

BES

BLOCK ENVIRONMENTAL SERVICES

2451 Estand Way
Pleasant Hill, CA 94523
(510) 682-7200 FAX 686-0399

**TANK CLOSURE REPORT
FOR
ONE COLOR COMMUNICATIONS
1001 42ND ST
OAKLAND, CALIFORNIA**

October 24, 1995

Prepared for:

**ONE COLOR COMMUNICATIONS
1001 42nd St.
Oakland, CA 94608**

Prepared by:

Block Environmental Services

2451 Estand Way
Pleasant Hill, CA 94523
(510) 682-7200 FAX 686-0399

October 23, 1995

Ms. Susan Hugo
Alameda County Health Agency
Division of Environmental Protection
Department of Environmental Health
1131 Harbor Bay Parkway, 2nd Floor
Alameda, CA 94502

Subject: Closure Report for ONE Color Communications Underground Tank

Dear Ms. Hugo:

On behalf of ONE Color Communications (ONE), Block Environmental Services (BES) is pleased to provide you with a closure report for the underground tank that was found adjacent to the North wall of the former neutralization room at the ONE facility. The tank was inadvertently found during November, 1994. ONE has occupied the facility since 1980 with no awareness that the tank existed. Also, the tank was not reported to ONE by the former owners of the building, the Grow Group.

ONE completed the underground storage tank permit application, Form A and B on June 15, 1995 (Attachment 1).

GROUND PENETRATING RADAR INVESTIGATION

After the tank was discovered in November, 1994, NORCAL Geophysical Consultants were retained to delineate the location of the underground tank, determine if there were any piping connections and use ground penetrating radar (GPR) in other areas of the ONE building to determine if any other underground tanks may have been present. The data for the GPR is presented in Attachment 2. No other underground tanks or piping were found in the areas surveyed. The underground tank in the neutralization room was estimated to have a volume of about 300 gallons, measured 9 feet in length with a three foot diameter. The east side of the tank was estimated to rest against the exterior brick wall of the building. No piping was found to extend from the tank. The location of the tank relative to the ONE facility is shown on Figure 1.

A thorough search of the original facility plans were made in December, 1994. No facility plans were found indicating the existence of the tank. Hence, it was not possible to determine what the usage of the tank was in the former process area and thereby determine the possible contents of the tank. The tank appeared to contain about 150-175 gal of unknown liquid. A best estimate was that the tank was used to contain a wastewater which was pumped into the sanitary sewer when the tank was nearly full.



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STRUCTURAL CONSEQUENCE ANALYSIS

A structural consequence analysis of removing the underground tank was conducted by Mr. Bruce Cameron, P.E., a principal with Jordan, Woodman and Dobson (JWD). Based on the fact that the tank bottom was located three feet below the floor surface, the tank was assumed to be lower than the adjacent foundation for the masonry wall. JWD recommended that the tank not be removed, but left in place and filled with concrete. An excavation caused by the removal of the tank would undermine the adjacent exterior masonry wall foundation and possibly cause both settlement and lateral displacement. JWD also made recommendation for the appropriate grouting of the tank (see attachment 3).

TANK CONTENTS

On November 10, 1994, a sample of the tank contents was collected by BES staff and sent to a laboratory certified by the California Department of Health Services (DHS) for chemical analysis. Another sample was collected and sent to a DHS laboratory for a fish bioassay as required under Title 22, Section 66261.24. Appropriate sample containers were used for each of the samples collected depending on the type of analysis to be performed. Both samples were accompanied by chain of custody documentation. The sample submitted for chemical analysis was analyzed for the Title 22 metals, volatile organic compounds by EPA Method 8240, semivolatile organic compounds by EPA Method 8270, pH, flash point, and TPH extracted as diesel and kerosene. A second sample of the tank contents was collected on February 10, 1995. This sample was analyst for Method 8270 compounds and it was requested that all tentatively identified compounds (TICs) be identified. The laboratory data and chain of custody for all samples is presented as Attachment 4.

A summary of the results of the tank contents indicated a flash point greater than 60 degrees C, a pH of 8.9, and the 96-hr LC50 greater than 750 mg/L. The analytical results are tabularized below.

Summary of Metal Analysis for Tank Contents
 concentrations in mg/l

antimony	ND	mercury	0.064	lead	1.4
arsenic	ND	molybdenum	ND		
barium	0.2	nickel	ND		
beryllium	ND	selenium	ND		
cadmium	ND	silver	ND		
chromium	0.4	thallium	ND		
cobalt	0.04	vanadium	0.01		
copper	1.4	zinc	3.4		

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The only organic compound detected in the samples was Di-n-butylphthalate at 1.2 mg/L. This compound was not identified during the first set of sampling and may be an artifact in that plasticizer are often found in environmental samples. TPH as diesel was found at 24 mg/L and TPH as kerosene was at 20 mg/L in the tank contents. These concentrations were quantified from one point kerosene and motor oil curves. The concentrations of TPH in the tank contents are significantly less than what has been found in the soil in the general vicinity of ONE.

Based on the analytical results provided above, the tank contents (about 175 gal) were pumped out of the tank on June 15, 1995 by Universal Environmental and manifested as a nonhazardous waste to the Patterson facility (see attachment 5).

APPLICATION TO CLOSE THE TANK IN PLACE

An Underground Tank Closure Plan was submitted to Alameda County on June 16, 1995 and approved by the county on June 20, 1995. The closure plan is provided as Attachment 6. It was agreed that the tank could be closed in place if a boring was installed adjacent to the tank in accordance with instructions delineated in the closure plan. In addition, a letter was required from the Oakland Fire Department providing concurrence to close the tank in place. The letter from the Oakland Fire Department, dated June 29, 1995 is provided as Attachment 7. The letter gives approval for closing the tank in place.

BORING INSTALLATION

On June 21, 1995, a four inch diameter hole was cut into the concrete about six inches from the north wall of the tank and about 12 inches from the end of the tank going east. A two inch diameter handheld auger was used to install the boring to a depth of 4.5 feet below the surface. This represents about 12 inches below the tank bottom. A drive sampler was used to collect an undisturbed soil sample in a six inch brass tube. The tube was fitted with plastic end caps and placed in a ice chest with blue ice. Several deeper samples were collected to a depth of six feet below the surface. The deeper samples were not analyzed. The soil from the boring did not appear to contain any organic odors.

The soil sample was sent to a laboratory certified by the California Department of Health Services under chain of custody documentation. The sample was analyzed for oil & grease, TPH-gas, TPH-diesel, volatile organic chemicals by EPA Method 8240 and semivolatile organic chemicals by EPA method 8270. All analytes were nondetectable at their reporting limit except benzene which was found at a concentration of 0.007 mg/kg (Attachment 8).

There was about three inches of liquid remaining in the tank. The level of liquid was monitored over a two week period. There was a fluctuation of about a one-half inch of fluid

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(plus or minus) which was contributed to the technician error. Based on these data and observations, it was concluded that the tank did not leak.

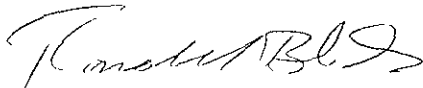
TANK CLOSURE

The tank was rinsed three times with about 50 gallons of water for each rinse. The rinsate was disposed of in the sanitary drain.

