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SUBSURFACE INVESTIGATION REPORT

January 17, 2003

921 98th Avenue Oakland, California

Prepared For: Mr. Stephen Vanni, Plant Manager Fleischmann's Yeast 921 98th Avenue Oakland, California 94603



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ACC Project Number: 6725-001.01

Prepared for:

Mr. Stephen Vanni Plant Manager Fleischmann's Yeast 921 98th Avenue Oakland, California 94603

January 17, 2003

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SUBSURFACE INVESTIGATION REPORT 921 98th Avenue Oakland, California

1.0 INTRODUCTION

This Subsurface Investigation Report has been prepared by ACC Environmental Consultants, Inc. (ACC) at the request of Fleischmann's Yeast (Client). This report describes subsurface investigation work performed at the Fleischmann's Yeast Facility located at 921 98th Avenue, Oakland, California (Site). The specific goals of this investigation were to: 1) characterize soil and groundwater and collect representative samples in the vicinity of the two former gasoline underground storage tanks (UST's) and one formaldehyde UST; 2) analyze select representative soil and grab groundwater samples from the soil borings for gasoline constituents; and 3) prepare a report of findings for submission to the Oakland Fire Services Agency (OFSA), the oversight regulatory agency.

The work performed consisted of advancing eight exploratory soil borings to total depths of 16 feet below ground surface (bgs), collecting representative soil and grab groundwater samples, and characterizing the soil and groundwater for gasoline constituents in the vicinity of the two former gasoline underground storage tanks (USTs) and one existing formaldehyde UST.

2.0 BACKGROUND

During preparation of a Phase I Environmental Site Assessment, ACC identified two former gasoline USTs and product dispensers and one formaldehyde UST at the Site. UST locations are illustrated on Figure 2. The gasoline USTs were apparently last used in the early 1980's and the formaldehyde UST was last used in the late 1980's. No records of gasoline UST removal were found but the formaldehyde UST was investigated and found to contain approximately 500 gallons of a water/formaldehyde mixture.

ACC contracted with DCM Construction, Inc. (DCM) of Dublin, California, to excavate in the vicinity of the two former, gasoline USTs and break the concrete around the formaldehyde UST. These activities were intended to verify that the gasoline USTs had been removed and to facilitate closing the formaldehyde UST in-place under permit with the OFSA. Exploratory excavation at gasoline UST T1 revealed broken and cut product and vent lines and engineered fill where soils should have been native silts and clays. Exploratory excavation at gasoline UST T2 was inconclusive. ACC then contracted with a GeoTech Utility Locating (GeoTech), of El Cerrito, California, a subsurface utility locating firm, to scan the area of the suspect USTs, especially UST 2. The results of a subsurface magnetometer survey were more conclusive and indicated that no metallic anomalies were located in the area of the former gasoline UST's.

The formaldehyde UST fill port was uncovered to confirm the tank type and orientation. ACC sampled the contents of the formaldehyde UST and confirmed that no solvents or elevated metals were present in the liquid. The Client tested the UST contents in-house and further confirmed that the liquid in the UST contained a weak water / formaldehyde mixture.

3.0 FIELD PROCEDURES

On September 16, 2002, ACC advanced eight exploratory soil borings (designated B1 through B8) at select locations adjacent to the UST's. The locations of the borings were marked with white paint and Underground Service Alert was notified at least 48 hours prior to commencing work. A soil boring permit was obtained form Alameda County Public Works Agency.

The eight exploratory soil borings were advanced by continuously coring with a four-feet long, hydraulically-driven, hollow-stem Geoprobe® sampling tool equipped with 2-inch inside-diameter clear acetate liners. Soil borings B1 and B2 were advanced adjacent to and on each side of former gasoline UST T1. Soil borings B3 (also designated T1-Disp) was advanced at the former dispenser for UST T1. Soil borings B4 and B5 were advanced adjacent to and on two sides of former gasoline UST T2. Soil boring B6 was advanced at the midpoint between former UST T2 and its former product dispenser located inside the existing building. Finally, soil borings B7 and B8 were advanced directly adjacent to the formaldehyde UST as close as physical parameters allowed.

The sampling probe and rods were cleaned prior to use and between sample drives by washing them with a trisodium phosphate and potable water solution, a potable water rinse, and distilled water rinse. Upon removal from the sampler, each recovered soil core was visually inspected and logged. The sample intervals were primarily logged to determine relative permeability and evaluate migration potential through the medium.

Grab groundwater samples were collected in soil borings B1, B4, and B7 by advancing a Geoprobe® sampling tool equipped with a clean, four-foot-long stainless steel screen. When the probe was advanced to approximately 20 feet bgs, the external sampling probe was pulled upwards four feet to expose the internal screen to the water-bearing formation. A grab groundwater sample was then retrieved through the rods with either a pre-cleaned stainless steel bailer or clean polyethylene tubing equipped with a checkvalve. Grab groundwater samples were collected in 40-milliliter VOA vials without headspace. Following collection, the vials were labeled, placed in a pre-chilled insulated container, and then transported to STL San Francisco (STL-SF), a state-certified laboratory, for analysis.

Drilling was performed under the direction of a Registered Geologist, and the surface materials in the borings were identified using visual and manual methods. Soils in each soil boring were logged and classified during drilling operations according to the Unified Soil Classification System (USCS). Lithologic logs of the soil borings are included as Appendix 1. Following drilling and sample collection, each boring location was abandoned with neat cement to just below the surface (2 to 3 inches). The surface of each boring location was completed with concrete to grade and colored to match the surrounding material.

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4.0 FINDINGS

4.1 Subsurface Conditions

The concrete and/or asphalt pavement was underlain by approximately 3 to 6 inches of sand and/or gravel baserock. Subsurface soil conditions were generally consistent across the Site. In general, soils consisted of uniform silty clay and clay to a depth of approximately 16 feet bgs. The fine-grained clays were generally dark olive green to olive gray, medium stiff, moderately to highly plastic, damp, and displayed low estimated permeability. At approximately 15 to 16 feet bgs, sand content began to increase with depth and a saturated SC clayey sand was observed in soil boring B1. This zone appears to be first-encountered groundwater.

All soil borings were continuously cored to better characterize the soils present. Soils were continuously logged and screened with a ppbRAE photoionization detector (PID). Some elevated PID readings, characteristic odors, and/or soil discoloration were noted during sampling activities. Additional details are included in the lithologic logs included in Appendix 1.

Fill materials presumably used during the backfill of the UST T1 excavation were observed in soil boring B1 and in the exploratory soil excavation nearby. Gravel drainrock was also observed in the exploratory soil excavation performed to trace product/vent lines identified between the former T1 dispenser location and former UST T1. The product/vent lines appeared to have been cut at the excavation boundary and were presumably bent back with a backhoe.

4.2 Analytical Results

Eleven soil samples and three grab groundwater samples were collected and analyzed for TPHg, BTEX, and MTBE. Soil sample analytical results are summarized in Table 1 and the grab groundwater sample results are summarized in Table 2. Copies of laboratory reports and chain of custody records are included in Appendix 2.

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TABLE 1 -SOIL ANALYTICAL RESULTS

(b)o)obees (b)ojeidki	inesee.	Bonzene	dictions	Eiliyl benzene	Total Žylenes	MEBE
B1-11.0	300	2.3	< 0.62	6.3	< 0.62	< 0.62
B1-15.0	410	5.5	9.3	9.6	43	<3.1
B2-8.0	26	< 0.62	< 0.62	1.0	1.7	< 0.62
B2-12.0	1,400	23	70	48	230	< 6.2
B4-12.0	130	< 0.62	< 0.62	3.3	2.4	< 0.62
B4-16.0	<1.0	< 0.0050	< 0.0050	< 0.0050	< 0.0050	< 0.0050
B6-5.0	110	1.6	< 0.62	2.3	9.0	< 0.62
B5-8.0	870	< 6.2	<6.2	< 6.2	<6.2	<6.2
B5-12.0	180	< 0.62	< 0.62	1.4	< 0.62	< 0.62
T1 DISP- 2.5	370	< 6.2	< 6.2	13	47	<6.2
T1 DISP- 5.0	80	< 0.62	< 0.62	1.2	< 0.62	< 0.62

Notes: All results reported in milligrams per kilogram (mg/kg), approximately equal to parts per million (ppm) < Sample tested below the laboratory minimum detection limit indicated

TABLE 2 – WATER ANALYTICAL RESULTS

Samilate IID)	រប្រមន្ត្រ	Benzene Benzene	Toluene	Ethyl- benzene:	Total Xylenes	MIBE
B1 -W	8,600	1,100	340	730	390	<10
B4 -W	17,000	120	10	850	330	<10
B7 -W	< 50	< 0.50	< 0.50	< 0.50	<1.0	1.8

Notes: All results reported in micrograms per liter (µg/L), approximately equal to parts per billion (ppb) < Sample tested below the laboratory minimum detection limit indicated

5.0 DISCUSSION

After confirming that the gasoline USTs had been removed and that no constituents of concern were stored in the formaldehyde UST, ACC advanced two exploratory soil borings at each former gasoline UST location to collect representative soil samples and one grab groundwater sample from first-encountered groundwater. Soil borings were also advanced beneath the former outside product dispenser, at the midpoint of the product lines between former gasoline UST T2 and its product dispenser, and adjacent to the formaldehyde UST. The general intent was to collect data about current subsurface conditions to facilitate closure of the facility.

Specific goals of this subsurface investigation were to: 1) characterize soil and groundwater conditions beneath the USTs formerly located at the subject site; 2) obtain data regarding suspect residual concentrations of gasoline constituents in soil and groundwater; 3) evaluate residual gasoline constituent concentrations in regards to potential human health and ecological risk; and 4) prepare and submit a report of findings to the OFSA for review and approval.

Based on ACC's experience with other subsurface investigations in this geographic region, we believe that subsurface soil and groundwater conditions have been adequately characterized. While the horizontal extent of impact in soil and groundwater has not been fully defined, the extent of impact can be estimated with a high degree of confidence. UST releases in subsurface conditions like those reported at the subject site tend to be highly localized, decrease readily through passive natural attenuation processes, and typically do not demonstrate an unacceptable risk to human health or the environment. Volatilization in air, the most common form of potential exposure, is minimal due to the location of the former USTs in the parking lot, fine grained soils at the Site, and the age of the former release. Contact with residual hydrocarbons in soil, the second most likely potential exposure, is also minimal due to the depth and relatively small volume of impacted soil.

5.1 Soil

Exploratory soil borings revealed that soils at the Site consist of fine-grained silts and clays from the surface to approximately 15 to 16 feet bgs. These soils typically limit the migration potential of released total petroleum hydrocarbons (TPH) due to their adsorption to the soil matrix and the low soil permeability. Based on the findings of exploratory soil excavation and accurately mapping the former UST locations from a scaled site plan, ACC believes that the exploratory soil borings advanced were correctly placed directly adjacent to the former USTs, product pipelines, and product dispenser. Therefore, ACC estimates that the sample analyses of soil and grab groundwater samples collected in the soil borings are indicative of worst-case conditions, with any residual TPH concentrations decreasing dramatically over horizontal distance. Residual TPH was identified primarily in soil from 8 to 15 feet bgs. Some TPH-impacted soil was identified in soil borings B3 (T1-Disp) and B6, but these impacts were relatively minor and decreased significantly with vertical distance.

