane-d4	4.30		"	5.00		86	60-135			





Project:Zaccor:002 Project Number: Grand St. Marina Project Manager:Gene Suemnicht

MOJ1184 Reported: 10/28/05 17:17

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5J28009 - EPA 5030B P/T / EPA	8260B									
Laboratory Control Sample (5J28009-BS1)	·			Prepared	& Analyze	ed: 10/28/	05	<u>-</u>		
tert-Amyl methyl ether	14.8	0.50	ug/l	15.0		99	80-115			
tert-Butyl alcohol	152	20	11	143		106	75-150			
Di-isopropyl ether	15.0	0.50	11	15.1		99	75-125			
1,2-Dibromoethane (EDB)	16.4	0.50	**	14.9		110	85-120			
1,2-Dichloroethane	15.3	0.50	11	14.7		104	85-130			
Ethanol	143	100	"	142		101	70-135			
Ethyl tert-butyl ether	15.7	0.50	n	15.0		105	75-130			
Methyl tert-butyl ether	7.53	0.50	**	7.02		107	65-125			
Surrogate: 1,2-Dichloroethane-d4	4.52		"	5.00		90	60-135			





Geologica Inc [Sn Fsco]	Project:Zaccor:002	MOJ1184
594 Howard St. suite 400	Project Number: Grand St. Marina	Reported:
San Francisco CA, 94105	Project Manager: Gene Suemnicht	10/28/05 17:17

#### **Notes and Definitions**

S09	The recovery of this surrogate is outside control limits due to sample dilution which was required by high analyte concentration in the sample and/or matrix interference.
S08	The surrogate recovery for this sample is not available due to sample dilution which was required by high analyte concentration and/or matrix interference.
S04	The surrogate recovery for this sample is above control limits due to interference from the sample matrix.
QC21	The RPD result exceeded the control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
HC-17	Chromatogram Pattern: Diesel C10-C28
HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis

RPD

Relative Percent Difference



# Sequoia Chain-of- Analytical Custody (COC)

885 Jarvis Drive - Morgan Hill, CA 95037 - (408) 776-9600 - FAX (408) 782-6308
1455 McDowell Blvd, Suite D • Petaluma, CA 94954 • (707) 792-1865 • FAX (707) 792-034
819 Striker Ave, Sulte 8 . Sacramento, CA 95834 . (916) 921-9600 . FAX (916) 921-0100
1551 Industrial Road - San Carlos, CA 94070 - (650) 232-9600 - FAX (650) 232-9612
404 N. Wiget Lane • Walnut Creek, CA 94598 • (925) 988-9600 • FAX (925) 988-9673

			·				**********						<del></del>				<u></u>
Company No			Proje			nd St. Marina)							<u>`</u>				
Meiling Addr		rd Street, Suit			f different):											·	
City: San Fr		<del> </del>	State: CA		ode: 9410	5.	55.										
Telephone:	415-597-7888			97-7880	-6128-551		P.O.#			<del></del>		4. 6		<del>,</del>		<del></del>	
Report To:	Gene Suemnich		E-mail Address: Date / Time Resu				QC	Data:		reve	11 (50	andard) Vork Ord	. 4		evel I	11	Level IV
Sampler:	Gene Suemnich	<u> </u>	Date / Time Rest	MANDATO		3aid		ANIAI	Voca			(Please			w.Alba		100 A
Turnaround Time:	□ 10-15 Working (Standard Day Tworking Day	TAT) ys	72 Hours 48 Hours 24 Hours 2-8 Hours	SDWA (	(Drinking W Waste Wate (Hazardous	r) Waste)	1184)	SM)		dal Pb	uestet		PIO	NG9	(Intro	<u>a)</u>	
Client	Sample I.D.	Date/	rime Sampled	Matrix Desc.	# of Cont.	Container Type	Sequoia's Sample #	TPH 9.	8260 (BTEX, Oxygenates)	6000-7							Comments / Temp (If required)
1.	T-1	10/20	0/2005 15:00	soil	1	16 oz.Glass	6/	х		Х							Alameda Co requests 8260 for EDB, EDC,
2	T-2		15:05	soll		16 oz.Glass	<i>62</i> /	X	X	x							MTBE, TAME, ETBE, DIPE,TBA, EtOH for
3.	Т-3		15:10	soil	<u> </u>	16 oz.Glass	קיט	x	x	х			_				soils
4.	T-4		15:15	soil		16 oz.Glass	oy	X	X	×		}	ļ	,	•	,	
<b>5</b> .	Pump-1		15:35	soil		Brass sleeve	br	х	Х	×		826	O	Ο¥	۷,		
6.	Water-1		15:45	water		VOA, Illir Amber, 250 ml Plas	ry	X	Х	×		4	3-	·D	ay	١٨	meda Co, requests
7.	Stockpile-1		16:00	soil		32 oz. glass	67	X	х	x		انڪ	) Y	net	ay als.	to	2/624 for water
8.	Stockplle-2		16:10	soil		32 oz. glass	هه.	×	x	x	Ì		•	<sup>ب</sup> ، کر ۔۔۔	····		
9. Sı	pply Trench-1		l 16:20	soll		Brass sleeve	07	x	x	х	,						
10,																	
elinquish	ed By:		- N	10/2	1105	Received By:	you De	2(1)	الرام	~			Ĺ	Date	7 Tir	n <del>o</del> :/	0/21/05 1435
	ed By:	,, <del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>				Received By:											121/0 830
	ed By:				<u> </u>	Received By:	<del></del>	- K-E		~~~~					/ Th		Y WAY
	ed By:				······································	Received By:					<del></del>				/Th		
· ·	es Received in Good	Condition?	☐ Yes ☐ I	lo Sam	ples on ice		□No Meth	od of	Shipn	ient:							Page 1 of 1