Just prior to filling the tank with concrete, combustible vapors in the tank were monitored with a Gas Tech 1214 SMPN combustible gas meter. The LEL was 0.0 % and oxygen was 20.4 %. As instructed by the structural engineer, the tank was filled with a lean concrete grout mix, $f'_c = 1,000$ psi at 28 days and 3/8" maximum aggregate. The mix was prepared by RMC Lonestar as Mix Number 6780 (see attachment 8 for complete description of the mix). The mix was delivered to the site on July 15, 1995 and was pumped into the tank by All Bay Concrete Pumping. About two cubic yards of concrete were required to fill the tank and its opening.

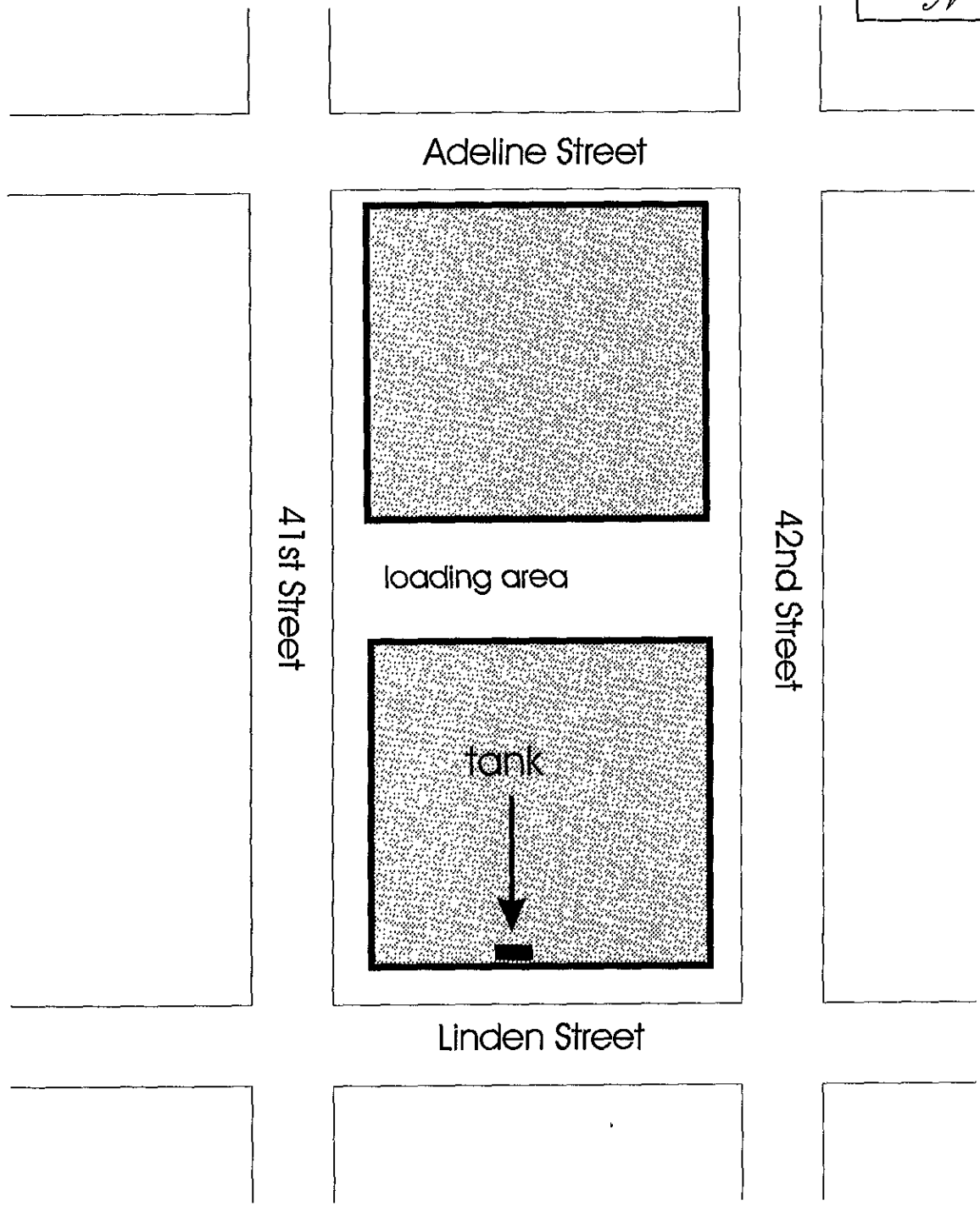
If we can provide you any additional information, please do not hesitate to contact me.

Very truly yours,
BLOCK ENVIRONMENTAL SERVICES, INC.



Ronald M. Block, PhD, REA
Project Manager

cc: Mr. Gary Leach- ONE Color Communications
Ms. Robin Myren-McInerney & Dillon



Not to scale

BES
BLOCK ENVIRONMENTAL SERVICES, INC.
2455 Estand Way
Pleasant Hill, CA 94523
(510) 682-7200 FAX 686-0399

FIGURE 1:
Closed Tank Location

ONE Color Commication
1001 42nd Street
Oakland, California 94608

Project No. 504 October, 1995

ATTACHMENT 1

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



COMPLETE THIS FORM FOR EACH FACILITY/SITE

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

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

DBA OR FACILITY NAME <i>O. N.E. Color Communications</i>		NAME OF OPERATOR <i>Gary Leach</i>		
ADDRESS <i>1001 42nd street</i>		NEAREST CROSS STREET <i>Linden street</i>	PARCEL # (OPTIONAL)	
CITY NAME <i>Oakland</i>		STATE <i>CA</i>	ZIP CODE <i>94608</i>	SITE PHONE # WITH AREA CODE <i>(510) 652-9005</i>
<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> LOCAL AGENCY DISTRICTS* <input type="checkbox"/> COUNTY AGENCY* <input type="checkbox"/> STATE AGENCY* <input type="checkbox"/> FEDERAL AGENCY*				
* If owner of UST is a public agency, complete the following: name of Supervisor of division, section, or office which operates the UST				
TYPE OF BUSINESS		IF INDIAN RESERVATION OR TRUST LANDS		E. P. A. I. D. # (optional)
<input type="checkbox"/> 1 GAS STATION <input type="checkbox"/> 2 DISTRIBUTOR <input type="checkbox"/> 3 FARM <input type="checkbox"/> 4 PROCESSOR <input checked="" type="checkbox"/> 5 OTHER		<input type="checkbox"/>		

EMERGENCY CONTACT PERSON (PRIMARY)

EMERGENCY CONTACT PERSON (SECONDARY) - optional

DAYS: NAME (LAST, FIRST) <i>Leach, Gary</i>	PHONE # WITH AREA CODE <i>(510) 652-9005</i>	DAYS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE
NIGHTS: NAME (LAST, FIRST) <i>Leach, Gary</i>	PHONE # WITH AREA CODE <i>(510) 538-0258</i>	NIGHTS: NAME (LAST, FIRST)	PHONE # WITH AREA CODE