Due to the fact that formaldehyde naturally breaks down into benign by-products and that the formaldehyde UST was observed to have a water / formaldehyde mixture present, this UST is considered to pose a low potential human health risk even if an unauthorized release did occur.

5.2 Water

First-encountered groundwater was logged in poor quality clayey sands at approximately 16 feet bgs. Grab groundwater sample analytical results indicate that water is being impacted by residual TPH in soil at each former UST location. However, based on the relatively low BTEX to TPHg ratios and the approximate age of the former USTs, weathering is occurring and BTEX is likely being preferentially degraded by natural attenuation processes.

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ACC reviewed topographic contours on the San Leandro Quadrangle and estimates the regional groundwater flow direction to be northwest. A grab groundwater sample collected in soil boring B7 located north of USTs T1 and T2 reported only 1.8 ppb MTBE. While the location of soil boring B7 is somewhat crossgradient of the USTs, migration in groundwater in this area is typically defined more by diffusion than groundwater flow direction. As such, the analytical results reported in the grab groundwater sample collected from soil boring B7 likely approximate the horizontal extent of residual TPH impact in groundwater.

5.3 Formaldehyde UST

Based on first-hand historical accounts and analytical testing of residual contents of the formaldehyde UST, ACC confirmed that the UST only stored formaldehyde. The tank was emptied and rinsed in October 2002, and is currently empty pending OFSA approval to abandon in-place under permit. ACC continuously cored two exploratory soil borings approximately two the four feet from the UST to depths of 12 to 16 feet bgs. The formaldehyde UST is set in uniform, plastic clay and situated approximately five to six feet above groundwater. During logging and sampling activities, ACC did not note any indications of soil impact such as characteristic formaldehyde odor, elevated PID readings, or soil discoloration. ACC collected a grab groundwater sample in soil boring B7 and analyzed it for gasoline constituents due to its estimated downgradient location from the former gasoline USTs. Grab groundwater sample B7-W reported only 1.8 ppb MTBE.

Research indicates that formaldehyde degrades into formic acid and carbon monoxide. These breakdown products are relatively benign and short-lived and do not pose an undue risk to the environment. According to the attached fact sheet on formaldehyde, prepared by the Center for Disease Control, Agency for Toxic Substances and Disease Registry, formaldehyde breaks down readily when introduced to the environment and is not a potential constituent of concern.

6.0 CONCLUSIONS

Based on findings of this investigation, analytical results, and field observations, ACC has made the following conclusions regarding soil and groundwater conditions at the site:

- Residual TPH impacts are present in fine-grained soils primarily below 8 feet bgs but these TPH impacts appear to be degraded and BTEX concentrations are relatively low;
- Residual TPH impacts are present in first encountered groundwater at 16 feet bgs but these TPH impacts are likely localized to the vicinity of the two former gasoline USTs;
- Identified residual TPH impacts in soil present no significant potential human health risk due to the their depth in fine grained soils, the estimated small volume of impacted soil, and the relatively low to non-detectable concentrations of benzene;

Identified residual TPH impacts in groundwater present no significant potential human health risk due to its location in relatively shallow groundwater on a commercial facility, the lack of any potential downgradient or onsite receptors, the estimated small volume of impacted groundwater, and the relatively low to non-detectable concentrations of benzene:

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- Identified residual TPH impacts in soil and groundwater present no significant potential ecological risk due to its location on a commercial facility, the low TPH migration potential in the subsurface, the lack of any nearby surface water bodies, and the relatively low to nondetectable concentrations of constituents of concern away from the two former USTs as potential sources;
- ACC believes that the location, degree, and extent of TPH impacts in the subsurface does not justify remedial soil and/or groundwater removal;
- No indication of subsurface impact was noted in soil borings B7 and B8 and formaldehyde is not a constituent of concern in the environment;
- Residual TPH concentrations will likely continue to decrease through natural attenuation processes.

7.0 RECOMMENDATIONS

Since property use will remain commercial to light industrial for the foreseeable future, and the likelihood is very low that residual TPH impacts would be encountered during site development. ACC recommends that the Client request no further action in regards to the former USTs and regulatory case closure from the OFSA.

If regulatory closure cannot be approved at this time, we recommend meeting with the OFSA to discuss the technical merits of this case. In addition, we recommend determining if OFSA will require any deed notifications prior to approving regulatory closure

8.0 REQUEST FOR REGULATORY CLOSURE

On behalf of the property owner, Fleischmann's Yeast, ACC requests that the site be evaluated for regulatory site closure as a low-risk groundwater case based on the following:

- 1) No significant residual source exists in soil and groundwater and the plume of impacted groundwater appears to be localized to the immediate vicinity of the two former USTs:
- 2) Natural attenuation processes will likely continue to decrease residual TPH concentrations in soil and groundwater;
- 3) Any additional risk evaluation would likely demonstrate that no unacceptable human health risk exists and would exist under most potential receptor scenarios;

- 4) The first encountered water bearing zone is not a current, or likely future source of potable water;
- 5) No water wells, deeper drinking water aquifers, surface water, or other sensitive receptors are likely to be impacted by this release, nor likely to be impacted in the future;
- 6) The site presents no significant risk to the environment due to the low to nondetectable concentrations of benzene; and
- 7) The site is a commercial/industrial operation and will likely remain so in the foreseeable future.

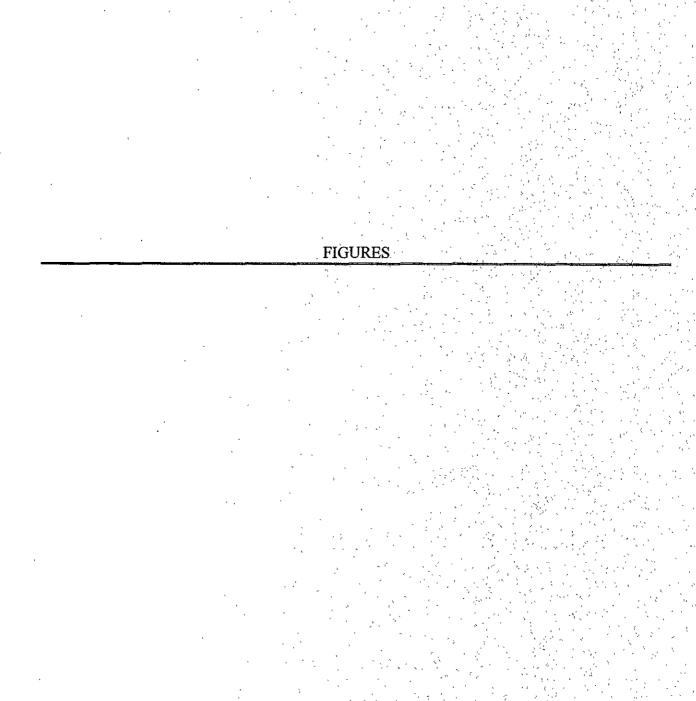
ACC Project Number: 6725-001.01 Page 9

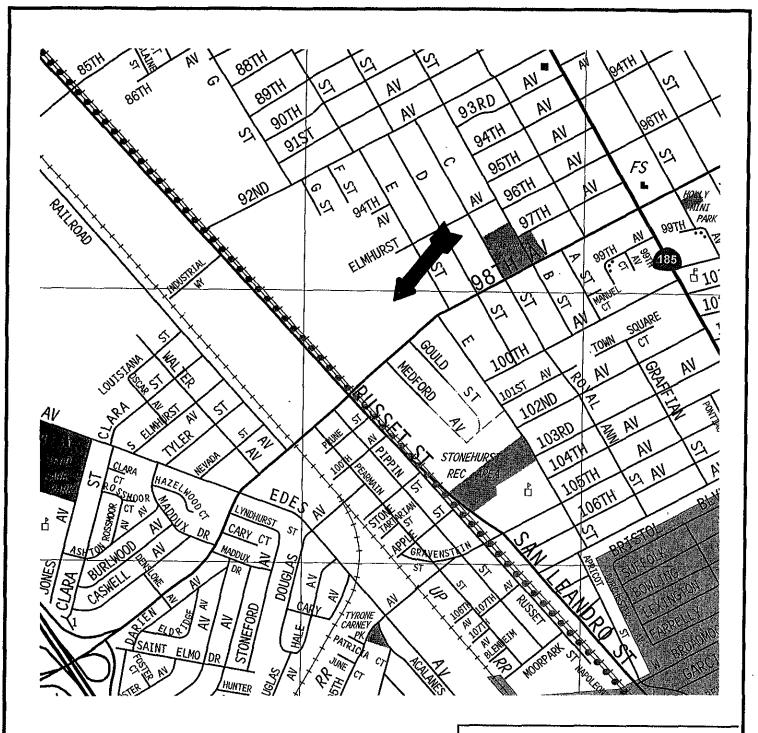
9.0 LIMITATIONS

The service performed by ACC has been conducted in a manner consistent with the levels of care and skill ordinarily exercised by members of our profession currently practicing under similar conditions in the area. No other warranty, expressed or implied, is made.

The conclusions presented in this report are professional opinions based on the indicated data described in this report and applicable regulations and guidelines currently in place. They are intended only for the purpose, site, and project indicated. Opinions and recommendations presented herein apply to site conditions existing at the time of our study.

ACC has included analytical results from a state-certified laboratory, which performs analyses according to procedures suggested by the U.S. Environmental Protection Agency and the State of California. ACC is not responsible for laboratory errors in procedure or result reporting.

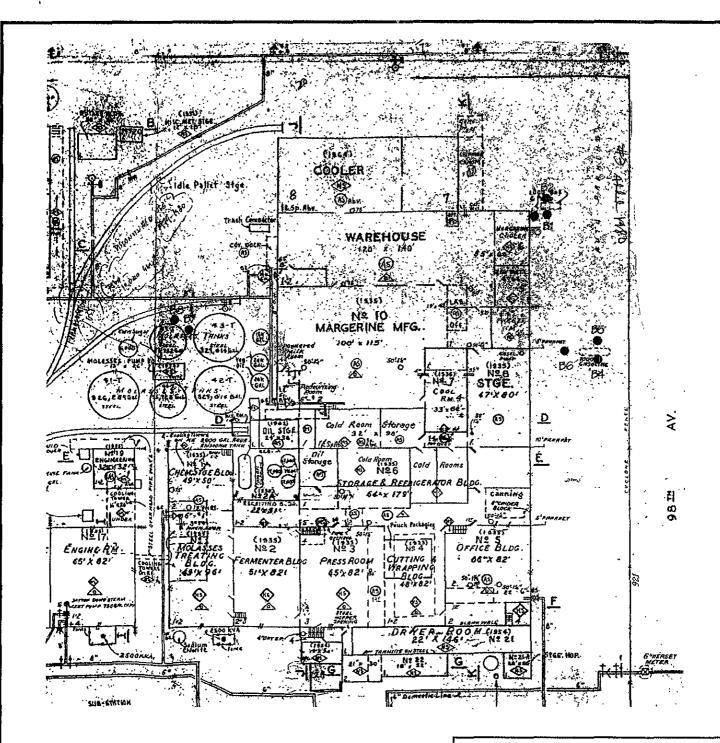




Source: The Thomas Guide, Bay Area 2002

Title: Location Map 921 98th Avenue Oakland, California

Figure Number: 1	Scale: None
Project No.: 6725-001.01	Drawn By: EJG
A . C . C	Date: 1/8/03
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ENVIRONMENTAL CONSULTANTS	<u> </u>
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7977 Capwell Drive, Sulte 100 Oakland, California 94621	$oldsymbol{ec{\gamma}}$
(510) 638-8400 Fax: (510) 638-8404	s