#### SEQUOIA ANALYTICAL SAMPLE RECEIPT LOG

	CLIENT NAME: REC. BY (PRINT) WORKORDER:	Grologica E Falliv MOJ:11			DATE REC'D AT LAB: TIME REC'D AT LAB: DATE LOGGED IN:	. ৪৫৩			•	-	ory Purposes? MATER YES/MOD TER YES/MOD
	CIRCLE THE APPROP	RIATE RESPONSE	LAB SAMPLE#	DASH #	CLIENT ID .	CONTAINER DESCRIPTION	PRESERV ATIVE	pH ·	SAMPLE MATRIX		REMARKS: CONDITION (ETC.)
1.	Custody Seal(s)	Present / Absent	ध	A	47-1	16 07 jar			.5"	10/20/25	
		Intact / Broken*	ر2ن		T-2.	<del></del>	<del>-  , -  </del>			<del>,    </del>	
	Chain-of-Custody	Present / Absent*	المحادث	1	, T-4				: :		
. 3.	Traffic Reports or Packing List:	Present / Absent	65°	1	pump -1.	B - core					
	Airbill:	Affelil / Sticker	104	Acc	water-1	Wa (3)	HCI		W		
4.	Linnin.	Présent / Absent	L.	DE	\	1 Lambur (2)			1	•	
5.	'Airbill #: enlaw Die		1	F		500 in poly	+1N03				
	Sample Labels:	Present / Absent	67-08	-/-	stockpile-1+				· .		
7.	Sample IDs:	Listed / Not Listed	on.	1	Sipply Tauch +	12. core		<u> </u>	<u> </u>		
	*	on Chain-of-Custody				· · · · · · · · · · · · · · · · · · ·			<del></del>	<b></b>	
8.	;Sample Condition:	lfitact / Broken* /		ļ		-	· ·				
		Leaking* ·		<del> </del>	•				·		
9.	Does information on o	· · · · · · · · · · · · · · · · · · ·		<del> </del>							
	traffic reports and sa		<del></del>	-	· · · · · · · · · · · · · · · · · · ·						32.35
	agree?	· Yes / No*	<del></del>	<del>                                     </del>			//		79170.078	<b>(</b> 0/1)	
10.	Sample received within hold time?	Yeş / No*				-		1	/		
	Adequate sample volum		<u> </u>	<u> </u>				$V_{-}$	200		
	received?	Yes/No*					7.1		$\mathcal{L}_{\ell n}$		
12	Proper preservatives us		,			CS	450	(£.V.)		<b>38</b>	
	Trip Blank / Temp Blan								<i>(</i> 9),		
	(circle which, if yes)	Yes / No*			. /				\$\\\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		
14.	Read Temp:	<u> 5.7. c</u>									
	Corrected Temp:	5.7 °C									
	Is corrected temp 4+/-	·2°C? Yes/No**	<u> </u>			-					
	ceptance range for samples re					,					
2,4	xception (If any): META	ALS / DFF ON OE									
	r Problem COC	TO THE THE PERSON WAS A STREET OF THE PERSON	C. C	natayanta)			oxdot				
	CONTROL OF THE PARTY OF THE PAR	The second secon	*IF CIR	CLED.	CONTACT PROJECT N	ANAGER AND	) A			Se si ricini.	

Revision 7 Rev 5 (07/13/04) 77/19/05

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885 Jarvis Drive Morgan Hill, CA 95037 (408) 776-9600 FAX (408) 782-6308 www.sequoialabs.com

7 November, 2005

Gene Suemnicht Geologica Inc [Sn Fsco] 594 Howard St. suite 400 San Francisco, CA 94105

RE: Zaccor:002

Work Order: MOK0153

Enclosed are the results of analyses for samples received by the laboratory on 11/04/05 09:30. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Jin A

Tim Costello Lab Manager

CA ELAP Certificate #1210





Geologica Inc [Sn Fsco]	Project:Zaccor:002	MOK0153
594 Howard St. suite 400	Project Number: Grand St. Marina	Reported:
San Francisco CA, 94105	Project Manager:Gene Suemnicht	11/07/05 11:48

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
OEx-1	MOK0153-01	Soil	11/03/05 14:30	11/04/05 09:30
OEx-2	MOK0153-02	Soil	11/03/05 14:35	11/04/05 09:30
OEx-3	MOK0153-03	Soil	11/03/05 15:00	11/04/05 09:30





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

#### Purgeable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

	-							
Analyte Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OEx-1 (MOK0153-01) Soil Sampled: 11/03/05 14:30	Received: 1	1/04/05 09:	30					
Gasoline Range Organics (C4-C12) 450	250	ug/kg	5	5K04001	11/04/05	11/04/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	94 %	35-13	0	"	"	"	#	
OEx-2 (MOK0153-02) Soil Sampled: 11/03/05 14:35	Received: 1	1/04/05 09:3	30					
Gasoline Range Organics (C4-C12) 370	50	ug/kg	1	5K04001	11/04/05	11/04/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	90 %	35-13	0	"	n	н	u	
OEx-3 (MOK0153-03) Soil Sampled: 11/03/05 15:00	Received: 1	1/04/05 09:	30					
Gasoline Range Organics (C4-C12) ND	50	ug/kg	1	5K04001	11/04/05	11/04/05	EPA 8015B-VOA	
Surrogate: 4-Bromofluorobenzene	61 %	35-13	30	31	n	п	n	





Project: Zaccor: 002
Project Number: Grand St. Marina
Project Manager: Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

#### Extractable Hydrocarbons by EPA 8015B Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OEx-1 (MOK0153-01) Soil Sampled: 11/0	3/05 14:30	Received: 1	1/04/05 09	:30					
Diesel Range Organics (C10-C28)	7.8	1.0	mg/kg	1	5K04033	11/04/05	11/05/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		90 %	30-1	159	п	"	"	"	
OEx-2 (MOK0153-02) Soil Sampled: 11/0	3/05 14:35	Received: 1	1/04/05 09	:30					
Diesel Range Organics (C10-C28)	200	10	mg/kg	10	5K04033	11/04/05	11/05/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		186 %	30-	159	"	"	""	"	S04
OEx-3 (MOK0153-03) Soil Sampled: 11/0	3/05 15:00	Received: 1	1/04/05 09	:30					
Diesel Range Organics (C10-C28)	9.6	1.0	mg/kg	1	5K.04033	11/04/05	11/05/05	EPA 8015B-SVOA	HC-12
Surrogate: n-Octacosane		105 %	30-	159	11	"	"	"	