II. PROPERTY OWNER INFORMATION - (MUST BE COMPLETED)

NAME <i>Edward & Elizabeth Kozel</i>		CARE OF ADDRESS INFORMATION <i>C/O O.N.E. Color Communications</i>		
MAILING OR STREET ADDRESS <i>P.O. Box 8277</i>		<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME <i>Emeryville</i>		STATE <i>CA</i>	ZIP CODE <i>94662</i>	PHONE # WITH AREA CODE <i>(510) 652-9005</i>

III. TANK OWNER INFORMATION - (MUST BE COMPLETED) (prior owner of building)

NAME OF OWNER <i>Grow Group</i>		CARE OF ADDRESS INFORMATION		
MAILING OR STREET ADDRESS		<input checked="" type="checkbox"/> BOX TO INDICATE <input checked="" type="checkbox"/> CORPORATION <input type="checkbox"/> INDIVIDUAL <input type="checkbox"/> LOCAL AGENCY <input type="checkbox"/> STATE AGENCY <input type="checkbox"/> PARTNERSHIP <input type="checkbox"/> COUNTY AGENCY <input type="checkbox"/> FEDERAL AGENCY		
CITY NAME		STATE	ZIP CODE	PHONE # WITH AREA CODE

IV. BOARD OF EQUALIZATION UST STORAGE FEE ACCOUNT NUMBER - Call (916) 322-9669 if questions arise.

TY (TK) HQ -

V. PETROLEUM UST FINANCIAL RESPONSIBILITY - (MUST BE COMPLETED) - IDENTIFY THE METHOD(S) USED

<input checked="" type="checkbox"/> BOX TO INDICATE	<input type="checkbox"/> 1 SELF-INSURED	<input type="checkbox"/> 2 GUARANTEE	<input type="checkbox"/> 3 INSURANCE	<input type="checkbox"/> 4 SURETY BOND
	<input type="checkbox"/> 5 LETTER OF CREDIT	<input type="checkbox"/> 6 EXEMPTION	<input checked="" type="checkbox"/> 99 OTHER <i>None</i>	

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

CHECK ONE BOX INDICATING WHICH ABOVE ADDRESS SHOULD BE USED FOR LEGAL NOTIFICATIONS AND BILLING: I. II. III.

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

OWNER'S NAME (PRINTED & SIGNED) <i>Gary Leach</i>	OWNER'S TITLE <i>VP, CFO</i>	DATE MONTH/DAY/YEAR <i>6/15/95</i>
--	---------------------------------	---------------------------------------

LOCAL AGENCY USE ONLY

COUNTY # <input type="text" value=""/> <input type="text" value=""/>	JURISDICTION # <input type="text" value=""/> <input type="text" value=""/>	FACILITY # <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/> <input type="text" value=""/>
LOCATION CODE - OPTIONAL	CENSUS TRACT # - OPTIONAL	SUPVISOR - DISTRICT CODE - OPTIONAL

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

OWNER MUST FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

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



COMPLETE A SEPARATE FORM FOR EACH TANK SYSTEM.

MARK ONLY ONE ITEM	<input type="checkbox"/> 1 NEW PERMIT	<input type="checkbox"/> 3 RENEWAL PERMIT	<input type="checkbox"/> 5 CHANGE OF INFORMATION	<input checked="" type="checkbox"/> 7 PERMANENTLY CLOSED ON SITE
	<input type="checkbox"/> 2 INTERIM PERMIT	<input type="checkbox"/> 4 AMENDED PERMIT	<input type="checkbox"/> 6 TEMPORARY TANK CLOSURE	<input type="checkbox"/> 8 TANK REMOVED

DBA OR FACILITY NAME WHERE TANK IS INSTALLED:

I. TANK DESCRIPTION COMPLETE ALL ITEMS - SPECIFY IF UNKNOWN

A. OWNER'S TANK I.D.#	B. MANUFACTURED BY: <u>unknown</u>
C. DATE INSTALLED (MO/DAY/YEAR) <u>unknown</u>	D. TANK CAPACITY IN GALLONS: <u>1000 gal</u>

II. TANK CONTENTS IFA-1 IS MARKED, COMPLETE ITEM C.

A. <input type="checkbox"/> 1 MOTOR VEHICLE FUEL	<input type="checkbox"/> 4 OIL	B. <input type="checkbox"/> 1 PRODUCT	C. <input type="checkbox"/> 1a REGULAR UNLEADED	<input type="checkbox"/> 3 DIESEL	<input type="checkbox"/> 6 AVIATION GAS
<input type="checkbox"/> 2 PETROLEUM	<input type="checkbox"/> 80 EMPTY	<input checked="" type="checkbox"/> 2 WASTE	<input type="checkbox"/> 1b PREMIUM UNLEADED	<input type="checkbox"/> 4 GASAHOL	<input type="checkbox"/> 7 METHANOL
<input type="checkbox"/> 3 CHEMICAL PRODUCT	<input checked="" type="checkbox"/> 95 UNKNOWN		<input type="checkbox"/> 2 LEADED	<input type="checkbox"/> 5 JET FUEL	<input type="checkbox"/> 99 OTHER (DESCRIBE IN ITEM D, BELOW)
D. IF (A.1) IS NOT MARKED, ENTER NAME OF SUBSTANCE STORED <u>wastewater</u>					C. A. S. #:

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

A. TYPE OF SYSTEM	<input type="checkbox"/> 1 DOUBLE WALL	<input type="checkbox"/> 3 SINGLE WALL WITH EXTERIOR LINER	<input checked="" type="checkbox"/> 95 UNKNOWN
	<input type="checkbox"/> 2 SINGLE WALL	<input type="checkbox"/> 4 SECONDARY CONTAINMENT (VAULTED TANK)	<input type="checkbox"/> 99 OTHER
B. TANK MATERIAL (Primary Tank)	<input type="checkbox"/> 1 BARE STEEL	<input type="checkbox"/> 2 STAINLESS STEEL	<input type="checkbox"/> 3 FIBERGLASS
	<input type="checkbox"/> 5 CONCRETE	<input type="checkbox"/> 6 POLYVINYL CHLORIDE	<input type="checkbox"/> 7 ALUMINUM
	<input type="checkbox"/> 9 BRONZE	<input type="checkbox"/> 10 GALVANIZED STEEL	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 STEEL CLAD W/ FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 8 100% METHANOL COMPATIBLE W/FRP
			<input type="checkbox"/> 99 OTHER
C. INTERIOR LINING	<input type="checkbox"/> 1 RUBBER LINED	<input type="checkbox"/> 2 ALKYD LINING	<input type="checkbox"/> 3 EPOXY LINING
	<input type="checkbox"/> 5 GLASS LINING	<input type="checkbox"/> 6 UNLINED	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 PHENOLIC LINING
			<input type="checkbox"/> 99 OTHER
	IS LINING MATERIAL COMPATIBLE WITH 100% METHANOL? YES ___ NO ___		
D. CORROSION PROTECTION	<input type="checkbox"/> 1 POLYETHYLENE WRAP	<input type="checkbox"/> 2 COATING	<input type="checkbox"/> 3 VINYL WRAP
	<input type="checkbox"/> 5 CATHODIC PROTECTION	<input type="checkbox"/> 91 NONE	<input checked="" type="checkbox"/> 95 UNKNOWN
			<input type="checkbox"/> 4 FIBERGLASS REINFORCED PLASTIC
			<input type="checkbox"/> 99 OTHER
E. SPILL AND OVERFILL	SPILL CONTAINMENT INSTALLED (YEAR) <u>None</u>		OVERFILL PREVENTION EQUIPMENT INSTALLED (YEAR) _____