LEGEND

Approximate Boring Location

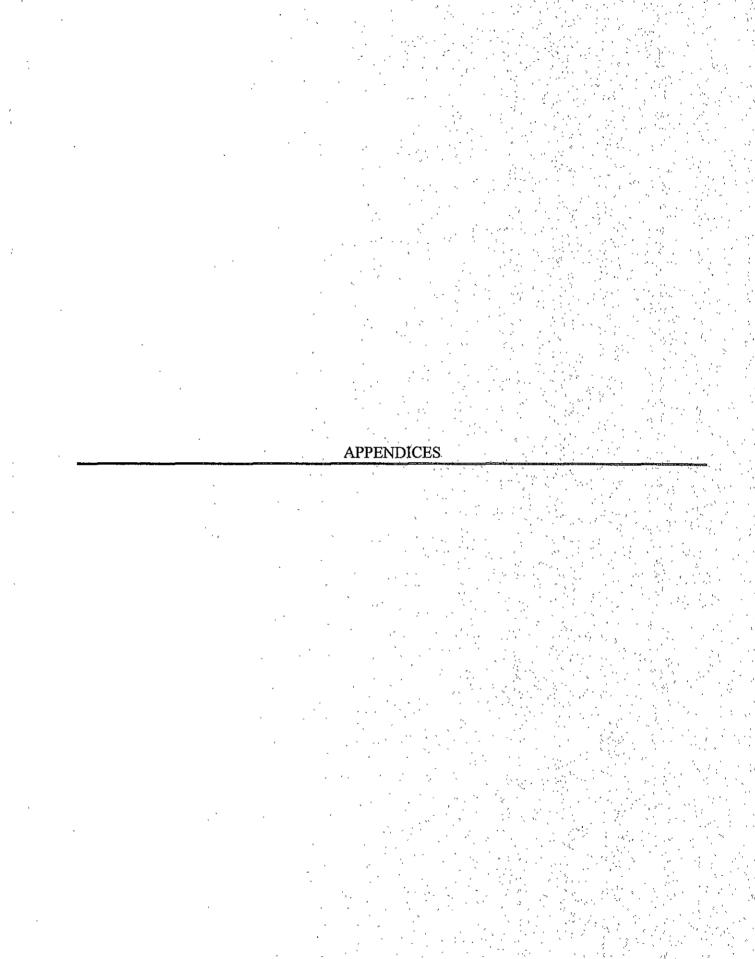
Underground Storage Tank
(Approximate Location)

Title: Site Plan 921 98th Avenue Oakland, California

Figure Number: 2	Scale: None		
Project No.: 6725-001.01	Drawn By: EJG		
A . C . C	Date: 1/8/03		
ENVIRONMENTAL	<i>≥ A</i>		

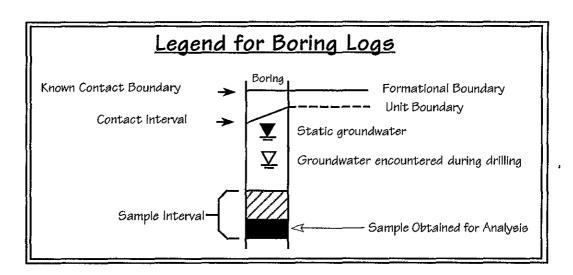
CONSULTANTS

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Oakland, California 94621
(510) 638-8400 Fax: (510) 638-8404



UNIFIED SOIL CLASSIFICATION SYSTEM

	MAJOR DIV	ISIONS		TYPICAL NAMES
	GRAVELS	CLEAN GRAVELS WITH LITTLE OR	GW	well graded gravels, gravel-sand mixtures
	more than half	NO FINES	GP	poorly graded gravels, gravel-sand mixtures
oll.S sieve	coarse fraction is larger than No. 4	GRAVELS WITH	GM	ellty gravels, poorly graded gravel-sand
NED SC #200	sleve	OVER 12% FINES	GC	clayey gravels, poorly graded gravel-sand clay mixtures
E GRAI	SANDS	CLEAN SANDS WITH	5W	well graded sands, gravelly sands
20ARG 17 tha	SANDS Sieve SANDS SANDS SANDS More than half coarse fraction is smaller than No. 4 sieve	LITTLE OR NO FINES	SP	poorly graded sands, gravelly sands
) e		SANDS WITH OVER	эм	silty sands, poorly graded sand-silt mixtures
		12% FINES	sc	clayey sands, poorly graded sand-clay mixtures
e	SILTS AND CLAYS		ML	inorg. silts and v.fine sands, rock flour silty or clayey sands, or clayey silts w/si. plasticity
301L5 20 siev	liquid limit less than 50		ÇL	inorg. clays of low-med plasticity, gravelly clays, sandy clays, silty clays, lean clays
FINE GRAINED SOILS than half < #200 sie			OL	organic clays and organic silty clays of low plasticity
FINE GRAIN e than half	SILTS AND CL	AVG	мн	inorganic silty, micaceous or diatomacious fine sandy or silty soils, elastic silts
FIN more th	liquid limit greater tha		СН	inorganic clays of high plasticity, fat clays
} E	, C		он	organic clays of medium to high plasticity organic silts
	HIGHLY ORGANIC SC	DILS	PT	peat and other highly organic solls



ACC Environmental Consultants, Inc.

7977 Capwell Drive, Suite 100 Oakland, California 94621 (510) 638-8400 Fax: (510) 638-8404 Site:

SUBJECT SITE 921 98th Street Oakland, California Project No. 02-6725-001.01

Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	(mdd) Old	SAMPLI (ft	LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 t) BORING: B1
5Y-3/2		0 2	Clay (CL), dark olive green to dark gray, medium stiff,
2.5Y-4/4	73	4	Sand (SP), olive green, very fine to medium grained, moderately well sorted, trace fines, uniform, loose, damp, slight gasoline odor and soil discoloration (interpreted as fill)
5Y-4/4	200+	8	plastic, damp, very slight gasoline odor
10YR-3/3	B1-11.	12	stiff, highly plastic, massive, very slight gasoline odor, discoloration along soil fractures, moist Clayey Sand (SC), olive brown, medium dense, highly plastic, 10-30% fines, fine to medium gradined sand, saturated TOTAL DEPTH OF BORING: 16 feet bgs
		— 22 — 24	
		- 28	
ACC Environmental Consultants, Inc.			ct No: Title: LOG OF BORING B1
7977 Capwell Drive, Su Oakland, California 9 (510)638-8400 FAX: (510	4621		Subject Property 921 98th Street

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Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B2
5Y-3/2				0 2	Asphalt pavement (3" thick) over gravel and sand Clayey Silt (ML), dark gray brown, medium stiff, uniform slightly to moderately plastic, damp
2.5Y-4/4	32			— 4 — — 6 —	Clay (CL), dark olive brown, medium stiff, moderately plastic, massive, very slight gasoline odor, trace root holes and soll fractures, damp-moist
5Y-4/4	41	B2-8.0		8 10	Clay (CL), olive brown, medlum etiff to etiff, highly plaetic, damp, very elight gasoline odor
10YR-3/3	200	 + B2-12.0		12 -	TOTAL DEPTH OF BORING: 12 feet bgs
				— 14 <i>-</i> — 16 <i>-</i>	
				—18 —	
				— 20 -	
				— 22 - — 24 -	
				- 26 -	
				28 -	
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100		6	Project N 8 725-00 1	1.01 1000 OF DOKING DZ	
0akland, California 9 (510)638-8400 FAX: (510	462	.1	Da	te: 10/28	Subject Property 921 98th Street Oakland, California

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Soil Color <u>Color Code</u> (Munsell Soll Color Chart)	PID (mdd) OIA	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B3 (At Tank T1 dispenser)
10YR-5/3 5Y-4/4	200 42	}+ ВЗ-5.0		2 	Asphalt pavement (3" thick) over gravel and sand Silty Clay (CL), brown-olive brown, medium stiff, moderately plastic, massive, very slight gasoline odor, olive discoloration along soil fractures, damp
				6 8	TOTAL DEPTH OF BORING: 5 feet bgs
				10 12	
				14 16 18	
				20 - 22 -	
				24 - 26 -	
				28 -	
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621		Project No: 6725-001.01			
		(510)638-8400 FAX: (510)638-8404		te: 10/28/	O2 Oakland, California

Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B4
10YR-5/3				_ 0 _ _ 2 _	Asphalt pavement (3" thick) over gravel and sand Silty Clay (CL), brown-olive brown, medium stiff, moderately plastic, massive, uniform, damp
5Y-3/2	22			— 4 — — 6 —	Clay with sand (CL), olive green, medium stiff, slightly to moderately plastic, 5-15% very fine to fine grained disseminated sand, damp to moist
	4.8	B4-8.0		8 10	Clay (CL), dark olive green, medium stiff to stiff, highly plastic, damp, very slight gasoline odor
5Y-4/4	197	B4-12.0		<u> </u>	Clay (CL), dark olive green-dark brown, as above
	6.8	B4-16.0		— 14 - — 16 ▽	Clay (CL), as above, sand content increasing with depth TOTAL DEPTH OF BORING: 16 feet bgs
				18 - 20 -	
				— 22 -	
				24 -	
		į		 26 -	
				28 -	
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100				Project N 6 725-001	O1 Subject Property
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Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B5
10YR-5/3				- 0 - - 2 -	Asphalt pavement (3" thick) over gravel and sand Silty Clay (CL), brown-olive brown, medium stiff, moderately plastic, massive, uniform, damp
5Y-3/2	2.1	·		- 4 -	Clay with sand (CL), olive green, medium stiff, slightly to moderately plastic, 5-15% very fine to fine grained disseminated sand, damp to moist
	200	+ B5-8.0		— 6 — — 8 —	Clay (CL), dark ollve green, medium etiff to etiff, highly plastic, damp, very elight gasoline odor
5Y-4/4	200	+ B5-12.0		10 12	Clay (CL), dark olive green-dark brown, as above
				14	TOTAL DEPTH OF BORING: 12 feet bge
				16	
				18	
		•		20 -	
				22 -	
				24 - 26 -	
				28 -	
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100				Project N 6 725-001	
0akland, California 9 (510)638-8400 FAX: (510	462	1	Da	te: 10/28 /	921 98th Street

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Soil Color <u>Color Code</u> (Munsell Soll Color Chart)	P1D (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B6 (At midpoint to dispenser)
10YR-5/3 5Y-4/4	182	B6-5.0		— 2 — — 4 —	Asphalt pavement (3" thick) over gravel and sand Silty Clay (CL), brown-olive brown, medium stiff, moderately plastic, massive, very slight gasoline odor, olive discoloration along soil fractures, damp
				- 6 - - 8 -	TOTAL DEPTH OF BORING: 5 feet bgs
				— 10 — — 12 — — 14 —	
				— 16 – — 18 –	
		i		—20 - —22 -	
				— 24 — — 26 —	
ACC Environmental Cause	 	·a lus		- 28 - Project N	2:
ACC Environmental Consultants, Inc. 7977 Capwell Drive, Suite 100 Oakland, California 94621 (510)638-8400 FAX: (510)638-8404				5725-001 te: 10/28	O1 Subject Property 921 98th Street