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

#### Total Metals by EPA 6000/7000 Series Methods Sequoia Analytical - Morgan Hill

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
OEx-1 (MOK0153-01) Soil	Sampled: 11/03/05 14:30	Received: 11	1/04/05 0	9:30					
Lead OEx-2 (MOK0153-02) Soil	12 Sampled: 11/03/05 14:35	5.0 Received: 11	mg/kg L/04/05 0	1 99:30	5K04020	11/04/05	11/04/05	EPA 6010B	
Lead OEx-3 (MOK0153-03) Soil	5.3 Sampled: 11/03/05 15:00	5.0 Received: 11	mg/kg 1/04/05 (	1 )9:30	5K04020	11/04/05	11/04/05	EPA 6010B	
Lead	390	5.0	mg/kg	1	5K04020	11/04/05	11/04/05	EPA 6010B	





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
OEx-1 (MOK0153-01) Soil Sample	d: 11/03/05 14:30	Received: 1	1/04/05 09	9:30					
Benzene	ND	5.0	ug/kg	1	5K04012	11/04/05	11/04/05	EPA 8260B	
Ethylbenzene	ND	5.0	17	11	11	н	11	II .	
Toluene	ND	5.0	#	19	11	II	11	II	
Xylenes (total)	ND	5.0	Ħ	n 	19	n	11 		
Surrogate: Dibromofluoromethane		91 %	55-	125	"	"	"	"	
Surrogate: 1,2-Dichloroethane-d4		87 %	60-	125	n	n	#	"	
Surrogate: Toluene-d8		99 %	65-	130	n	n	H	"	
tert-Amyl methyl ether	ND	5.0	"	tt .	II	**	"	"	
tert-Butyl alcohol	ND	20	**	н	n	w	п	n n	
Di-isopropyl ether	ND	5.0	**	Ħ	11	**	#	11	
1,2-Dibromoethane (EDB)	ND	5.0	••	Ħ	11	11	11	11	
1,2-Dichloroethane	ND	5.0	71	**	tt	11	**	11	
Ethanol	ND	100	**	**	н	**	**	11	
Ethyl tert-butyl ether	ND	5.0	19	n	tt	**	11	11	
Methyl tert-butyl ether	ND	5.0	11	**	tt	11			
Surrogate: 1,2-Dichloroethane-d4		87 %	60-	125	#	"	"	"	
OEx-2 (MOK0153-02) Soil Sample	d: 11/03/05 14:35	Received: 1	1/04/05 0	9:30				_	
Benzene	ND	5.0	ug/kg	1	5K04012	11/04/05	11/04/05	EPA 8260B	
Ethylbenzene	ND	5.0	n	11	n	15	**	tt.	
Toluene	ND	5.0	**	**	n	**	11	It	
Xylenes (total)	ND	5.0	**	**	Ħ	<b>9</b> 1	17	"	
Surrogate: Dibromofluoromethane		74 %	55-	125	"	"	"	n	
Surrogate: 1,2-Dichloroethane-d4		74 %	60-	125	"	"	"	"	
Surrogate: Toluene-d8		105 %	65-	130	rt .	"	"	"	
tert-Amyl methyl ether	ND	5.0	19	**	Ħ	19	11	H	
tert-Butyl alcohol	ND	20	11	"	**	11	n	Ħ	
Di-isopropyl ether	ND	5.0	17	"	**	"	n	Ħ	
1,2-Dibromoethane (EDB)	ND	5.0	11	71	**	19	11	Ħ	
1,2-Dichloroethane	ND	5.0	11	19	**	19	11	"	
Ethanol	ND	100	n	19	Ħ	11	11	rr	
Ethyl tert-butyl ether	ND	5.0	n	19	**	11	11	FF	
Methyl tert-butyl ether	ND	5.0	71	**	"	"	11	11	
Surrogate: 1 2-Dichloroethane-d4		74 %	60.	125	"	"	"	"	





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
OEx-3 (MOK0153-03) Soil	Sampled: 11/03/05 15:00	Received: 1	1/04/05 0	9:30					
Benzene	ND	5.0	ug/kg	1	5K04012	11/04/05	11/04/05	EPA 8260B	
Ethylbenzene	ND	5.0	п	17	,,	**	n	u	
Toluene	ND	5.0	n	11	"	**	**	н	
Xylenes (total)	ND	5.0	11	"		"	et .	ű .	
Surrogate: Dibromofluoromet	hane	77 %	55-	125	"	"	n	"	
Surrogate: 1,2-Dichloroethane	<i>2-d</i> 4	75 %	60-	125	"	"	#	"	
Surrogate: Toluene-d8		100 %	65-	130	"	#	Ħ	"	
tert-Amyl methyl ether	ND	5.0	11	**	11	***	11	n	
tert-Butyl alcohol	ND	20	11	11	**	***	**	u u	
Di-isopropyl ether	ND	5.0	11	R	**	er	**	n	
1,2-Dibromoethane (EDB)	ND	5.0	11	**	11	**	#	n	
1,2-Dichloroethane	ND	5.0	11	**	**	"	**	n	
Ethanol	ND	100	11	**	**	"	**	n	
Ethyl tert-butyl ether	ND	5.0	19	"	11	n	er	n	
Methyl tert-butyl ether	ND ND	5.0	11	н	n	Ħ	Ħ	tt .	
Surrogate: 1,2-Dichloroethane	г-d4	75 %	60-	125	n	н	n	"	



RPD



Geologica Inc [Sn Fsco]Project: Zaccor: 002MOK0153594 Howard St. suite 400Project Number: Grand St. MarinaReported:San Francisco CA, 94105Project Manager: Gene Suemnicht11/07/05 11:48

#### Purgeable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5K04001 - EPA 5035 heated p	rg / EPA 8015	B-VOA			· · · · · · · · · · · · · · · · · · ·					
Blank (5K04001-BLK1)				Prepared	& Analyz	ed: 11/04/	05			
Gasoline Range Organics (C4-C12)	ND	50	ug/kg							
Surrogate: 4-Bromofluorobenzene	38.3		"	40.0		96	35-130			
Laboratory Control Sample (5K04001-B	S1)	Prepared & Analyzed: 11/04/05								
Gasoline Range Organics (C4-C12)	257	50	ug/kg	275		93	55-140			
Surrogate: 4-Bromofluorobenzene	40.4		"	40.0		101	35-130			
Matrix Spike (5K04001-MS1)	Source: MC	K0106-01		Prepared	& Analyz	ed: 11/04	/05			
Gasoline Range Organics (C4-C12)	119	50	ug/kg	275	ND	43	55-140			QM02
Surrogate. 4-Bromofluorobenzene	27.5		H	40.0		69	35-130			
Matrix Spike Dup (5K04001-MSD1)	Source: MC	)K0106-01		Prepared	& Analyz	ed: 11/04	/05			
Gasoline Range Organics (C4-C12)	172	50	ug/kg	275	ND	63	55-140	36	20	QC2
Surrogate: 4-Bromofluorobenzene	36.9		"	40.0		92	35-130			