IV. PIPING INFORMATION CIRCLE A IF ABOVE GROUND OR U IF UNDERGROUND, BOTH IF APPLICABLE

A. SYSTEM TYPE	A U 1 SUCTION	A U 2 PRESSURE	A U 3 GRAVITY	A U 99 OTHER <u>No Piping Sound</u>
B. CONSTRUCTION	A U 1 SINGLE WALL	A U 2 DOUBLE WALL	A U 3 LINED TRENCH	A U 95 UNKNOWN
C. MATERIAL AND CORROSION PROTECTION	A U 1 BARE STEEL	A U 2 STAINLESS STEEL	A U 3 POLYVINYL CHLORIDE (PVC)	A U 4 FIBERGLASS PIPE
	A U 5 ALUMINUM	A U 6 CONCRETE	A U 7 STEEL W/ COATING	A U 8 100% METHANOL COMPATIBLE W/FRP
	A U 9 GALVANIZED STEEL	A U 10 CATHODIC PROTECTION	A U 95 UNKNOWN	A U 99 OTHER
D. LEAK DETECTION	<input type="checkbox"/> 1 AUTOMATIC LINE LEAK DETECTOR	<input type="checkbox"/> 2 LINE TIGHTNESS TESTING	<input type="checkbox"/> 3 INTERSTITIAL MONITORING	<input type="checkbox"/> 99 OTHER <u>None</u>

V. TANK LEAK DETECTION

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

VI. TANK CLOSURE INFORMATION

1. ESTIMATED DATE LAST USED (MO/DAY/YR) <u>Prior to 1980</u>	2. ESTIMATED QUANTITY OF SUBSTANCE REMAINING <u>removed 6/15/95</u> <u>175</u> GALLONS	3. WAS TANK FILLED WITH INERT MATERIAL? YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
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THIS FORM HAS BEEN COMPLETED UNDER PENALTY OF PERJURY, AND TO THE BEST OF MY KNOWLEDGE, IS TRUE AND CORRECT

APPLICANT'S NAME (PRINTED & SIGNATURE)

Gary Leach Gary Leach

DATE 6/15/95

LOCAL AGENCY USE ONLY THE STATE I.D. NUMBER IS COMPOSED OF THE FOUR NUMBERS BELOW

STATE I.D.#	COUNTY #	JURISDICTION #	FACILITY #	TANK #
PERMIT NUMBER	PERMIT APPROVED BY/DATE	PERMIT EXPIRATION DATE		

THIS FORM MUST BE ACCOMPANIED BY A PERMIT APPLICATION - FORM A, UNLESS A CURRENT FORM A HAS BEEN FILED.
FILE THIS FORM WITH THE LOCAL AGENCY IMPLEMENTING THE UNDERGROUND STORAGE TANK REGULATIONS

ATTACHMENT 2

LETTER OF TRANSMITTAL

TO: Block Environmental Services
2451 Stand Way
Pleasant Hill, CA 94523

ATTN: Ron Block

REF: Geophysical Survey, Oakland, CA

VIA: MAIL: REG(X) PRIORITY() UPS: RED() FED.EXP:() CA OVERNIGHT:()

ENCLOSED IS/ARE THE FOLLOWING:

Per our conversation today, I am enclosing a copy of the letter report sent to Gary Leach of ONE Color Communications. For your convenience, I also enclosed a copy of the letter report that was sent to your attention.

COMMENTS:

I am sorry to hear about the fire, and hope that the damage was minor and no injuries. Please call with any questions.

BY: Janice L. Hede

DATE: October 6, 1995



December 9, 1994

Gary Leach
ONE Color Communications
1001 - 42nd Street
Oakland, California 94608

Dear Mr. Leach,

This letter presents the findings of a geophysical survey conducted by NORCAL Geophysical Consultants, Inc. on November 10, 1994 in Oakland, California. The survey was conducted by NORCAL Geophysicist Derrik M. Sandberg. Ron Block of Block Environmental Services and you provided site logistics and project coordination.

The investigation was located on the ground floor of the One Color Communications building located at 1001 42nd Street in Oakland, California. The survey area was situated in three of the rooms referred to as the Printing, Deep Etching, and Re-etch rooms. The survey areas were bounded by various objects such as wash racks, furniture, metal cookers, plastic drums, etc. The purpose of the survey is to collect ground penetrating radar (GPR) data wherever accessible to determine the existence of possible underground storage tanks (USTs).

GROUND PENETRATING RADAR METHOD

GPR is a method that provides a continuous, high resolution cross-section depicting variations in the electrical properties of the shallow subsurface. The method is particularly sensitive to variations in electrical conductivity and electrical permittivity (the ability of a material to hold a charge when an electrical field is applied).

The system operates by continuously radiating an electromagnetic pulse into the ground from a transducer (antenna) as it is moved along a traverse. Since most earth materials are transparent to electromagnetic energy, only a portion of the radar signal is reflected back to the surface from interfaces representing variations in electrical properties. When the signal encounters a metal object, however, all of the incident energy is reflected. The reflected signals are received by the same transducer and are printed in cross-section form on a graphical recorder. Depending upon depth and/or thickness the resulting records can provide information regarding the location



ONE Color Communications
December 9, 1994
Page 2

of UST's, underground utilities, and variations in the shallow site materials. Generally, electrically conductive materials, such as saturated clay and significant rebar can reduce the penetration capability and limit radar performance.

For this investigation, we used a Geophysical Survey Systems, Inc. SIR-3 Subsurface Interface Radar System equipped with a 500 MegaHertz (MHZ) antenna. This antenna is near the center of the available frequency range and is used to provide high resolution at shallow depths.

DATA ACQUISITION AND ANALYSIS

A survey reference grid was established in each room oriented parallel and perpendicular to the brick walls of the building. The spacing between the GPR traverses ranged from 2 to 6 feet and the length ranged from 4 to 24 feet.

The GPR records were visually examined for hyperbolic reflection patterns indicative of USTs. This reflection pattern would be produced by a traverse perpendicular to the long axis of a metallic UST.

RESULTS

A site map showing the locations of the GPR traverses are presented as Plates 1 and 2. The GPR records revealed areas of small hyperbolic reflection patterns indicative of utilities and rebar in the concrete. However, the records do not show reflection patterns indicative of USTs within the upper 1 - 3 feet in any of the three rooms.

STANDARD CARE AND WARRANTY

The scope of NORCAL's services consisted of using the ground penetrating radar technique to explore for underground storage tanks. The accuracy of our findings are subject to specific site conditions and limitations inherent to the technique used. In view of these limitations, it should be recognized that the prevailing conditions at the time of the survey may preclude the definition of some buried objects.

We appreciate having the opportunity of working with you on this investigation. If



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December 9, 1994
Page 3

you have any questions, or if we can be of further assistance, please call.