``

Soil Color Color Code (Munsell Soil Color Chart)	P1D (mdd)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B7
5Y-4/4				0 —	Concrete pavement (3" thick) over gravel and sand Silty Clay (CL), dark olive green to olive brown, medium stiff, moderately plastic, uniform, no odor or soil dis-
	0.2			2 —	coloration, trace very fine to fine grained gravel, damp
				4 -	Silty Clay (CL), as above
	0.1			6 -	
2.5Y-4/4	0.1			8 -	Clay (CL), olive green with some brown mottling, medium stiff, medium to highly plastic, damp
2	O.1			— 10 —	
	0.1			12	Clay (CL), as above
	0.2			14	
	0.2		///	_ 16 \	TOTAL DEPTH OF BORING: 16 feet bgs
				18	
				<u> </u>	
				-22 -	
				24 -	
				— 26 -	
				28 -	
				<u> </u>	
ACC Environmental Consu 7977 Capwell Drive, Su	ite 10	00	(Project N 8 725-001	1.01 Subject Property
0akland, California 9 (510)638-8400 FAX: (510			Da	t <i>e</i> : 10/28	921 98th Street

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Soil Color <u>Color Code</u> (Munsell Soil Color Chart)	PID (ppm)	SAMPLE ID	SAMPLE INTERVAL	depth below ground surface (ft)	EQUIPMENT: Truck-Mounted Hydraulic Geoprobe OPERATED BY: ACC Environmental Consultants LOGGED BY: David DeMent LOCATION: 921 98th Street, Oakland, CA WORK DATE: 9/16/02 BORING: B8
2.5Y-N3/	0.1			_ 0	Concrete pavement (3" thick) over gravel and sand Silty Clay (CL), dark gray, medium stiff, moderately plastic, uniform, no odor or soil discoloration, trace very fine to fine grained gravel, damp
	0.2			-4 -	Silty Clay (CL), as above
5Y-4/4	O.1 O.1			- 6 - - 8 -	Clay (CL), olive green with some brown mottling, medium stiff, medium to highly plastic, damp
	 O.1			— 12 –	Clay (CL), as above TOTAL DEPTH OF BORING: 12 feet bgs
	[] ! ! !			14 <i>-</i> -	
	 			 18 -	
				— 20 - — 22 -	
				- 24 -	
				— 26 -	
				28	
ACC Environmental Consu 7977 Capwell Drive, Su Oakland, California S	ite 1	00	(Project N 6 725-001	Subject Property
(510)638-8400 FAX: (510			Da	te: 10/28	921 98th Street Oakland, California

.



STL San Francisco 1220 Quarry Ln Pleasanton CA 94566

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CA DHS ELAP#:2496

ACC Environmental Consultants

7977 Capwell Drive, Suite 100 Oakland, CA 94621

Submission#: 2002-09-0375

Attn.:

Dave DeMent

Project#: 6725-001.01

Project:

Fleischman's 921 98TH

Dear Mr. DeMent,

Attached is our report for your samples received on 09/17/2002 13:51 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 11/01/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil

Project Manager

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

Fleischman's 921 98TH

SEVERN
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LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
B4-16.0	09/16/2002 09:25	Soil	9

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

Fleischman's 921 98TH

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CA DHS ELAP# 2496

Prep(s):	5035		Test(s)) 8015M
	5035		
Sample ID:	B4-16.0		Lab ID: 2002-09-0375-9
Sampled:	09/16/2002 09:	25	Extracted 9/27/2002 15 12

Received: 09/17/2002 13:51

Matrix: Soil QC Batch#: 2002/09/27-01:03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	09/27/2002 15:12	
Benzene	ND	0.0050	mg/Kg	1.00	09/27/2002 15:12	
Toluene	ND	0.0050	mg/Kg	1.00	09/27/2002 15:12	
Ethyl benzene	ND	0.0050	mg/Kg	1.00	09/27/2002 15:12	
Xylene(s)	ND	0.0050	mg/Kg	1.00	09/27/2002 15:12	
MTBE	ND	0.0050	mg/Kg	1.00	09/27/2002 15:12	
Surrogates(s)						
Trifluorotoluene	112.8	53-125	%	1.00	09/27/2002 15:12	
4-Bromofluorobenzene-FID	92.1	58-124	%	1.00	09/27/2002 15:12	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Dave DeMent

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

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CA DHS ELAP# 2496

44. 1	C385-0	nin So		A 3505	. 7. 10.00	2,125
	tch	130	10000		\sim	100
20.7	11.0	38	1010	1.6	12.12	1000
A1000 A100	o=0.0000	A1500	12526323	عصر بمدنته	Property.	a charges o

Received: 09/17/2002 13:51

Prep(s): 5035 Method Blank

MB: 2002/09/27-01.03-004

Soil

Test(s): 8015M QC Batch # 2002/09/27-01.03

Date Extracted: 09/27/2002 09:37

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	09/27/2002 09:37	
Benzene	ND	0.0050	mg/Kg	09/27/2002 09:37	
Toluene	ND	0.0050	mg/Kg	09/27/2002 09:37	
Ethyl benzene	ND	0.0050	mg/Kg	09/27/2002 09:37	
Xylene(s)	ND	0.0050	mg/Kg	09/27/2002 09:37	
MTBE	ND	0.0050	mg/Kg	09/27/2002 09:37	
Surrogates(s)					
Trifluorotoluene	112.0	53-125	%	09/27/2002 09:37	
4-Bromofluorobenzene-FID	96.8	58-124	%	09/27/2002 09:37	

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

Attn.: Dave DeMent

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Project: 6725-001.01

Fleischman's 921 98TH

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CA DHS ELAP# 2496

	Batch QC Report
Prep(s): 5035	Test(s): 8021B
, , , , , , , , , , , , , , , , , , , ,	
Laboratory Control Spike	Soil QC Batch # 2002/09/27-01.03
LCS 2002/09/27-01.03	-005 Extracted: 09/27/2002 Analyzed: 09/27/2002 10:08
LCSD 2002/09/27-01:03	-006 Extracted: 09/27/2002 Analyzed: 09/27/2002 10:40

Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Fla	ags
Compound	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene Ethyl benzene Xylene(s)	0.0994 0.100 0.104 0.299	0.0944 0.0958 0.100 0.292	0.1000 0.1000 0.1000 0.300	99.4 100.0 104.0 99.7	94.4 95.8 100.0 97.3	5.2 4.3 3.9 2.4	77-123 78-122 70-130 75-125	35 35 35 35		
Surrogates(s) Trifluorotoluene	543	521	500	108.6	104.2		53-125			

Gas/BTEX Compounds by 8015M/8021

ACC Environmental Consultants

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Project: 6725-001.01

Fleischman's 921 98TH

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CA DHS ELAP# 2496

			Batch QC Report
Prep(s):	5035	3, 200	Test(s): 80/15M
Laborat	tory Control Spike	; *	Goil QC Batch # 2002/09/27-01 03
LCS	2002/09/27-01.03-00		Extracted: 09/27/2002 Analyzed: 09/27/2002 11.11
LCSD	2002/09/27-01:03-00	3	Extracted: 09/27/2002 Analyzed: 09/27/2002 11:42

Compound	Conc. mg/Kg		Exp.Conc.	Recovery		RPD	Ctrl.Limits %		Flags	
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Gasoline	0.549	0.532	0.500	109.8	106.4	3.1	75-125	35		
Surrogates(s) 4-Bromofluorobenzene-FID	451	434	500	90.2	86.8		58-124			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Project: 6725-001.01

Fleischman's 921 98TH

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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sam	pled between 1.1. Law Law Matrix 2.14	Ľáb#
B1-W	09/16/2002	08:10 Water	17
B4-W	09/16/2002	09:30 Water	18
B7-W	09/16/2002	11:10 Water	19

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030B Test(s) 8260B

Sample ID: B1-W 2002-09-0375 - 17

Analysis Flag: o (See Legend and Note Section)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	8600	1000	ug/L	20.00	09/30/2002 15:55	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	09/30/2002 15:55	
Benzene	1100	10	ug/L	20.00	09/30/2002 15:55	
Toluene	340	10	ug/L	20.00	09/30/2002 15:55	
Ethylbenzene	730	10	ug/L	20.00	09/30/2002 15:55	
Total xylenes	390	20	ug/L	20.00	09/30/2002 15:55	
Surrogates(s)		-				
1,2-Dichloroethane-d4	104.2	76-114	%	20.00	09/30/2002 15:55	
Toluene-d8	99.4	88-110	%	20.00	09/30/2002 15:55	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Project: 6725-001.01

Fleischman's 921 98TH

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CA DHS ELAP# 2496

Prep(s): 5030B Test(s): 8260B

Sample ID: B4-W Lab ID 2002-09-0375 - 18

Sampled: 09/16/2002 09:30 Extracted: 9/30/2002 14:06

Matrix: Water QC Batch# 2002/09/30 01:62

Analysis Flag: o (See Legend and Note Section 1)

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	17000	1000	ug/L	20.00	09/30/2002 14:06	
Methyl tert-butyl ether (MTBE)	ND	10	ug/L	20.00	09/30/2002 14:06	
Benzene	120	10	ug/L	20.00	09/30/2002 14:06	
Toluene	10	10	ug/L	20.00	09/30/2002 14:06	
Ethylbenzene	850	10	ug/L	20.00	09/30/2002 14:06	
Total xylenes	330	20	ug/L	20.00	09/30/2002 14:06	
Surrogates(s)]]			
1,2-Dichloroethane-d4	79.2	76-114	%	20.00	09/30/2002 14:06	
Toluene-d8	99.9	88-110	%	20.00	09/30/2002 14:06	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Project: 6725-001.01

Fleischman's 921 98TH

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CA DHS ELAP# 2496

Prep(s): 5030B

Sample ID: B7-W

Sampled: 09/16/2002 11:10

Matrix: Water Test(s): 8260B

Lab ID:

2002-09-0375 - 19

Extracted:

Received: 09/17/2002 13:51

9/30/2002 13:44

QC Batch#:

2002/09/30-01.62

Compound	Conc.	RL	Unit	Dilution	Analyzed _	Flag
Gasoline	ND	50	ug/L	1.00	09/30/2002 13:44	
Methyl tert-butyl ether (MTBE)	1.8	0.50	lug/L	1.00	09/30/2002 13:44	
Benzene	ND	0.50	ug/L	1.00	09/30/2002 13:44	
Toluene	ND	0.50	ug/L	1.00	09/30/2002 13:44	
Ethylbenzene	ND	0.50	ug/L	1.00	09/30/2002 13:44	
Total xylenes	ND	1.0	ug/L	1.00	09/30/2002 13:44	
Surrogates(s)						
1,2-Dichloroethane-d4	84.7	76-114	%	1.00	09/30/2002 13:44	
Toluene-d8	99.3	88-110	%	1.00	09/30/2002 13:44	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

Fleischman's 921 98TH

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

,,,	Batch OC Report
Prep(s): 5030B Method Blank MB: 2002/09/30-01.62-050	Test(s): 8260B Water QC Batch # 2002/09/30-01.62 Date Extracted: 09/30/2002 11.11