%REC





Geologica Inc [Sn Fsco]Project:Zaccor:002MOK0153594 Howard St. suite 400Project Number:Grand St. MarinaReported:San Francisco CA, 94105Project Manager:Gene Suemnicht11/07/05 11:48

#### Extractable Hydrocarbons by EPA 8015B - Quality Control Sequoia Analytical - Morgan Hill

	204									
Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch 5K04033 - EPA 3550B / EPA	8015B-SVOA									
Blank (5K04033-BLK1)				Prepared:	11/04/05	Analyzed	: 11/05/05			
Crude Oil (C9-C40)	ND	10	mg/kg	- <b></b> -						SPCM
Diesel Range Organics (C10-C28)	ND	1.0	II							
Surrogate: n-Octacosane	1.43		"	1.67		86	30-159			
Laboratory Control Sample (5K04033-B	S1)			Prepared:	11/04/05	Analyzed	1: 11/05/05			
Diesel Range Organics (C10-C28)	14.7	1.0	mg/kg	16.7		88	54-139			
Surrogate: n-Octacosane	1.50		"	1.67		90	30-159	•		
Matrix Spike (5K04033-MS1)	Source: M	OK0107-02		Prepared:	11/04/05	Analyzed	1: 11/05/05			
Diesel Range Organics (C10-C28)	755	50	mg/kg	16.7	810	0	54-139			QM05
Surrogate: n-Octacosane	7.09		n	1.67		425	30-159			509
Matrix Spike Dup (5K04033-MSD1)	Source: M	OK0107-02		Prepared:	11/04/05	Analyzed	1: 11/05/05			
Diesel Range Organics (C10-C28)	552	50	mg/kg	16.7	810	0	54-139	31	29	QM05
Surrogate: n-Octacosane	5.89		"	1.67		353	30-159			S09



RPD



Geologica Inc [Sn Fsco]Project:Zaccor:002MOK0153594 Howard St. suite 400Project Number:Grand St. MarinaReported:San Francisco CA, 94105Project Manager:Gene Suemnicht11/07/05 11:48

#### Total Metals by EPA 6000/7000 Series Methods - Quality Control Sequoia Analytical - Morgan Hill

Reporting

Spike

Source

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5K04020 - EPA 3050B / EPA	6010B									
Blank (5K04020-BLK1)				Prepared	& Analyz	ed: 11/0 <u>4/</u>	05			
Lead	ND	5.0	mg/kg							
Laboratory Control Sample (5K04020-B	S1)			Prepared	& Analyz	ed: 11/0 <u>4/</u>	05			
Lead	46.0	5.0	mg/kg	50.0		92	75-120			
Matrix Spike (5K04020-MS1)	Source: MC	J0907-01		Prepared	& Analyz	ed: 11/0 <u>4/</u>	05			
Lead	46.3	5.0	mg/kg	50.0	4.4	84	75-120			
Matrix Spike Dup (5K04020-MSD1)	Source: MO	J0907-01_		Prepared	& Analyz	ed: 11/0 <u>4/</u>	05			
Lead	43.6	5.0	mg/kg	50.0	4.4	78	75-120	6	20	

%REC





Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

RPD

%REC

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Spike

Source

Reporting

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Notes
Batch 5K04012 - EPA 5035 / EPA 8260	В									
Blank (5K04012-BLK1)				Prepared	& Analyz	ed: 11/04/	05			
tert-Amyl methyl ether	ND	5.0	ug/kg	<u> </u>	•					
Benzene	ND	5.0	ij							
tert-Butyl alcohol	ND	20	н							
Di-isopropyl ether	ND	5.0	11							
1,2-Dibromoethane (EDB)	ND	5.0	II.							
1,2-Dichloroethane	ND	5.0	11							
Ethanol	ND	100	ч							
Ethyl tert-butyl ether	ND	5.0	PE							
Ethylbenzene	ND	5.0	tt							
Methyl tert-butyl ether	ND	5.0	п							
Toluene	ND	5.0	п							
Xylenes (total)	ND	5.0	и							
Surrogate: Dibromofluoromethane	3.84		"	5.00		77	55-125	_		
Surrogate: 1,2-Dichloroethane-d4	3.85		rt .	5.00		77	60-125			
Surrogate 1,2-Dichloroethane-d4	3.85		#	5.00		77	60-125			
Surrogate: Toluene-d8	4.75		n	5.00		95	65-130			
Laboratory Control Sample (5K04012-BS1	)			Prepared	& Analyz	ed: 11/04/	05			
tert-Amyl methyl ether	14.7	5.0	ug/kg	15.0	<del></del>	98	80-130			
Benzene	5.74	5.0	11	5.16		111	65-125			
tert-Butyl alcohol	140	20	**	143		98	80-165			
Di-isopropyl ether	15.7	5.0	n	15.1		104	85-115			
1,2-Dibromoethane (EDB)	15.9	5.0	**	14.9		107	85-130			
1,2-Dichloroethane	15.6	5.0	n	14.7		106	63-124			
Ethanol	217	100	**	142		153	35-150			QL0
Ethyl tert-butyl ether	15.1	5.0	Ħ	15.0		101	80-125			
Ethylbenzene	7.62	5.0	n	7.54		101	80-135			
Methyl tert-butyl ether	6.70	5.0	11	7.02		95	75-115			
Toluene	39.6	5.0	11	37.2		106	85-125			
Xylenes (total)	43.3	5.0	n	41,2		105	80-140			
Surrogate: Dibromofluoromethane	4.57		"	5.00		91	55-125	_		-
Surrogate 1/2-D chloroethane-d4	427			5 00		۸s	60-125			
Surrogate 1.2-Dichloroeihare-d4	427		,	5 (11)		4.5	60-125			
Surrogate Toluene-dS	4 74		"	5 (34)		96	65-136			