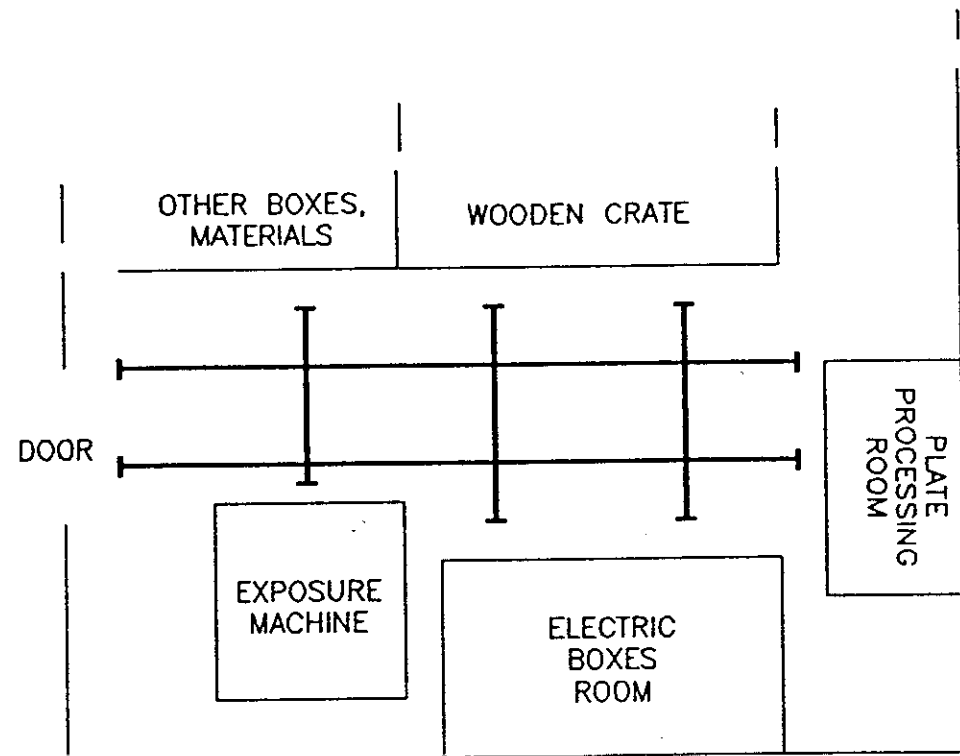
Sincerely,

NORCAL Geophysical Consultants, Inc.

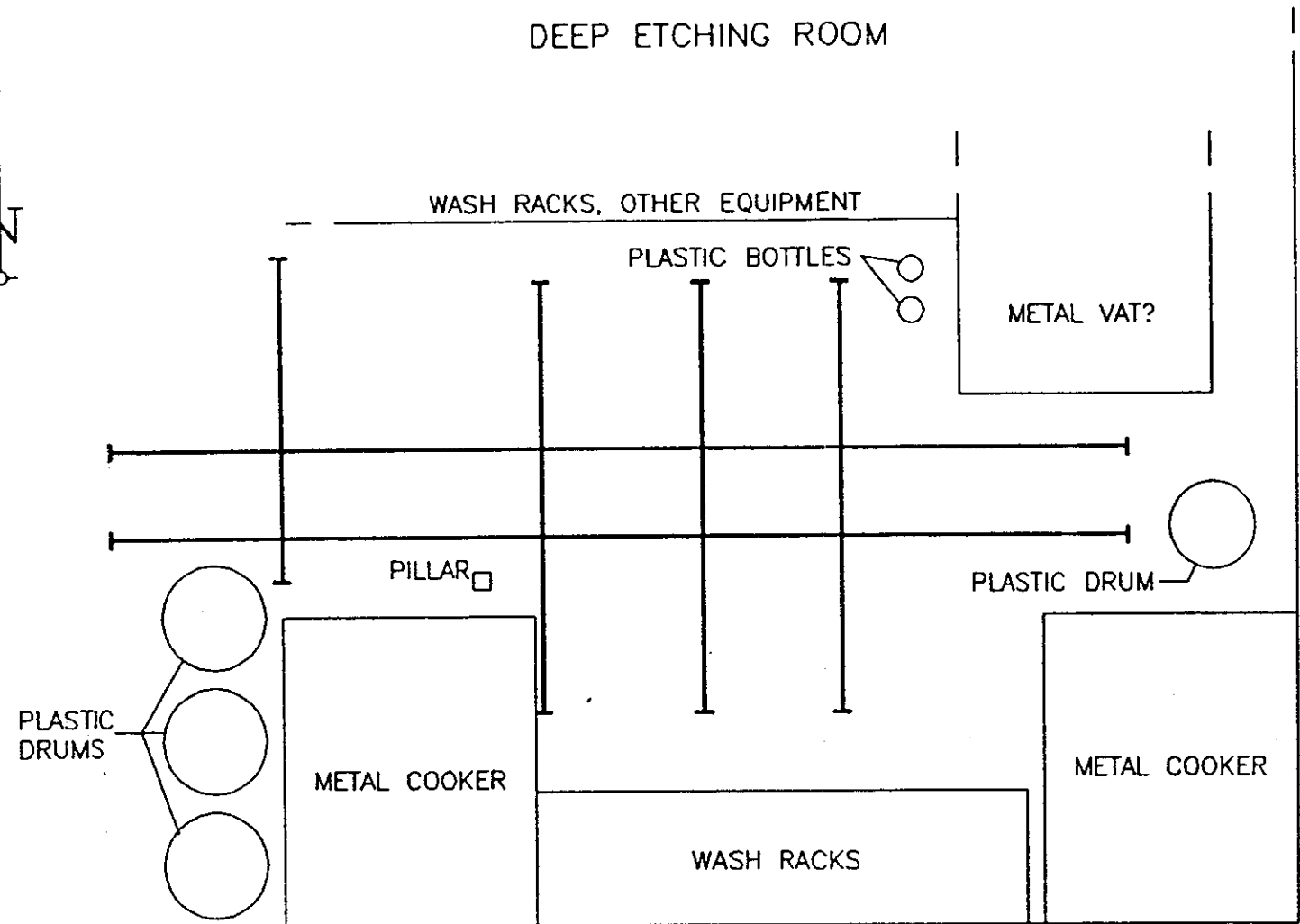
Derrik M. Sandberg
Geophysicist

Enclosure: Plates 1,2

PRINTING ROOM



DEEP ETCHING ROOM



LEGEND

— GPR TRAVERSE



SCALE (FT)

NORCAL

GEOPHYSICAL CONSULTANTS INC.