Compound	Conc.	RL	Unit _	Analyzed	Flag
Gasoline	ND	50	ug/L	09/30/2002 11:11	-
Methyl tert-butyl ether (MTBE)	ND	0.5	ug/L	09/30/2002 11:11	
Benzene	ND	0.5	ug/L	09/30/2002 11:11	ı
Toluene	ND	0.5	ug/L	09/30/2002 11:11	
Ethylbenzene	ND	0.5	ug/L	09/30/2002 11:11	
Total xylenes	ND	1.0	ug/L	09/30/2002 11:11	
Surrogates(s)		1	}		
1,2-Dichloroethane-d4	82.4	76-114	%	09/30/2002 11:11	
Toluene-d8	97.6	88-110	%	09/30/2002 11:11	

Fuel Oxygenates by 8260B

ACC Environmental Consultants

Attn.: Dave DeMent

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Oakland, CA 94621

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Project: 6725-001.01

Fleischman's 921 98TH

SEVERN TRENT LABORATORY

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CA DHS ELAP# 2496

	(1, 2, 2, 4), 2, 4	
*		Batch OC Report
Prep(s):	รกรกล	Test(s): 8260FAB
ricp(s).	, · · · ·	
Laborat	ory Control Spike	Water QC Batch # 2002/09/30-01.62
LCS	2002/09/30-01.62-028	Extracted: 09/30/2002 Analyzed: 09/30/2002 10:28
LCSD	2002/09/30-01,62-049	Extracted 09/30/2002 Analyzed 09/30/2002 10:49

Compound	Conc.	ug/L	Exp.Conc.	Re	covery	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS LCSD			LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene Methyl tert-butyl ether (MTBE)	20.2 23.2 22.4	20.0 24.0 21.0	25.0 25.0 25.0	80.8 92.8 89.6	80.0 96.0 84.0	1.0 3.4 6.5	69-129 70-130 65-165	20 20 20		
Surrogates(s) 1,2-Dichloroethane-d4 Toluene-d8	468 484	454 502	500 500	93.6 96.8	90.8 100.4		76-114 88-110			

Fuel Oxygenates by 8260B

ACC Environmental Consultants

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Fleischman's 921 98TH

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CA DH\$ ELAP# 2496

Legend and Notes

Analysis Flag

0

Reporting limits were raised due to high level of analyte present in the sample.

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

Fleischman's 921 98TH



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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
B1-11.0	09/16/2002 07:50	Soil	1
B1-15.0	09/16/2002 08:00	Soil	2
B2-8.0	09/16/2002 08:25	Soil	3
B2-12.0	09/16/2002 08:30	Soil	4
T1-DISP2.5	09/16/2002 07:50	Soil	5
B4-12.0	09/16/2002 09:20	Soil	8
B6-5.0	09/16/2002 10:10	Soil	10
B5-8.0	09/16/2002 09:50	Soil	11
B5-12.0	09/16/2002 09:55	Soil	12

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

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Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 6725-001.01

Fleischman's 921 98TH

SEVERN TRENT LABORATORY

STL San Francisco

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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Prep(s):

5030

Test(s):

Received: 09/17/2002 13:51

8015M

8021B

5030

Sample ID: **B1-11.0**

Lab ID:

2002-09-0375 - 1 9/23/2002 04:00

Sampled:

09/16/2002 07:50

Extracted:

Matrix:

Soil

QC Batch#: 2002/09/23-05.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	300	10	mg/Kg	1.00	09/24/2002 04:00	g
Benzene	2.3	0.62	mg/Kg	1.00	09/24/2002 04:00	
Toluene	ND	0.62	mg/Kg	1.00	09/24/2002 04:00	
Ethyl benzene	6.3	0.62	mg/Kg	1.00	09/24/2002 04:00	
Xylene(s)	ND	0.62	mg/Kg	1.00	09/24/2002 04:00	
MTBE	ND	0.62	mg/Kg	1.00	09/24/2002 04:00	
Surrogates(s)						
4-Bromofluorobenzene	101.0	58-124	%	1.00	09/24/2002 04:00	
4-Bromofluorobenzene-FID	131.0	58-124	%	1.00	09/24/2002 04:00	sh

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

Attn.: Dave DeMent

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Oakland, CA 94621

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Project: 6725-001.01

Fleischman's 921 98TH

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Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Prep(s): 5030 Test(s): 8015M 8021B

Sample ID: B1-15.0 2002:09-0375 - 2

Sampled: 09/16/2002 08:00 Extraofed: 9/23/2002 10:03

Matrix: Soil QC Batch# 2002/09/23-05 03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	410	50	mg/Kg	5.00	09/25/2002 10:03	
Benzene	5.5	3.1	mg/Kg	5.00	09/25/2002 10:03	
Toluene	9.3	3.1	mg/Kg	5.00	09/25/2002 10:03	
Ethyl benzene	9.6	3.1	mg/Kg	5.00	09/25/2002 10:03	
Xylene(s)	43	3.1	mg/Kg	5.00	09/25/2002 10:03	
MTBE	ND	3.1	mg/Kg	5.00	09/25/2002 10:03	
Surrogates(s)						
4-Bromofluorobenzene	105.0	58-124	%	1.00	09/25/2002 10:03	
4-Bromofluorobenzene-FID	110.0	58-124	%	1.00	09/25/2002 10:03	

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

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Project: 6725-001.01

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CA DHS ELAP# 2496

	Prep(s):	5030	, ,	* * * *,	Test(s)
*	, , ,	5030	**;		8021B
v	Sample ID:	B2-8.0	, .		Lab ID: 2002-09-0375 - 3
	Sampled:	09/16/200	2 08:2	25	Extracted: 9/23/2002 05:01
`	Matrix:	Soil			QC Batch# 2002/09/23-05-03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	26	10	mg/Kg	1.00	09/24/2002 05:01	g
Benzene	ND	0.62	mg/Kg	1.00	09/24/2002 05:01	
Toluene	ND	0.62	mg/Kg	1.00	09/24/2002 05:01	
Ethyl benzene	1.0	0.62	mg/Kg	1.00	09/24/2002 05:01	
Xylene(s)	1.7	0.62	mg/Kg	1.00	09/24/2002 05:01	
MTBE	ND	0.62	mg/Kg	1.00	09/24/2002 05:01	
Surrogates(s)	1	İ				
Trifluorotoluene	76.0	53-125	%	1.00	09/24/2002 05:01	
4-Bromofluorobenzene-FID	96.0	58-124	%	1.00	09/24/2002 05:01	

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Prep(s): 5030

5030

Test(s):

Received: 09/17/2002 13:51

8015M

8021B

Sample ID: **B2-12.0**

09/16/2002 08:30

Lab ID: Extracted: 2002-09-0375 - 4 9/23/2002 10:34

Matrix:

Sampled:

Soil

QC Batch#: 2002/09/23-05.03

		*				
Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	1400	100	mg/Kg	10.00	09/25/2002 10:34	
Benzene	23	6.2	mg/Kg	10.00	09/25/2002 10:34	
Toluene	70	6.2	mg/Kg	10.00	09/25/2002 10:34	
Ethyl benzene	48	6.2	mg/Kg	10.00	09/25/2002 10:34	
Xylene(s)	230	6.2	mg/Kg	10.00	09/25/2002 10:34	
MTBE	ND	6.2	mg/Kg	10.00	09/25/2002 10:34	
Surrogates(s)	- 1	l				
Trifluorotoluene	NA	53-125	%	1.00	09/25/2002 10:34	sd
4-Bromofluorobenzene-FID	NA	58-124	%	1.00	09/25/2002 10:34	sd

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Prep(s):	5030 5030	Test(s): 8015M 8021B
Sample ID:	B4-12.0	2002-09-0375 # 8
Sampled:	09/16/2002 09:20	Extracted: 9/28/2002-06:32
Matrix:	Soil	QC Batch# 2002/09/23 05 03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	130	10	mg/Kg	1.00	09/24/2002 06:32	g
Benzene	ND	0.62	mg/Kg	1.00	09/24/2002 06:32	
Toluene	ND	0.62	mg/Kg	1.00	09/24/2002 06:32	
Ethyl benzene	3.3	0.62	mg/Kg	1.00	09/24/2002 06:32	
Xylene(s)	2.4	0.62	mg/Kg	1.00	09/24/2002 06:32	
MTBE	ND	0.62	mg/Kg	1.00	09/24/2002 06:32	
Surrogates(s)		İ				
4-Bromofluorobenzene	100.0	58-124	%	1.00	09/24/2002 06:32	
Trifluorotoluene-FID	122.0	53-125	%	1.00	09/24/2002 06:32	

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Prep(s): 5030

5030

Sample ID: **B6-5.0**

Sampled: Matrix:

09/16/2002 10:10 Soil

8015M Test(s):

Received: 09/17/2002 13:51

8021B

Lab ID: 2002-09-0375 - 10

Extracted: 9/23/2002 07:33

QC Batch#: 2002/09/23-05 03

Compound	Conc.	RL	Un <u>it</u>	Dilution	Analyzed	Flag
Gasoline	110	10	mg/Kg	1.00	09/24/2002 07:33	
Benzene	1.6	0.62	mg/Kg	1.00	09/24/2002 07:33	
Toluene	ND	0.62	mg/Kg	1.00	09/24/2002 07:33	
Ethyl benzene	2.3	0.62	mg/Kg	1.00	09/24/2002 07:33	
Xylene(s)	9.0	0.62	mg/Kg	1.00	09/24/2002 07:33	
MTBE	ND	0.62	mg/Kg	1.00	09/24/2002 07:33	
Surrogates(s)		į				
4-Bromofluorobenzene	97.0	58-124	%	1.00	09/24/2002 07:33	
4-Bromofluorobenzene-FID	90.0	58-124	%	1.00	09/24/2002 07:33	

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

	Prep(s):	5030			Test(s): 8015M
		5030	` `	 40	8021B Lab ID 2002-09-037511
,	Sample ID:	B5-8.0		4	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
<	Sampled:	09/16/2002 09:50		3	Extracted: 9/23/2002 11/36
	Matrix:	Soil	ĵ	, ₹' .≥ .	QC Batch# 2002/09/23-05:03

Compound	Conc.	RL	Unit_	Dilution	Analyzed	Flag
Gasoline	870	100	mg/Kg	10.00	09/25/2002 11:36	g
Benzene	ND	6.2	mg/Kg	10.00	09/25/2002 11:36	
Toluene) ND	6.2	mg/Kg	10.00	09/25/2002 11:36	
Ethyl benzene	ND	6.2	mg/Kg	10.00	09/25/2002 11:36	
Xylene(s)	ND	6.2	mg/Kg	10.00	09/25/2002 11:36	
MTBE	ND	6.2	mg/Kg	10.00	09/25/2002 11:36	
Surrogates(s)	İ					
Trifluorotoluene	NA	53-125	%	1.00	09/25/2002 11:36	sd
4-Bromofluorobenzene-FID	NA NA	58-124	%	1.00	09/25/2002 11:36	sd