Analyte

Project:Zaccor:002
Project Number:Grand St. Marina
Project Manager:Gene Suemnicht

MOK0153 Reported: 11/07/05 11:48

Notes

RPD

Limit

%REC

Limits

RPD

#### Volatile Organic Compounds by EPA Method 8260B - Quality Control Sequoia Analytical - Morgan Hill

Units

Spike

Level

Result

%REC

Reporting

Limit

Result

198

7 maryic	Result	Limit	Oilles	DOTO	TOSULE	70100	21111111		Биис	
Batch 5K04012 - EPA 5035 / EPA 82	260B									
Matrix Spike (5K04012-MS1)	Source: MO	K0116-01		Prepared	& Analyze	ed: 11/04/	05			
tert-Amyl methyl ether	13.8	5.0	ug/kg	15.0	0.15	91	80-130			
Benzene	5.65	5.0	п	5.16	0.80	94	65-125			
tert-Butyl alcohol	136	20	п	143	ND	95	80-135			
Di-isopropyl ether	14.6	5.0	n	15.1	ND	97	85-115			
1,2-Dibromoethane (EDB)	14.5	5.0	Ħ	14.9	ND	97	85-130			
1,2-Dichloroethane	12.4	5.0	u	14.7	ND	84	63-124			
Ethanol	125	100	п	142	ND	88	35-150			
Ethyl tert-butyl ether	14.0	5.0	IJ	15.0	ND	93	80-125			,
Ethylbenzene	6.97	5.0	11	7.54	ND	92	80-135			
Methyl tert-butyl ether	5.65	5.0	и	7.02	ND	80	75-115			
Toluene	37.6	5.0	11	37.2	ND	101	85-125			
Xylenes (total)	38.2	5.0	11	41.2	ND	93	80-140			
Surrogate: Dibromofluoromethane	3.58		"	5.00		72	55-125			
Surrogate: 1,2-Dichloroethane-d4	3.72		**	5.00		74	60-125			
Surrogate: 1,2-Dichloroethane-d4	3.72		**	5.00		74	60-125			
Surrogate: Toluene-d8	4.87		"	5.00		97	65-130			
Matrix Spike Dup (5K04012-MSD1)	Source: MO	K0116-01		Prepared	& Analyz	ed: 11/04/	′05			
tert-Amyl methyl ether	14.0	5.0	ug/kg	15.0	0.15	92	80-130	1	25	
Benzene	5.62	5.0	tt	5.16	0.80	93	65-125	0.5	20	
ert-Butyl alcohol	141	20	u	143	ND	99	80-135	4	20	
Di-isopropyl ether	15.0	5.0	n	15.1	ND	99	85-115	3	20	
1,2-Dibromoethane (EDB)	14.3	5.0	**	14.9	ND	96	85-130	1	15	
1,2-Dichloroethane	12.4	5.0	**	14.7	ND	84	63-124	0	25	
Ethanol	150	100	**	142	ND	106	35-150	18	40	
Ethyl tert-butyl ether	14.2	5.0	19	15.0	ND	95	80-125	1	25	
Ethylbenzene	7.03	5.0	19	7.54	ND	93	80-135	0.9	20	
Methyl tert-butyl ether	5.80	5.0	**	7.02	ND	83	75-115	3	35	
Toluene	39.1	5.0	11	37.2	ND	105	85-125	4	15	
Xylenes (total)	39.2	5.0	*	41.2	ND	95	80-140	3	20	
Surrogate: Dibromofluoromethane	3.92		'n	5.00		78	55-125			
Surrogate I 2-Dichloroethane-d4	3 73		-	5.00		~5	60-125			
Swrogate 1,2-Dichioroethane-d4	3 ~3		,	5.60		7,5	60-125			

5.60

Surrogate Toluene-d8

65-130

100





Geologica Inc [Sn Fsco]	Project:Zaccor:002	MOK0153
594 Howard St. suite 400	Project Number: Grand St. Marina	Reported:
San Francisco CA, 94105	Project Manager: Gene Suemnicht	11/07/05 11:48

#### Notes and Definitions

SPCM	The concentration indicated for this analyte is derived from a single point calibration with no MDL study.
S09	The recovery of this surrogate is outside control limits due to sample dilution which was required by high analyte concentration in the sample and/or matrix interference.
S04	The surrogate recovery for this sample is above control limits due to interference from the sample matrix.
QM05	The spike recovery was below control limits for the MS and/or MSD due to analyte concentration at 4 times or greater the spike concentration. The QC batch was accepted based on LCS and/or LCSD recoveries within the acceptance limits.
QM02	The spike recovery was below control limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QL01	The LCS recovery was above the control limit by 3%.
QC20	The RPD was outside control limits.
HC-12	Hydrocarbon pattern is present in the requested fuel quantitation range but does not resemble the pattern of the requested fuel.
DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit or MDL, if MDL is specified
NR	Not Reported
dry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference

## **APPENDIX C**

CITY OF ALAMEDA

2263 SANTA CLARA AVENUE, ROOM 190 ALAMEDA, CA 94501

(510) 747-6800 FAX (510) 747-6804

Fire Permit: F05-0119

Applicant Information

ZACCOR CORPORATION 2900 MAIN STREET ALAMEDA, CA 94501 510-522-6210

Contractor Information ZACCOR CORPORATION

2900 MAIN STREET ALAMEDA, ÇA 94501 510-522-6210

Owner Information

ENCINAL MARINA LTD 2099 GRAND ST

ALAMEDA, CA 94501

Project Information

Status: ISSUED

Applied: 10/12/2005

Issued: 10/18/2005

Type: Fire Permit

Category: NA Sub-Type, NA

Parcel Number: 072-0380-003-00

Valuation: \$73,000.00

Job Address: 2099 GRAND ST

Work Description: REMOVE & DISPOSE OF 2 UNDERGROUND 12,000 GALLON TANKS (1 DIESEL/1GAS)

INSPECTIONS

Building:

(510) 747-6830 (7:30-9:30 AM)

Finalcd:

(510) 747-6830 (7:30-9:30 AM)

Plumbing & Mechanical: (510) 747-6830 (7:30-9:30 AM)

Fire:

Electrical:

(510) 337-2120 Design Review: (510) 747-6850

TTEM# FEE DESCRIPTION ACCOUNT CODE UNITS **FEE AMOUNT** PAID 250-PERMIT FILING FEE (per activity) 250 4140-37450 (1050) 1 \$40.00 \$40.00 530 530-Tanka Remove Commercial (each) 3220-37260 (6200) 2 \$750.00 \$750,00 620 620-Records Management Fee (each) 469409-37900 (6210) 5 \$17.50 \$17.50 965 965-Community Planning Fcc (Enter 1) 4140-33064 (8765) 1 \$219.00 \$219.00 2999 Technology Fee 4140-33063 (1051) \$39.50 \$39.50

Total Foca:

\$1,066.00

	· · · · · · · · · · · · · · · · · · ·			<del></del>	
RECEIPT#	PAYMENT METHOD	CHECK#	COMMENTS/PAYER	RECEIPT DATE	RECEIPT AMT
425437	Credit Card		JEFFREY ZACCOR	10/12/2005	\$1,066,00
				Total Payments:	\$1,066.00
i					
	<del></del>			Balance Due:	\$0.00

Permit #: F05-0119

#### CITY OF ALAMEDA 2263 SANTA CLARA AVENUE, ROOM 190 ALAMEDA, CA 94501

#### Inspection Card

Address:	2099 GRAND ST	ISSUED:	10/18/2005
		VALUATION.	972 000 00

Owner: ENCINAL MARINA LTD, 2099 GRAND ST, ALAMEDA, CA 94501
Contractor: ZACCOR CORPORATION, 2900 MAIN STREET, ALAMEDA, CA 94501, 510-522-6210

Work Description: REMOVE & DISPOSE OF 2 UNDER	RGROUND 12,000 GALLON TANKS (1 DIESEL/IGAS)	
Foundations:	Sheetrock / Interior Lath:	
Ground Plumbing:	(Required before taping or plastering)	
Rough Electric:	Exterior Lath:	
	(Required before Stucco)	
	DESIGN REVIEW: (YES) (NO) BY	
Rough Plumbing:	Final	
	Gas Test:	
Rough Heating & Ventilation:	CART & CALL	
Todge Helium & Ventimeton	Kelly Test:	
Sub Floor:	Sewer Repair / Replacement:	
	Final - Blectric:	
Frame:	Final - Fire Department:	24/05
Insulation	Final Plumbing:	
Certificate	Final Heating & Ventilation:	
** Comments **		
	Final - Building:	
Do not occupy structure until Certification of Occupancy has been inspection card with all Finals needs to be filed with the Permit Co	a issued. For Certificate of Occupancy to be issued, a copy of the enter, Room 190, City Hall, Alameda, CA	
**SMOKE ALARMS REQUI	IRED-CBC Section 310.9.1.2**	
	p R. Occupancy exceeds \$1,000 and a permit is required, or when one	
or more sleeping rooms are added or created in existing Group R Scenars 310.9.1.3, 310.9.1.4 and section 310.9.1.5"	Occupancies, smoke alarms shall be installed in accordance with	
INSPECTIONS (SAME DAY) - CALL 7:30-9:30 A M. ONLY	NSPECTIONS (MUST BE SCHEDULED)	
Building. (510) 747-6830	Fire: (510) 337-2120	
Plumbing & Mechanical: (510) 747-6830	Design Renew (510) 747-6850	

Dectrical: (510) 747-6830

ALAMEDA COUNTY DEH

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6.	Ç	ontractor ZACCOR COMBANIES, TNC.
	Ac	tdress 2900 MAIN STREET, SLITE 3100
	Ci	ty, State Alameda, CA . Zip 94501 Phone 510 522 6210
	Lic	cense TypeContactor, C 21, A. HAZ, ASB ID# 478799
7.	Cc	onsultant (if applicable)
•	Ac	onsultant (if applicable)
	Cit	ty, State Zip Phone
8.	Mε	ain Contact Person for Investigation (if applicable)
	Na	THE JOE DEN BESTE THE GENERAL MANAGER
	Ćo	mpany ZACCOR COMPANIES, TIE
,	Ph	one 5/0 385 6945
<b>. 9</b> ,		mber of underground tanks being closed with this plan2
		ngth of plping being removed under this plan 1000 Feet
	Tot	tal number underground tanks at this facility (**confirmed with owner or operator) 2
10.	Sta	ite Registered Hazardous Waste Transporters/Facilities (See Instructions).
	a)	Product/Residual Sludge/Rinsate Transporter
		Name NRC Environmental Services EPAI.D. No. CAR 0000 30114
		Hauler License No. 010 4989 License Exp. Date July 31, 2006
		Address 1605 Fary Powr
		City, State Alanda, CA Zip 94501
	b)	Product/Residual Sludge/Rinsate Disposal Site
		Name EVERLEEN ENVIRON MENTY EPA I.D. No. CAVAGOSSTAYS
		Address 6890 SMINT INE
		City, State NEWARZK CA Zin GARIOD

	c)	Tank and Piping Transporter	N/A
		Name	EPA I.D. No
		Hauler License No.	License Exp. Date
		Address	
		City, State	Zip
	d)	Tank and Piping Disposal Site Recyc	ding Site
		Name Ako Iran+Wetal	EPA I.D. No. N/A
	. •	Address 1091 Dodittle DA	
	,	City, State San Leandro CA 945	
11.	San	mple Collector	
	Nan	me Geologica Inc	•
	Соп	me Geologica Inc	
	Add	tress 2625 Alcatraz Ave, Si	te 504
	City	, State <u>Reducey</u> , <u>CA</u> Zip	94705 Phone 505 1401
12,	Lab	oratory	
	Nan	ne	
	Con	mpany SEQUOIA ANALYTICA	1
		tress 404 N. WIGHT	
		, State WWANT CREEK . CA	
•		te Certification No # 1271	
13.	Hav	e tank(s) or piping leaked in the past? Yes [	1 No.1 1 Hokoowa I
•		ss, describe:	1 10 L. 1 CHARIOTHI (P)
,			1
14.	Desc	cribe method(s) to be used for rendering tank	(c) inorti
	K	MINSE & CIEAN VENTIUM	1
		1 0 5 10 1 0 10	110.7
		,	

12/22/2005 15:15

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09/22/2005 04:21

510-855-1240

GRAND MARINA

PAGE 02

89/21/2005 10:41

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ZACCOR

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89/14/2005 10:36

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ALAMEDA COUNTY DEH

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Before tank(s) are pumped out and inerted, all essociated piping must be flushed back into the tank(s). All accessible piping must then be removed, inaccessible plping must be permanently plugged using grout.