SITE LOCATION MAP

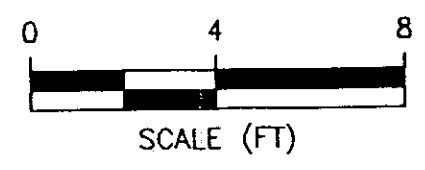
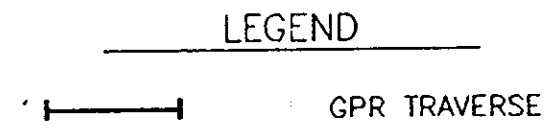
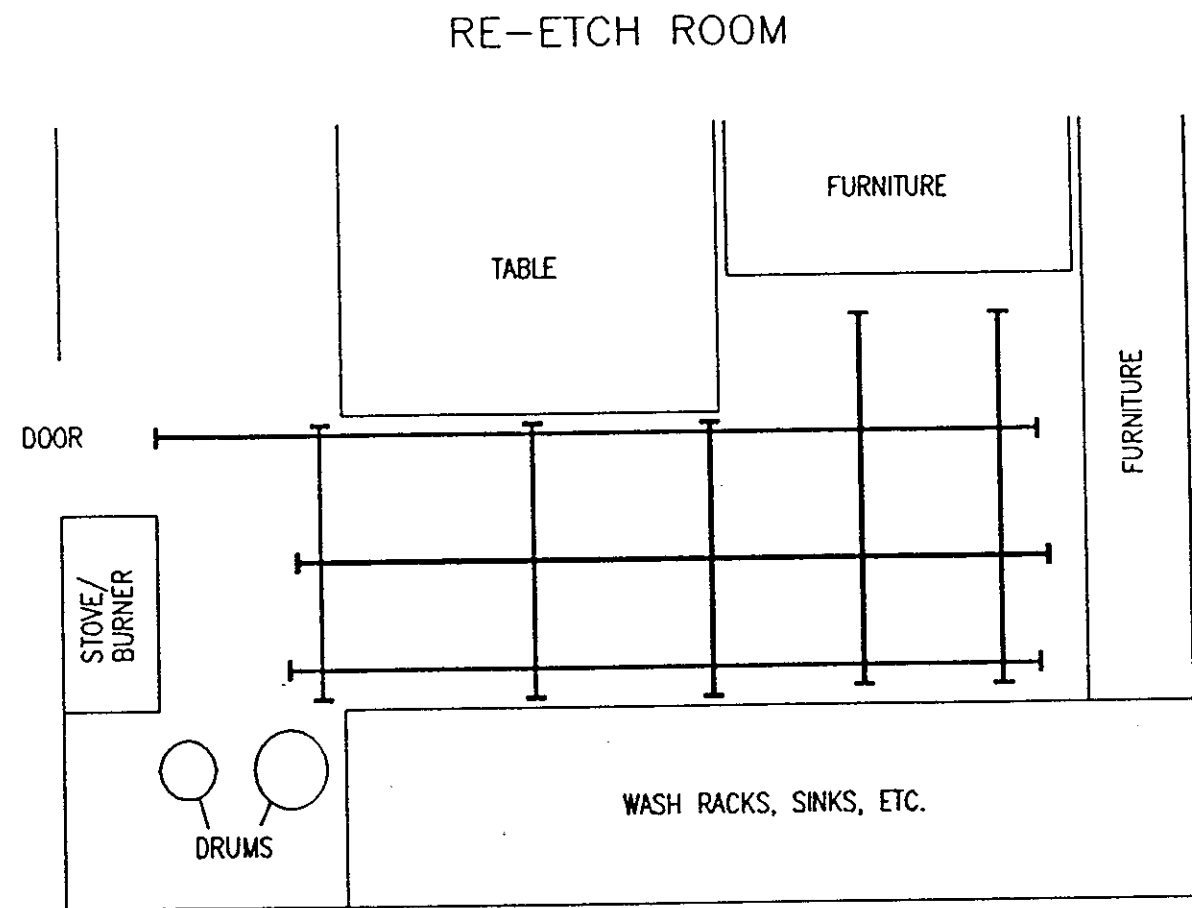
PLATE
1


JOB: 94-350.01

APPR: *[Signature]*

DATE: 12/94

GEOPHYSICAL INVESTIGATION
1001 42nd STREET
OAKLAND, CA



NORCAL <small>GEOPHYSICAL CONSULTANTS INC.</small>	 <small>NORCAL</small>	SITE LOCATION MAP		PLATE 2
		JOB: 94-350.01	APPR: <i>[Signature]</i>	



December 6, 1994

Ronald M. Block, Ph.D.
Block Environmental Services
1221 Thames Drive
Concord, CA 94518

Dear Ron,

This letter presents the findings of a geophysical survey conducted by NORCAL Geophysical Consultants, Inc. on November 10, 1994 in Oakland, California. The survey was conducted by NORCAL Geophysicist Derrik M. Sandberg. Mr. Gary Leach of One Color Communications and you provided site logistics and project coordination.

The investigation was located on the ground floor of the One Color Communications building located at 1001 42nd Street in Oakland, California. The survey area was situated in one of the rooms referred to as the neutralization room. The survey area was bounded by various objects such as the electrical switch box, wooden vats, and a brick wall. The purpose of the survey is to collect ground penetrating radar (GPR) data wherever accessible to delineate the extent of a known underground storage tank (UST).

GROUND PENETRATING RADAR METHOD

GPR is a method that provides a continuous, high resolution cross-section depicting variations in the electrical properties of the shallow subsurface. The method is particularly sensitive to variations in electrical conductivity and electrical permittivity (the ability of a material to hold a charge when an electrical field is applied).

The system operates by continuously radiating an electromagnetic pulse into the ground from a transducer (antenna) as it is moved along a traverse. Since most earth materials are transparent to electromagnetic energy, only a portion of the radar signal is reflected back to the surface from interfaces representing variations in electrical properties. When the signal encounters a metal object, however, all of the incident energy is reflected. The reflected signals are received by the same transducer and are printed in cross-section form on a graphical recorder. Depending upon depth and/or thickness the resulting records can provide information regarding the location



Block Environmental Services
December 6, 1994
Page 2

of UST's, underground utilities, and variations in the shallow site materials. Generally, electrically conductive materials, such as saturated clay and significant rebar can reduce the penetration capability and limit radar performance.

For this investigation, we used a Geophysical Survey Systems, Inc. SIR-3 Subsurface Interface Radar System equipped with a 500 megahertz (Mhz) antenna. This antenna is near the center of the available frequency range and is used to provide high resolution at shallow depths.

DATA ACQUISITION AND ANALYSIS

A survey grid was established oriented parallel and perpendicular to the brick wall of the building which is also the assumed orientation of the UST. Where accessible, GPR data were collected along the grid traverses. The spacing between the traverses ranged from 1 to 4 feet and the length ranged from 2 to 8 feet.

The GPR records were visually examined for hyperbolic reflection patterns indicative of USTs. This reflection pattern would be produced by a traverse perpendicular to the long axis of a metallic UST.

RESULTS

A site map showing the locations of the GPR traverses is presented as Plate 1. The GPR profiles indicate shallow hyperbolic reflection patterns indicative of a small UST. We estimate the top of the UST to be in the upper 1 to 1.5 feet from the floor surface. Since the centerline of the UST is 1.5 feet from the brick wall and the UST is approximately three feet in diameter, we conclude that the east side of the UST rests against the wall, and does not extend beneath it. The northern boundary of the UST is not known due to limited access around that area. Based on the information from the GPR records, the approximate surface trace of the UST was painted on the concrete surface as shown on Plate 1.