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Prep(s):	5030 5030	The substitution of the su
Sample ID:	B5-12.0	Lab ID 2002-09-0375-12
Sampled:	09/16/2002 09:55	Extracted 9/23/2002 09:34
Matrix:	Soil 🦿 🙏	QC Batch# 2002/09/23-05-03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	180	10	mg/Kg	1.00	09/24/2002 08:34	g
Benzene	ND	0.62	mg/Kg	1.00	09/24/2002 08:34	
Toluene	ND	0.62	mg/Kg	1.00	09/24/2002 08:34	
Ethyl benzene	1.4	0.62	mg/Kg	1.00	09/24/2002 08:34	
Xylene(s)	ND	0.62	mg/Kg	1.00	09/24/2002 08:34	
MTBE	ND	0.62	mg/Kg	1.00	09/24/2002 08:34	
Surrogates(s)						
4-Bromofluorobenzene	113.0	58-124	%	1.00	09/24/2002 08:34	
4-Bromofluorobenzene-FID	130.0	58-124	%	1.00	09/24/2002 08:34	sh

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Received: 09/17/2002 13:51

Sampled: 09/16/2002 07:50 Extracted: 9/23/2002 11:05

Matrix: Soil QC Batch# 2002/09/23-05.03

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Gasoline	370	100	mg/Kg	10.00	09/25/2002 11:05	
Benzene	ND	6.2	mg/Kg	10.00	09/25/2002 11:05	
Toluene	ND	6.2	mg/Kg	10.00	09/25/2002 11:05	
Ethyl benzene	13	6.2	mg/Kg	10.00	09/25/2002 11:05	
Xylene(s)	47	6.2	mg/Kg	10.00	09/25/2002 11:05	
MTBE	ND	6.2	mg/Kg	10.00	09/25/2002 11:05	
Surrogates(s)						
Trifluorotoluene	NA	53-125	%	1.00	09/25/2002 11:05	sd
4-Bromofluorobenzene-FID	NA	58-124	1%	1.00	09/25/2002 11:05	sd

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

, ',	Batch OC Report	4
Prep(s): 5030	。 1. 1915年 - 1915年	-
Method Blank	Soil QC Batch #2002/09/23-05:03	
MB: 2002/09/23-05.03-001		,

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	09/25/2002 07:29	
Benzene	ND	0.62	mg/Kg	09/25/2002 07:29	
Toluene	ND	0.62	mg/Kg	09/25/2002 07:29	
Ethyl benzene	ND	0.62	mg/Kg	09/25/2002 07:29	
Xylene(s)	ND	0.62	mg/Kg	09/25/2002 07:29	
MTBE	ND	0.62	mg/Kg	09/25/2002 07:29	
Surrogates(s)					
Trifluorotoluene	111.0	53~125	%	09/25/2002 07:29	
4-Bromofluorobenzene-FID	97.1	58-124	%	09/25/2002 07:29	•

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

* * * * * * * * * * * * * * * * * * * *		Batch QC Report	,
Prep(s):	5030	Iesi(s): 8021B	4, 6, 5 6, 5 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5, 5
Laborato	ory Control		2
LCS	2002/09/23	The state of the s	
LCSD	2002/09/23	05.03-003 Extracted 09/23/2002 Analyzed 09/25/2002 17.12	ξ

Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Fla	ags
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Benzene Toluene Ethyl benzene Xylene(s)	0.143 0.150 0.153 0.455	0.148 0.141 0.157 0.468	0.125 0.125 0.125 0.375	114.4 120.0 122.4 121.3	118.4 112.8 125.6 124.8	3.4 6.2 2.6 2.8	77-123 78-122 70-130 75-125	35 35 35 35		
Surrogates(s) Trifluorotoluene	109	114	100	109.0	114.0		53-125	0		

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

	······································		Batch QC Re	port						
Prep(s): 5030				ng Lording Ngayang		(6-513-m4 5-511-5-m4			Test(s):	8015M
Laboratory Control Spi	ke .		Soll			- Qi	C Batch	i # 200	2/09/20	3-05.03
LCSD 2002/09/23-05 LCSD 2002/09/23-05	,		Extracted.i Extracted∶i	ASSET FRANCISCO	Fried St. Land	310 5 5 500 380 20	Analyze Analyze	march and Additional	STHERE S. PENT ARE ALL	the state of the s
LCSD 2002/09/23-05	,	mg/Kg		09/23/20	Fried St. Land	310 5 5 500 380 20	el material de la company de la company de la company de la company de la company de la company de la company	d: 09/	23/200	the state of the s
LCSD 2002/09/23-05	.03-005	mg/Kg	Extracted (09/23/20	002	o a company	Analyze	d: 09/	23/200	2 18:15
, , , , , , , , , , , , , , , , , , , ,	03-005 Conc.		Extracted (09/23/2(Red	002 overy	RPD	Analyze Ctrl.Lin	od: 09/	23/200 Fl	2 18:15 ags

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

The state of the second section of the second section of the section of the second section of the s

Legend and Notes

Received: 09/17/2002 13:51

Result Flag

g

Hydrocarbon reported in the gasoline range does not match

our gasoline standard.

sd

Surrogate recovery not reportable due to required dilution.

sh

Surrogate recovery was higher than QC limit due to matrix interference.

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
T1-DISP5.0	09/16/2002 08:45	Soil	6

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

Prep(s): 5030

5030

Sample ID: T1-DISP.-5.0

09/16/2002 08:45

Sampled: Matrix:

Soil

Test(s): 8021B

Received: 09/17/2002 13:51

8015M

2002-09-0375 - 6 Lab ID:

Extracted:

9/30/2002 15:00

QC Batch#: 2002/09/30-05.03

Compound	Conc.	RL.	Unit	Dilution	Analyzed	Flag
Gasoline	80	10	mg/Kg	1.00	10/01/2002 10:50	
Benzene /	ND	0.62	mg/Kg	1.00	10/01/2002 10:50	
Toluene	ND	0.62	mg/Kg	1.00	10/01/2002 10:50	
Ethyl benzene	1.2	0.62	mg/Kg	1.00	10/01/2002 10:50	
Xylene(s)	ND	0.62	mg/Kg	1.00	10/01/2002 10:50	
MTBE	ND	0.62	mg/Kg	1.00	10/01/2002 10:50	
Surrogates(s)]	J]]			
4-Bromofluorobenzene	95.5	58-124	%	1.00	10/01/2002 10:50	
4-Bromofluorobenzene-FID	71.3	58-124	%	1.00	10/01/2002 10:50	

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

		* 3 3 -	Batch QC Report
		· · · · · · · · · · · · · · · · · · ·	
Prep(s): 5030			Test(s): 8015M
Method Blank	•		Soil QC Batch # 2002/09/30-05-03
MB: 2002/09/30-05	.03-001		Date Extracted: 09/30/2002 15:00

Compound	Conc.	RL	Unit	Analyzed	Flag
Gasoline	ND	10	mg/Kg	10/01/2002 10:19	
Benzene	ND	0.62	mg/Kg	10/01/2002 10:19	
Toluene	ND	0.62	mg/Kg	10/01/2002 10:19	
Ethyl benzene	ND	0.62	mg/Kg	10/01/2002 10:19	
Xylene(s)	ND	0.62	mg/Kg	10/01/2002 10:19	
MTBE	ND	0.62	mg/Kg	10/01/2002 10:19	
Surrogates(s)		ĺ			
Trifluorotoluene	107.8	53-125	%	10/01/2002 10:19	
4-Bromofluorobenzene-FID	116.8	58-124	%	10/01/2002 10:19	

Gas/BTEX Compounds (High Level)

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CA DHS ELAP# 2496

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- V	223	രഭ	1600	201	300
52 T	4.5	C 10 %	Re	010	3 48 6 2

Prep(s): 5030

LCS

LCSD

Test(s): 8021B

Laboratory Control Spike

2002/09/30-05.03-002

2002/09/30-05:03-003

Soil .

Extracted: 09/30/2002

Received: 09/17/2002 13:51

QC Batch # 2002/09/30-05.03 Analyzed: 10/01/2002 03:44

Extracted: 09/30/2002 Analyzed: 10/01/2002 04:15

Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Flags		
Compound	LCS	LCSD		LCS LCSD		%	Rec.	RPD	LCS	LCSD	
Benzene	0.121	0.115	0.125	96.8	92.0	5.1	77-123	35			
Toluene	0.128	0.123	0.125	102.4	98.4	4.0	78-122	35	ı		
Ethyl benzene	0.135	0.126	0.125	108.0	100.8	6.9	70-130	35	'	[
Xylene(s)	0.397	0.372	0.375	105.9	99.2	6.5	75-125	35			
Surrogates(s)		-							İ		
Trifluorotoluene	467	441	500	93.4	88.2		53-125	0			

Gas/BTEX Compounds (High Level)

ACC Environmental Consultants

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CA DHS ELAP# 2496

,			В	atch QC Rej	oort	- králost byjaka	independent fre d	
Prep(s):	5030				Commission of the Commission o	And the second s	Test(s): 8015M	23
Laborat	tory Control Spike	, , , , , , , , , , , , , , , , , , ,		Soil		QC Batcl	n#-2002/09/30-05-03	
LCS	2002/09/30-05:0	3-004		Extracted: 0	9/30/2002	Analyz	ed: 10/01/2002 14:35	Ų,
LCSD	2002/09/30-05.0	3-005		Extracted: 0	9/30/2002	Analyz	ed: 10/01/2002 15:06	2

Compound	Conc.	mg/Kg	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Flags		
	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD	
Gasoline	0.531	0.624	0.625	85.0	99.8	16.0	75-125	35			
Surrogates(s) 4-Bromofluorobenzene-FID	413	409	500	82.6	81.8		58-124	0		:	