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 a combustible gas indicator to verify tank inertness. It is the contractor's responsibility to have a functional combustible gas indicator on site to verity that the tank(s) is inerted.

15. Tank History and Sampling Information \*\*\*(Sap Instructions) to

1	Tenk	,			
Capacity (gallons)	Use History include date lest used (estimated)	Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Sample(s)		
2,000 D	Fuel Dock	Service,	30		
1a,000 G	Closed	May 15, 2005	BELOW JANK BELOW		
	,	SOIL.	POPM 12 POOT.		
•	,	GMD WATER	GACH END		
			of TANK		
			5016-420		
			INTERFACE		
			SIDEWAY		

One soil sample must be collected for every 20 linear feet of underground plping that is removed. A groundwater eample must be collected if any groundwater is present in the excavation.

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ZACCOR

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09/14/2005 10:36

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ALAMEDA COUNTY DEH

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Excavated/Stockpiled Soil					
Stockpiled Soil Volume (estimated)	Sampling Plan				
·					
	,				
,					

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

Will the excavated soll be returned to the excavation immediately after tank removal? [ ] yes [ ] no [ ] unknown

If yes, explain reasoning Limines Space IN AREA. SAFETY
CONLEGES.

if unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without <u>prior</u> approval from this office. This means that the contractor, consultant, or responsible party must communicate with the Specialist in ADVANCE of backfilling activities.

09/14/2005 10:35

16. Chemical methods and associated detection limits to be used for analyzing sample(s):

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

See Table 2, Recommended Minimum Verification Analyses for Underground Tank Leaks.

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
GASOLINE	TYNG 8:015 6260 BYEX 8260 EVBAENL 8260 MYBE; ETRE 8260 THOME, MINE 8260	SEE TABLE	2 460
DESEL	TOHO BIEX ENBAEDC MISSIETSE ETHE, BIRR 8260	ATT	

- 17. Submit Site Health and Safety Plan (See Instructions)
- 18. Submit Worker's Compensation Certificate copy

Name of Insurer State COMPENSATION INSUPANCE FIND

- 19. Submit Plot Plan \*\*\*(See Instructions)\*\*\*
- 20. Enclose Deposit (See Instructions)
- Report all leaks or contamination to this office within 5 days of discovery. The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (URL) form.
- 22. Submit a closure report to this office within 60 days of the tank removal. The closure report must contain all information listed in item 22 of the instructions.
- 23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one-B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand comer).

## UNDERGROUND STORAGE TANK SYSTEM INSTALLATION INSPECTION REPORT

Facility Name: Grand Harbor Fuel Dock		_	
	•		
Address:2099 GRAND STREET City:ALA	MEDA	Zip:94	501
,			!
Project Contact:JOE DENBESTE SCOTT	Contact Phone N	o.: 510- 30	55-5795
tem Inspected	Inspection Date	Inspector Sign-Off	Time On Site
Signs.			
fire extinquishers.			
Site safety plan on-site			
		1	
			<del> </del>
		<del>                                     </del>	
PIPING TEST @ 25 PSI FOR ONE HOUR SPARMED 8:30 que	10/21/05	2.5.	25 mine
10:00 am	10/21/05	2.5.	25 mins
25 psi 110 25 psi	5.5		
gasoline $\mathcal{U}$	02.	205	
diesel WA O	0,51	2:10	
War	231		
Other (specify).			
		<u></u>	
Comments/Special Co.	nditione		
Comments/Special Co.	numuns;		

OCTE 3 2005



## **Geologica**

From:

"Weston, Robert, Env. Health" <robert.weston@acgov.org>

To: Sent: "Gene Suemnicht" <gsuemnicht@geologica.net> Wednesday, November 09, 2005 12:58 PM

Subject:

RE: Grand Marina

Gene,

After a review of the information in the reports it appears that the source removal from Location 4 was successful.

Since the extent of over excavation is limited by the location of the sales building it appears that backfilling at this time is the next step.

I will await the reports on the tank closure.

Robert Weston

Alameda County Department of Environmental Health 510 567-6781

CONFIDENTIALITY NOTICE: This electronic mail transmission may contain privileged information and/or confidential information only for the use by the intended recipients. Any usage, distribution, copying or disclosure by any other person, other than the intended recipient is strictly prohibited and may be subject to civil action and/or criminal penalties. If you have received this e-mail transmission in error, please notify the sender by e-mail or by telephone and delete the transmission.

----Original Message----

From: Gene Suemnicht [mailto:gsuemnicht@geologica.net]

Sent: Wednesday, November 09, 2005 10:22 AM

To: Weston, Robert, Env. Health

Subject: Grand Marina

An analytical summary and latest lab report for the Grand Marina UST work attached. Sample designations OEx- 1 and 2 are from the western pit wall

after the over excavating along the existing abandoned utility lines.

The

levels of IPH are considerably reduced. The elevated Pb is still evident in

OEx-3 taken from the pump deeper in the pit formerly occupied by the metal drip tank pan beneath the pump housing.

With your approval, we would like to fill the pit and continue evaluating the Pb near the pump area

Based on our earlier conversation. I plan to submit a proposal to the

Marina partners to clean up the Pb and install monitoring wells (3) to evaluate the dispersion of TPH related to the tanks. Please call me (707)

799-8097 to discuss the options. Thanks.

## **APPENDIX D**

~1000,1000

12/01/2005 16:11

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ZACCOR

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P. 2

Dec. 1. 2005 2:29PM

ecology control industries

DAY OR NIGHT

CERTIFICATE

TELEPHONE

CERTIFIED SERVICES COMPANY

(610) 235-1393

255 Parr Boulevard - Richmond, California 94801

CUSTOMER ZECCOF JOB. NO 52T1985

No. 2325

2099 Grand Aye. Alameda, Ca

FOR: ECOLOGY CONTROL INC.