STANDARD CARE AND WARRANTY

The scope of NORCAL's services consisted of using geophysical methods to explore



Block Environmental Services
December 6, 1994
Page 3

for underground storage tanks. The accuracy of our findings are subject to specific site conditions and limitations inherent to the technique used. In view of these limitations, it should be recognized that the prevailing conditions at the time of the survey may preclude the definition of some buried objects.

We appreciate having the opportunity of working with you on this investigation. If you have any questions, or if we can be of further assistance, please call.

Sincerely,

NORCAL Geophysical Consultants, Inc.

A handwritten signature in cursive script that reads "Derrick M. Sandberg".

Derrick M. Sandberg
Geophysicist

Enclosure: Plate 1

NEUTRALIZATION ROOM

ELECTRICAL SWITCHES

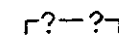
VAULT LID

WOODEN BOX
VAT

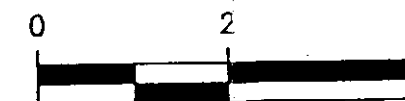
LEGEND



GPR TRAVERSE



INTERPRETED LIMITS OF
UST (DASHED WHERE
APPROXIMATE, QUERIED WHERE
INTERPOLATED)



SCALE (FT)



NORCAL

GEOPHYSICAL
CONSULTANTS
INC.



SITE LOCATION MAP

GEOPHYSICAL INVESTIGATION
1001 42nd STREET
OAKLAND, CA

PLATE

1

JOB: 94-351.01

APPR: *24*

DATE: 12/94

ATTACHMENT 3

JWD

December 14, 1994

Jordan

Woodman

Mr. Gary Leach
O.N.E. Color Communications
1001 - 42 Street
Oakland, CA 94608

Dobson

STRUCTURAL CONSEQUENCES
OF UNDERGROUND TANK REMOVAL
AT 1001 - 42ND STREET, OAKLAND, CA

Architecture

Dear Mr. Leach:

Engineering

I reviewed the area of the building adjacent to the abandoned underground storage tank to determine if the tank can be removed without causing structural distress to the building. The tank is located along the north exterior wall of the Acid Neutralizing Room.

The tank is approximately four feet in diameter and eleven feet long. The outline of the tank has been marked on the floor after being located by Norcal Geophysical Consultants, Inc. The bottom of the tank is approximately five foot below the floor surface. We believe this is lower than the adjacent foundation for the masonry wall.

A California

Corporation

We recommend that the tank not be removed, but left in place and filled with concrete. The excavation caused by the removal of the tank would undermine the adjacent exterior masonry wall foundation and may cause both settlement and lateral displacement. The masonry wall is quite old and any movement will cause serious cracking and the possibility of local collapse.

3664 Grand Ave

The tank shall be filled with a lean concrete grout mix, $f'_c = 1,000$ psi at 28 days and 3/8" maximum aggregate. Prior to placing the lean concrete grout, the tank shall be emptied and cleaned of all contaminants.

Oakland, CA

94610

We understand that you have retained a chemical laboratory to analyze the tank contents. We recommend that the laboratory verify that the grout mix will not react adversely with any remaining traces of the tanks prior contents.

510 832-5466

FAX 510 835-3464

Mr. Gary Leach
December 14, 1994
Page 2

This review consisted of visual observation only, made solely to evaluate the structural consequences of removing the subject underground tank. Neither this review nor this report is intended to cover hazardous materials, geotechnical, mechanical, electrical or architectural features.

Jordan

Woodman


The findings in this report are valid as of the present date. However, changes in the condition of a property can occur with the passage of time, due either to natural cause or the works of man.

Dobson

This report was prepared upon your request for services, and in accordance with currently accepted standards of professional engineering practice. No warranty as to the contents of this report is intended, and none shall be inferred from the statements of opinion expressed

Sincerely,

JORDAN WOODMAN DOBSON



Bruce S. Cameron, P.E.
Principal



ATTACHMENT 4



REPORT OF LABORATORY ANALYSIS

November 28, 1994

Mr. Gary Leach
Oakland National Engraving
1001 42nd St.
Oakland, CA 94608

RE: PACE Project No. 441110.513
Client Reference: Acid Neutralization UST

Dear Mr. Leach:

Enclosed is the report of laboratory analyses for samples received November 10, 1994.

Footnotes are given at the end of the report.

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

A handwritten signature in cursive script that reads "Ronald M. Chew". The signature is written in dark ink and is positioned above the printed name and title.

Ronald M. Chew
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Oakland National Engraving
 1001 42nd St.
 Oakland, CA 94608

November 28, 1994
 PACE Project Number: 441110513

Attn: Mr. Gary Leach

Client Reference: Acid Neutralization UST

PACE Sample Number: 70 0440394
 Date Collected: By Client
 Time Collected: 10:00
 Date Received: 11/10/94
 Client Sample ID: ONE-1
 Parameter

Units MDL DATE ANALYZED

INORGANIC ANALYSIS

INDIVIDUAL PARAMETERS

Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	ND	11/16/94
Flash Point, Closed Cup	Degrees C	20	>60	11/17/94
Mercury (EPA Method 7470, Cold Vapor AA)	mg/L	0.001	0.064	11/16/94
Selenium (EPA Method 7740, Furnace AAS)	mg/L	0.005	ND	11/17/94
pH (Units at 25 Degrees Celsius)	Units	0.10	8.94	11/10/94

CAM METALS IN AQUEOUS MATRIX, ICP SCAN

Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	ND	11/21/94
Barium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.20	11/21/94
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	ND	11/21/94
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	ND	11/21/94
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.04	11/21/94
Cobalt (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.04	11/21/94
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	1.4	11/21/94
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	1.4	11/21/94
Molybdenum (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND	11/21/94
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND	11/21/94
Silver (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND	11/21/94
Thallium (EPA Method 6010/200.7, ICP)	mg/L	0.2	ND	11/21/94
Vanadium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.01	11/21/94
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	3.4	11/21/94

ORGANIC ANALYSIS

VOLATILE ORGANICS, EPA METHOD 8240 GC/MS

Chloromethane	ug/L	10	ND	11/16/94
Vinyl Chloride	ug/L	10	ND	11/16/94
Bromomethane	ug/L	10	ND	11/16/94
Chloroethane	ug/L	10	ND	11/16/94
Trichlorofluoromethane	ug/L	5	ND	11/16/94



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 2

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

PACE Sample Number: 70 0440394
Date Collected: By Client
Time Collected: 10:00
Date Received: 11/10/94
Client Sample ID: ONE-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
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ORGANIC ANALYSIS