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STL San Francisco

1220 Quarry Lane ● Pleasanton CA 94566-4756 Phone: (925) 484-1919 ● Fax: (925) 484-1096

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ate	9/16	102	Page	 of 2

Reference #: 6852

Chain of Custody						•	2	Ó	1		<u>Ochro</u>	7	com	1	3/	70		Date	9/	16/0	2_	Page _	1	۔ ک_ of	2		
Report To													_ U		An		Requ	001					-	-			
Attn: DAVID DEMENT										9						alysis	vedr	est									1
Company: ACC ENVI	RON	MENTA	L CONS	ULTA	ANTS	;	338 818 818		ا ه ه ه	BTEX JEffar		(VOCs)		E	1 608 3 608			O RCRA		Q	<u>₹</u>		<u>.</u>				
Address: 7977 CAPWI		PRIVE,	OAKLAN	ID, C	Α		1 82 P	1260B	S E	88 C		S (V		☐ Petroleum ☐ Totaí	2 Z	8310		a l		lum for H	Alkalinity	II NO3			1		
P: (510) 638-8400 x 1	109	E: dd	ement@:	accer	nv.co	m	8021 X	8		0 0 0 0 0 0 0	bons 1	CAM 624	325	Pet	4 8081 4 8082		(12)	H-I		hrom		SO ₄ E			Ì	4	2
BIII To: ACC ENVIRONMENTAL	Sar	npied B	<u></u>		_		CI 8015/8021 CI 82608	Purgeable Aromatics BTEX EPA - □ 8021 □ 8260B	TEPH EPA 8015M 🛘 Silica Gel	Fuel Tests EPA 8260B; 🗆 Gas 🗀 BTEX 🗀 Five Oxyenates 🖒 DCA, EDB 🗀 Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GC/MS ☐ EPA 8260B ☐ 624	Semivolatiles GC/MS	Oil and Grease □ (EPA 1664) □	C EPA	[] 8270	PNAs by 🗆 8270 E CAM17 Metals (EPA 6010/7470/7471)	Metals: ⊡ Lead ⊡ LUFT ⊡ Other:	W.E.T (STLC) TCLP	Hexavalent Chromlum pH (24h hold time for H ₂ O)	Cond,	<u> </u>				2	of Containe
Attn: TREVOR	Pho	ne ext:	113				EPA Is w/	eable CEP	HEP/	ests E	sable Cs) E	16 Or 28 82	volatii 9A 82	1664	oldes	à	17 Me 6010	s: [] 1	W.E.	неха рН (2	Spec TSS	.; 			1	7	er of
Sample ID		Date	Time	Mat rix	t Pr	res rv.	TPH EPA XXGas w/	Purg BTE)		Fuel T	Purg	Volati □ Ei	Sem	Oil ar (EPA	Pesticides PCBs	PNAs by	CAM (EPA	Meta		00	00	Anions					Number
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B2-8.0			8:25				\checkmark																	\vdash			1
B2-12.0			8:30			1							i												\rightarrow	$\overline{}$	Ť
T1-Disp2.	5		8:45		1		\bigcirc				· 													\vdash			i
	1-Disp-5.0 8:45												_										\vdash		\checkmark		
B4-8.0			9.15																					\vdash		\bigotimes	
1B4-12-0			9:20				\forall						-														<u> </u>
B4-16.0			9:25			T	X																				
B6-5.0		V	10:10	J	-	V																					
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Report: Routine Level 3 Level 4 LEDD State Tank Fund EDF Special Instructions / Comments: Global ID					Signa	ture	4	_	Time		Sign	ature			Tir	ne	Sig	gnature			7	ime	-				
				Printed Name Date				Printed Name Date				Nouna 4. 9/17/02															
MOST Soil Samples have discoloration, gasoline odor, and elevated PID levels					/2.	- /	ئے			Printed Name Date				Printed Name Date													
									Company				Сотрапу														
													<u> </u>					Rev 01/02									

SEVERN
TRENT
SERVICES

1220 Quarry Lane • Pleasanton CA 94566-4756

Reference #:	68822
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SIL San Francisco	Phone: (925) 484-1919 • Fax: (925) 484-
Chain of Custody	Email-info@chrometab.com

375 Date 9/16/02 Page 2 of 2

eport To													Ana	alvsis	Requ	est						-			
Åttn: DAVID DEMENT								2																	
Company: ACC ENVI	RONMENTA	L CONSL	JLTAN	ITS	器出		- Ge	BTEX		(\$)C		Ε	E08	<u>o</u>		RCRA	1	Q	產	- T					
Address: 7977 CAPWE	LL DRIVE, (OAKLANI	D, CA		28 X	3260B	S = 0	19 E		8		Petroleum Total	1	1 8310				for F	Alkalinity TDS	NO.					
P: (510) 638-8400 x 1	09 E: dde	ment@a	ccenv.	com	28 X	82	교등	п Б Б	toons.	3C/M	MS 625	1 Pe	A 8081 A 8082	0	471)	101	2	ime time	00	SO, [ers
BILL TO: ACC ENVIRONMENTAL	Sampled B	y:			- C 8015/8021 C 82608	Purgeable Aromatics BTEX EPA - 🗆 8021 🗀 8260B	TEPH EPA 8015M II SIIIca Gel	Fuel Tests EPA 82608: CI Gas CI BTEX CI Five Oxyenates CI DCA, EDB CI Ethanol	Purgeable Halocarbons (HVOCs) EPA 8021	Volatile Organics GCMS (VOCs)	Semivolatiles GC/MS	Oil and Grease (EPA 1664)	O EPA	0 8270	CAM17 Metals (EPA 6010/7470/7471)	Metals: ☐ Lead ☐ LUFT ☐ Other:	W.E.T (STLC) TCLP	Hexavafent Chromium pH (24h hold time for H ₂ O)	Spec Cond. TSS	5 6 5 6 0 0				3	Number of Containers
Attn: TREVOR	Phone ext:	113			TPH EPA AGas w/	geable EX EP.	PH EP	Tests (ive Oxy	geable (OCs)	atile O EPA 8	nivolat EPA 8;	and Gr	Pesticides PCBs	PNAs by	M17 M A 6010	als: □	W.E	Hexe pH (Spec	1				2	ber of
Sample ID	Date	Time	Mat rix	Pres erv.	₽Ă	P.E.	20	32	至至	Ş 🗆	Sel	8₽	a P	PN	89	Met	00	00		Anions				1	N
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Report Routine Level 3 Level 4 LEDD LIState Tank Fund EDF					Signa	ture	10		Time	=/_ -	Sign	ature			Tir	ne	- si	gnature	וווע	a K		35) me	-		
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elourses PID readings				Printe	d Name) 7	~	Dat	e	Printed Name Date				Pri	Printed Name Date										
elevated PID realings WATER SATTLES have Slight of 450 line clor				5/1-1/-								_ _	STL-SF												
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STL San Francisco 1220 Quarry Ln Pleasanton CA 94566

Tel.: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP#:2496

ACC Environmental Consultants

7977 Capwell Drive, Suite 100 Oakland, CA 94621

Submission#: 2002-07-0204

Attn.:

Dave DeMent

Project#: 02-6725-001.00

Project:

921 98th Ave.

Dear Mr. DeMent,

Attached is our report for your samples received on 07/10/2002 17:50 This report has been reviewed and approved for release. Reproduction of this report is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after 08/24/2002 unless you have requested otherwise.

We appreciate the opportunity to be of service to you. If you have any questions, please call me at (925) 484-1919.

You can also contact me via email. My email address is: vvancil@chromalab.com

Sincerely,

Vincent Vancil

Project Manager

Halogenated Volatile Organic Compounds by 8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
F-TANK	07/09/2002 10:00	Water	1

Halogenated Volatile Organic Compounds by 8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

8021B Test(s): 5030B Prep(s): 2002-07-0204 - 1 Lab ID: Sample ID: F-TANK

Received: 07/10/2002 17:50

Extracted:

7/12/2002 15:01

Sampled: 07/09/2002 10:00 QC Batch#: 2002/07/12-01.26 Matrix: Water

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	07/12/2002 15:01	
Vinyl chloride	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Chloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Trichlorofluoromethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Methylene chloride	ND	5.0	ug/L	1.00	07/12/2002 15:01	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Chloroform	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Carbon tetrachloride	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Trichloroethene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Bromodichloromethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	07/12/2002 15:01	ţ
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Tetrachloroethene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Dibromochloromethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Chlorobenzene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Bromoform	ND	2.0	ug/L	1.00	07/12/2002 15:01	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	07/12/2002 15:01	ļ
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	07/12/2002 15:01	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00		
Chloromethane	ND	1.0	ug/L	1.00	07/12/2002 15:01	
Bromomethane	ND	1.0	ug/L	1.00	07/12/2002 15:01	
Surrogates(s)	405.0	70 400	0/	1.00	07/12/2002 15:01	
1-Chloro-2-fluorobenzene	105.2	70-130	%	1.00	0111212002 10.01	1

Halogenated Volatile Organic Compounds by 8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

	Batch QC Report	ξ.)
Prep(s): 5030B Method Blank	Test(s): 8021B Water QC Batch # 2002/07/12-01.26 Date Extracted: 07/12/2002 11:51	
MB: 2002/07/12-01.26-005		£;

<u></u>		- 			_
Compound	Conc.	RL	Unit	Analyzed	Flag
Dichlorodifluoromethane	ND	1.0	ug/L	07/12/2002 11:51	
Vinyl chloride	ND	0.5	ug/L	07/12/2002 11:51	
Chloroethane	ND	0.5	ug/L	07/12/2002 11:51	
Trichlorofluoromethane	ND	0.5	ug/L	07/12/2002 11:51	
1,1-Dichloroethene	ND	0.5	ug/L	07/12/2002 11:51	
Methylene chloride	ND	5.0	ug/L	07/12/2002 11:51	
trans-1,2-Dichloroethene	ND	0.5	ug/L	07/12/2002 11:51	
cis-1,2-Dichloroethene	ND	0.5	ug/L	07/12/2002 11:51	
1,1-Dichloroethane	ND	0.5	ug/L	07/12/2002 11:51	
Chloroform	ND	0.5	ug/L	07/12/2002 11:51	
1,1,1-Trichloroethane	ND	0.5	ug/L	07/12/2002 11:51	
Carbon tetrachloride	ND	0.5	ug/L	07/12/2002 11:51	
1,2-Dichloroethane	ND	0.5	ug/L	07/12/2002 11:51	
Trichloroethene	ND	0.5	ug/L	07/12/2002 11:51	
1,2-Dichloropropane	ND	0.5	ug/L	07/12/2002 11:51	
Bromodichloromethane	ND	0.5	ug/L	07/12/2002 11:51	
2-Chloroethylvinyl ether	ND	0.5	ug/L	07/12/2002 11:51	
trans-1,3-Dichloropropene	ND	0.5	ug/L	07/12/2002 11:51	ļ
cis-1,3-Dichloropropene	ND	0.5	ug/L	07/12/2002 11:51	
1,1,2-Trichloroethane	ND	0.5	ug/L	07/12/2002 11:51	
Tetrachloroethene	ND	0.5	ug/L	07/12/2002 11:51	ļ
Dibromochloromethane	ND	0.5	ug/L	07/12/2002 11:51	
Chlorobenzene	ND	0.5	ug/L	07/12/2002 11:51	
Bromoform	ND	2.0	ug/L	07/12/2002 11:51	}
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	07/12/2002 11:51	
1,3-Dichlorobenzene	ND	0.5	ug/L	07/12/2002 11:51	
1,4-Dichlorobenzene	ND	0.5	ug/L	07/12/2002 11:51	
1,2-Dichlorobenzene	ND	0.5	ug/L	07/12/2002 11:51]
Trichlorotrifluoroethane	ND	0.5	ug/L	07/12/2002 11:51	
Chloromethane	ND	1.0	ug/L	07/12/2002 11:51	1
Bromomethane	ND	1.0	ug/L	07/12/2002 11:51	
		1	-3 -		
Surrogates(s)	07.0	70 400	۱ ۵/	07/12/2002 11:51	1
1-Chloro-2-fluorobenzene	97.6	70-130	%	07/12/2002 11:51	<u></u>

Halogenated Volatile Organic Compounds by 8021

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.

SEVERN
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LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

			Batch QC Report		and the state of the
Prep(s);	5030B				Test(s): 8021B
Laborat	tory Control S	pike	Water	QC Batch # 2	002/07/12-01.26
LCS LCSD	2002/07/12-0 2002/07/12-0		Extracted: 07/12/2 Extracted: 07/12/2		7/12/2002 10:21 7/12/2002 11:06

Compound	Conc.	ug/L	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Fla	ags
Compound	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
1,1-Dichloroethene Trichloroethene Chlorobenzene	20.8 23.3 22.7	17.2 20.8 20.2	20.0 20.0 20.0	104.0 116.5 113.5	86.0 104.0 101.0	18.9 11.3 11.7		20		
Surrogates(s) 1-Chloro-2-fluorobenzene	25.6	24.8	20	128.0	124.0		70-130			

Metals

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Samples Reported

Sample Name	Date Sampled	Matrix	Lab#
F-TANK	07/09/2002 10:00	Water	1

Metals

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.



STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

Prep(s):

3010A

Test(s):

6010B

2002-07-0204 - 1

Sample ID: F-TANK

Sampled: 07/09/2002 10:00 -

Extracted:

Lab ID:

Received: 07/10/2002 17:50

7/12/2002 05:11

Matrix:

Water

QC Batch#: 2002/07/12-01.15

Compound	Conc.	RL	Unit	Dilution	Analyzed	Flag
Cadmium	0.055	0.0020	mg/L	1.00	07/12/2002 11:50	
Chromium	0.034	0.0050	mg/L	1.00	07/12/2002 11:50	
Lead	ND	0.0050	mg/L	1.00	07/12/2002 11:50	
Nickel	0.041	0.0050	mg/L	1.00	07/12/2002 11:50	ı
Zinc	0.040	0.010	mg/L	1.00	07/12/2002 11:50	

Metals

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.

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LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

	Rer	

Received: 07/10/2002 17:50

Prep(s): 3010A Method Blank

MB: 2002/07/12-01.15-038

Water

Test(s): 6010B QC Batch # 2002/07/12-01:15

Date Extracted: 07/12/2002 05:11

Compound	Conc.	RL	Unit	Analyzed	Flag
Cadmium	ND	0.0020	mg/L	07/12/2002 09:56	
Chromium	ND	0.0050	mg/L	07/12/2002 09:56	
Lead	ND	0.0050	mg/L	07/12/2002 09:56	
Nickel	ND	0.0050	mg/L	07/12/2002 09:56	
Zinc	ND	0.010	mg/L	07/12/2002 09:56	

Metals

2 1 1 1

ACC Environmental Consultants

Attn.: Dave DeMent

7977 Capwell Drive, Suite 100

Oakland, CA 94621

Phone: (510) 638-8400 Fax: (510) 638-8404

Project: 02-6725-001.00

921 98th Ave.

SEVERN TRENT LABORATORY

STL San Francisco 1220 Quarry Lane Pleasanton, CA 94566

Tel: (925) 484-1919 Fax: (925) 484-1096 www.stl-inc.com www.chromalab.com

CA DHS ELAP# 2496

			Batch 6	C Report		
Prep(s):	3010A					Test(s): 6010B
Labora	tory Control Sp	oike .		Water	QC Batch#	2002/07/12-01.15
LCS	2002/07/12-0	1.15-039	Extra c	ted: 07/12/2002	Analyzed	07/12/2002 10:01
LCSD	2002/07/12-0	1.15-040	Extrac	sted: 07/12/2002	Analyzed:	07/12/2002 10:05

Compound	Conc.	mg/L	Exp.Conc.	Rec	overy	RPD	Ctrl.Lin	nits %	Fla	ags
Compound	LCS	LCSD		LCS	LCSD	%	Rec.	RPD	LCS	LCSD
Cadmium Chromium Lead Nickel Zinc	0.516 0.515 0.513 0.513 0.519	0.525 0.528 0.524 0.524 0.530	0.500 0.500 0.500 0.500 0.500	103.2 103.0 102.6 102.6 103.8	105.0 105.6 104.8 104.8 106.0	1.7 2.5 2.1 2.1 2.1	80-120 80-120 80-120 80-120 80-120	20 20 20 20 20 20		

	Home: 1 UD
SEVERN	11///
TRENT	STL ChromaLab
SEKVICES	Chain of Custody

1220 Quarry Lane ● Pleasanton CA 94566-4756 Phone: (925) 484-1919 ● Fax: (925) 484-1096

none: (925) 484-1919 ● Fax: (925) 484-19 Fmail: <u>info@chromalab.com</u> Reference #: <u>47439</u>.

Date <u>7/10/67</u> Page <u>1</u> of <u>1</u>

2002-07-0204 Analysis Request From David R. DeMent Proj.Mgr TEPH (EPA 8015M) CI Slika Gel Fuel Oxygenatas (82608): CJ DCA, EDB CJ Full Oxygenata List CJ MYBE CJ BYEX O **ACC Environmental** Hexavalent Chromium pH (24h hold time for H₂O) 8015, 8020/8021) C) BYEX C) MTBE Company ð. Š. Volatile Organics GC/MS (VOCs) (EPA 8260A/8260B) Address 7977 Capwell Drive a Metals: © Lead X LUFT Purgeable Aromatics BTEX (EPA 8020/8021) CAM17 Metals (EPA 6010/7470/7471) 00 0 80° (Oakland, CA 94621 Semivolatiles GC/MS (EPA 8270) W.E.T (STLC) TCLP Oil and Grease
CEPA 1664) Spec Cond. TSS Sampler (Signature) PNAs by C ១គ Phone Fax: (510) 638-8404 (510) 638-8400 x 109 Email: ddement@accenv.com Sample ID 7/9/07/0:00 F-TANK TTRetinquished by: 2) Relinquished by: 3) Relinquished by: Project Info. Sample Receipt Project Name: 98th Ave # of Containers: Signature Signature Time Signature Time Head Space: Project#. 02-6725-001.00 David R. DeMent Printed Name Date Printed Name Date Printed Name Temp: 5.4°C ACC Environmental Credit Card#: Conforms to record: Company Company Company Other 1) Received by: 2) Received by: 3) Received by: Std 5 48ħ 24h Harrington 1750 Report: Routine | Level 3 | Level 4 | EDD | Special tristructions / Comments Signature Time Signature Time D. Havvington
Printed Name Any expedited Turnaround Would Printed Name
be greatly appreciated Company Date Printed Name Date STL-SF Company Company



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RELATED RESOURCES

PDF File for Printing
(See PDF Info)

Public Health Statement

Toxicological Profile

Minimal Risk Levels

Division of Toxicology

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Are there federal recommendations?

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ToxFAQs™ for

Formaldehyde

CAS# 50-00-0

July 1999

This fact sheet answers the most frequently asked health questions about formaldehyde. For more information, you may call the ATSDR Information Center at 1-888-422-8737. This fact sheet is one in a series of summaries about hazardous substances and their health effects. This information is important because this substance may harm you. The effects of exposure to any hazardous substance depend on the dose, the duration, how you are exposed, personal traits and habits, and whether other chemicals are present.

HIGHLIGHTS: Everyone is exposed to small amounts of formaldehyde in air and some foods and products. Formaldehyde can cause irritation of the skin, eyes, nose, and throat. High levels of exposure may cause some types of cancers. This substance has been found in at least 26 of the 1,467 National Priorities List sites identified by the Environmental Protection Agency (EPA).

What is formaldehyde? (Pronounced for-mal' de hide')

At room temperature, formaldehyde is a colorless, flammable gas that has a distinct, pungent smell. It is also known as methanol, methylene oxide, oxymethyline, methylaldehyde, and oxomethane. Formaldehyde is naturally produced in small amounts in our bodies.

It is used in the production of fertilizer, paper, plywood, and ureaformaldehyde resins. It is also used as a preservative in some foods and in many products used around the house, such as antiseptics, medicines, and cosmetics.

What happens to formaldehyde when it enters the environment?

- Formaldehyde dissolves easily but does not last a long time in water.
- Most formaldehyde in the air breaks down during the day.
- The breakdown products of formaldehyde are formic acid and carbon monoxide.
- Formaldehyde does not build up in plants and animals.

How might I be exposed to formaldehyde?

- Smog is a major source of formaldehyde exposure.
- Cigarettes and other tobacco products, gas cookers, and open fireplaces are sources of formaldehyde exposure.
- It is used in many industries and in hospitals and laboratories.
- Formaldehyde is given off as a gas from the manufactured wood products used in new mobile homes.
- The amount of formaldehyde in foods is very small.
- Household sources, such as fiberglass, carpets, permanent press fabrics, paper products, and some househould cleaners.

How can formaldehyde affect my health?

Low levels of formaldehyde can cause irritation of the eyes, nose, throat, and skin. It is possible that people with asthma may be more sensitive to the effects of inhaled formaldehyde.

Drinking large amounts of formaldehyde can cause severe pain, vomiting, coma, and possible death.

How likely is formaldehyde to cause cancer?

Some studies of people exposed to formaldehyde in workplace air found more cases of cancer of the nose and throat than expected, but other studies did not confirm this finding.

In animal studies, rats exposed to high levels of formaldehyde in air developed nose cancer. The Department of Health and Human Services (DHHS) has determined that formaldehyde may reasonably be anticipated to be a carcinogen.

How does formaldehyde affect children?

The most common route of exposure is by breathing it, which is likely to cause nose and eye irritation (burning, itchy, tearing, and sore throat) in children as well as in adults.

Animal studies suggest that formaldhyde will not cause birth defects in humans. It is not likely to be transferred to a child in breast milk.

How can families reduce the risk of exposure to formaldehyde?

Formaldehyde is usually found in the air, and levels are usually higher indoors than outdoors. Opening windows and using fans to bring fresh air indoors are the easiest ways to lower levels in the house. Not smoking and not using unvented heaters indoors can lower the formaldehyde levels.

Removing formaldehyde sources in the home can reduce exposure. Formaldehyde is given off from a number of products used in the home. Providing fresh air, sealing unfinished manufactured wood surfaces, and washing new permanent press clothing before wearing can help lower exposure.

Is there a medical test to show whether I've been exposed to formaldehyde?

Laboratory tests can measure formaldehyde in blood, urine, and breath. These tests do not tell you how much formaldehyde you have been exposed to or if harmful effects will occur. The tests are not routinely available at your doctor's office.

Has the federal government made recommendations to protect human health?

The EPA recommends that an adult should not drink water containing more than 1 milligram of formaldehyde per liter of water (1 mg/L) for a lifetime exposure, and a child should not drink water containing more than 10 mg/L for 1 day or 5 mg/L for 10 days.

The Occupational Safety and Health Administration (OSHA) has set a permissable exposure limit for formaldehyde of 0.75 parts per million (ppm) for an 8-hour workday, 40-hour workweek.

The National Institute for Occupational Safety and Health (NIOSH) recommends an exposure limit of 0.016 ppm.

Source of Information

Agency for Toxic Substances and Disease Registry (ATSDR). 1999. Toxicological profile for formaldehyde. Atlanta, GA: U.S. Department of Health and Human Services, Public Health Service.

Animal testing is sometimes necessary to find out how toxic substances might harm people and how to treat people who have been exposed. Laws today protect the welfare of research animals and scientists must follow strict guidelines.

Where can I get more information?

ATSDR can tell you where to find occupational and environmental health clinics. Their specialists can recognize, evaluate, and treat

illnesses resulting from exposure to hazardous substances. You can also contact your community or state health or environmental quality department if you have any more questions or concerns.

For more information, contact:

Agency for Toxic Substances and Disease Registry Division of Toxicology 1600 Clifton Road NE, Mailstop E-29 Atlanta, GA 30333

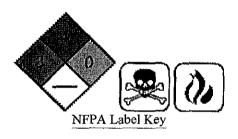
Phone: 1-888-422-8737 FAX: (404)498-0057

External safety and chemistry information (please see our disclaimer):

Formaldehyde CH₂O

Stereo Image MDL Molfile





Vermont SIRI MSDS Archive

ATSDR Information Center / ATSDRIC@cdc.gov / 1-888-422-8737

This page last updated on June 11, 2001

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