TANK NO. 32796

LOCATION: RICHMOND

DATE:10/27/05\_\_ TIME: 3:45pm\_

TEST METHOD: VISUAL GASTECHH314 SMPN

LAST PRODUCT

Diesel

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE	: 12,000 GALLON		CONDITION: SAFE FOR FIRE
REMARKS:	OXYGEN 20.8% LOWER EX	PLOSIVE LIMIT LESS TH	AN 0.1% ECOLOGY CONTROL INDUSTRIES
	Hereby Certifies That it	ih above numbered t.	ANK HAS BEEN CUT OPEN, PROXINSHU
·	AND THEREFORE DESTROYS	ED AT OUR PERMITTED I	IAZARIX)US WASIE PACILITY.
	ECOLOGY CONTROL INDUST	ikies has the appropr	LATE PERMITS FOR AND HAS ACCEPTED
	THE TANK SHIPPED TO US FO	ur processing.	
-			
· · · · · · · · · · · · · · · · · · ·			
	f any physical or stmospheric liately stop all hot work and co ਸੇਬnges occar	changes affecting the g infact the undersigned	as-free conditions of the above tanks, or it in any This permit is valid for 24 hours if no physical or
SAFE FOR M at least 19.5 p	D SAFETY DESIGNATION: EN: Means that in the compassion by volume; and that (bijudgment of the inspector's continued in the inspector	riment or space so desi	gnated (a) The oxygen content of the atmosphere is atmosphere within permissible concentrations;
are not capable presence of fire have either be	le of producing a higher conce search while maintained as dis	r explosive limit; and the entralion that permitted rected on the inspectors rent the soread of the second control of the second con	i) The concentration of fiammable materials in the at (b) in the judgment of the inspector, the residues under existing atmospheric conditions in the accertificate, and further, (c) All adjacent spaces are satisfactorily inerted, or in the case of fuel tanks,
The undersign under which it	led representative acknowleds	ges receipt of this certifi	cate and understands the conditions and limitations
REPRESENTAT	MAY C	TITLE	James Wilcox INSPECTOR

12/01/2005 16:11

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ZACCOR

PAGE 04/06

4. US EPA ID Number  Ecology Control Industries  C A D 9 B 2 D 3 D 1 7 3 D. Transporter's Plane 540 235-1293  7. Transporter 2 Company Notes  8. US EPA ID Number  9. Designated Positry Name and Ste Address  Ecology Control Industries  10. US EPA ID Number  10. US EPA ID Number  F. Transporter's Plane  G. Sare Fatility's ID  Ecology Control Industries  10. US EPA ID Number  F. Transporter's Plane  G. Sare Fatility's ID  H. Fatility's Plane  Richmond CA 94801  C A D D D 9 4 6 6 3 9 2  11. US DOT Description (including Proper Shipping Number, Hazard Class, and (a Number)  C. Non-RCRA Hazardous Waste. Solid  (EMPTY STORAGE TANK/S)	UnifOKM HAZAKDOUS			of page			ent of Toxic Substance ioesamento, California
Security is form 1 5 / 6 665-72200  1 Companies 1 Company bloop  1 Companies 2 Company bloop  1 Companies 1 Company bloop  1 Companies 1 Company bloop  1 Companies 2 Company bloop  1 Companies 1 Company bloop  1 Companies 2 Company bloop  2 Companies 1 Company bloop  2 Company		MINONO 13121321	1285	8.9	»l 1	rs and rangu	
Screenists of them 1.5 / B GGS-/2.200  1. Comparison I Conseque Notes  1. Comparison I Consequ	ENCINAL MAR	LNA LPA GEN T. ACHTERNYCL C	WO MARIA	State 5		hereber (	45285
Ecology Control Industries  [C.A.D. 9. B. 2.D. 9. B. 2.D. 9. 1. 7. 3  [Sept. 10 Member 1 Company Name 5 to 225. 1203  [Sept. 10 Member 1 Company Name 4 to 4 t	4. Generator's Plans ( 5/10 865-/	200		1	1111		1111
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Dec. 1. 2005 2:29PM

ecology control industries

DAY OR NIGHT

CERTIFICATE

TELEPHONE

CERTIFIED SERVICES COMPANY

(510) 235-1393

265 Perr Boulevard - Richmond, California 94801

CUSTOMER Zaccor JOB. NO 52T1985

Ρ. ]

No.2325

2099 Grand Ave Alameda, Ca

FOR ECOLOGY CONTROL INC.

TANK NO . 32795

LOCATION:RICHMOND

DATE:11/02/05 \_\_ TIME: 3:45pm\_\_\_\_

TEST METHOD: VISUAL GASTECH/1314 SMPN

LAST PRODUCT <u>UNLEADED GAS</u>

This is to certify that I have personally determined that this is in accordance with the American Petroleum Institute and have found the condition to be in accordance with its assigned designation. This certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

TANK SIZE :	12,000 GALLON		CONDITION: SAFE FOR FIRE
REMARKS;	OXYGEN 20.9% LOWER EXPLOS	IVE LIMIT LESS TH	AN 0.1% ECOLOGY CONTROL INDUSTRIES
	HEREBY CERTIFIES THAT THE AB	OVE NUMBERED T	ANK HAS BEEN CUT OPEN, PROCESSED
	AND THEREFORE DESTROYED AT	OUR PERMITTED I	HAZARDOUS WASTE FACILITY,
	ECOLOGY CONTROL INDUSTRIES	HAS THE APPROPE	RIATE PERMITS FOR AND HAS ACCEPTED
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IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-806-424-8802; WITHIN CALIFORNIA,

## APPENDIX E



Photo 1 – Exposed gasoline UST at Grand Marina.



Photo 2 – Preparing for tank removal at Grand Marina



Photo  $3-Diesel\ UST$  removed and heading for the transport truck.



Photo 4 - Gasoline UST removed and being lifted to transport truck.



Photo 5 - View southeast of water in the bottom of the UST excavation pit.



Photo 6- View southeast of the supply and vent line pit. Foreground clipboard for scale.