VOLATILE ORGANICS, EPA METHOD 8240 GC/MS

1,1,2-Trichlor-1,2,2-trifluoroethane	ug/L	5	ND	11/16/94
2-Butanone (MEK)	ug/L	50	ND	11/16/94
1,1-Dichloroethene	ug/L	5	ND	11/16/94
Carbon Disulfide	ug/L	5	ND	11/16/94
Acetone	ug/L	50	ND	11/16/94
Methylene Chloride	ug/L	5	ND	11/16/94
trans-1,2-Dichloroethene	ug/L	5	ND	11/16/94
1,1-Dichloroethane	ug/L	5	ND	11/16/94
Chloroform	ug/L	5	ND	11/16/94
1,1,1-Trichloroethane	ug/L	5	ND	11/16/94
1,2-Dichloroethane	ug/L	5	ND	11/16/94
Vinyl Acetate	ug/L	50	ND	11/16/94
cis-1,2-Dichloroethene	ug/L	5	ND	11/16/94
Carbon Tetrachloride	ug/L	5	ND	11/16/94
Benzene	ug/L	5	ND	11/16/94
1,2-Dichloropropane	ug/L	5	ND	11/16/94
Trichloroethene (TCE)	ug/L	5	ND	11/16/94
Bromodichloromethane	ug/L	5	ND	11/16/94
2-Chloroethyl Vinyl Ether	ug/L	10	ND	11/16/94
trans-1,3-Dichloropropene	ug/L	5	ND	11/16/94
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND	11/16/94
Toluene	ug/L	5	ND	11/16/94
cis-1,3-Dichloropropene	ug/L	5	ND	11/16/94
1,1,2-Trichloroethane	ug/L	5	ND	11/16/94
Dibromochloromethane	ug/L	5	ND	11/16/94
2-Hexanone	ug/L	50	ND	11/16/94
Tetrachloroethene	ug/L	5	ND	11/16/94
Chlorobenzene	ug/L	5	ND	11/16/94
Ethylbenzene	ug/L	5	ND	11/16/94
Bromoform	ug/L	5	ND	11/16/94
Xylene(s) Total	ug/L	5	ND	11/16/94



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 3

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

PACE Sample Number: 70 0440394
Date Collected: By Client
Time Collected: 10:00
Date Received: 11/10/94
Client Sample ID: ONE-1

Parameter	Units	MDL		DATE ANALYZED
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ORGANIC ANALYSIS

VOLATILE ORGANICS, EPA METHOD 8240 GC/MS

Styrene	ug/L	5	ND	11/16/94
1,1,2,2,-Tetrachloroethane	ug/L	5	ND	11/16/94
1,3-Dichlorobenzene	ug/L	5	ND	11/16/94
1,4-Dichlorobenzene	ug/L	5	ND	11/16/94
1,2-Dichlorobenzene	ug/L	5	ND	11/16/94
1,2-Dichloroethane-d4 (Surrog. Recovery)	%		107	11/16/94
Toluene-d8 (Surrogate Recovery)	%		93	11/16/94
4-Bromofluorobenzene (Surrog.Recovery)	%		94	11/16/94

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

Phenol	ug/L	200	ND	11/21/94
bis(2-Chloroethyl)ether	ug/L	200	ND	11/21/94
2-Chlorophenol	ug/L	200	ND	11/21/94
1,3-Dichlorobenzene	ug/L	200	ND	11/21/94
1,4-Dichlorobenzene	ug/L	200	ND	11/21/94
Benzyl Alcohol	ug/L	400	ND	11/21/94
1,2-Dichlorobenzene	ug/L	200	ND	11/21/94
2-Methylphenol	ug/L	200	ND	11/21/94
bis(2-Chloroisopropyl)ether	ug/L	200	ND	11/21/94
4-Methylphenol	ug/L	200	ND	11/21/94
n-Nitroso-di-n-propylamine	ug/L	200	ND	11/21/94
Hexachloroethane	ug/L	200	ND	11/21/94
Nitrobenzene	ug/L	200	ND	11/21/94
Isophorone	ug/L	200	ND	11/21/94
2-Nitrophenol	ug/L	200	ND	11/21/94
2,4-Dimethylphenol	ug/L	200	ND	11/21/94
bis(2-Chloroethoxy)methane	ug/L	200	ND	11/21/94
2,4-Dichlorophenol	ug/L	200	ND	11/21/94
1,2,4-Trichlorobenzene	ug/L	200	ND	11/21/94
Naphthalene	ug/L	200	ND	11/21/94
Benzoic Acid	ug/L	1000	ND	11/21/94



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 4

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

PACE Sample Number: 70 0440394
Date Collected: By Client
Time Collected: 10:00
Date Received: 11/10/94
Client Sample ID: ONE-1

Parameter	Units	MDL		DATE ANALYZED
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ORGANIC ANALYSIS

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

4-Chloroaniline	ug/L	400	ND	11/21/94
Hexachlorobutadiene	ug/L	200	ND	11/21/94
4-Chloro-3-methylphenol	ug/L	400	ND	11/21/94
2-Methylnaphthalene	ug/L	200	ND	11/21/94
Hexachlorocyclopentadiene	ug/L	200	ND	11/21/94
2,4,6-Trichlorophenol	ug/L	200	ND	11/21/94
2,4,5-Trichlorophenol	ug/L	200	ND	11/21/94
2-Chloronaphthalene	ug/L	200	ND	11/21/94
2-Nitroaniline	ug/L	1000	ND	11/21/94
Dimethylphthalate	ug/L	200	ND	11/21/94
Acenaphthylene	ug/L	200	ND	11/21/94
2,6-Dinitrotoluene	ug/L	200	ND	11/21/94
3-Nitroaniline	ug/L	1000	ND	11/21/94
Acenaphthene	ug/L	200	ND	11/21/94
2,4-Dinitrophenol	ug/L	1000	ND	11/21/94
4-Nitrophenol	ug/L	1000	ND	11/21/94
Dibenzofuran	ug/L	200	ND	11/21/94
2,4-Dinitrotoluene	ug/L	200	ND	11/21/94
Diethylphthalate	ug/L	200	ND	11/21/94
Fluorene	ug/L	200	ND	11/21/94
4-Chlorophenyl-phenylether	ug/L	200	ND	11/21/94
4-Nitroaniline	ug/L	1000	ND	11/21/94
4,6-Dinitro-2-methylphenol	ug/L	1000	ND	11/21/94
n-Nitrosodiphenylamine	ug/L	200	ND	11/21/94
4-Bromophenyl-phenylether	ug/L	200	ND	11/21/94
Hexachlorobenzene	ug/L	200	ND	11/21/94
Pentachlorophenol	ug/L	1000	ND	11/21/94
Phenanthrene	ug/L	200	ND	11/21/94
Anthracene	ug/L	200	ND	11/21/94
Di-n-butylphthalate	ug/L	200	ND	11/21/94
Fluoranthene	ug/L	200	ND	11/21/94



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 5

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

PACE Sample Number: 70 0440394
Date Collected: By Client
Time Collected: 10:00
Date Received: 11/10/94
Client Sample ID: ONE-1

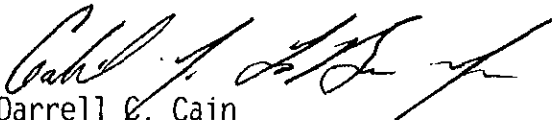
Parameter	Units	MDL		DATE ANALYZED
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ORGANIC ANALYSIS

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

Pyrene	ug/L	200	H1 ND	11/21/94
Butylbenzylphthalate	ug/L	200	ND	11/21/94
Benzo(a)anthracene	ug/L	200	ND	11/21/94
3,3'-Dichlorobenzidine	ug/L	400	ND	11/21/94
Chrysene	ug/L	200	ND	11/21/94
bis(2-Ethylhexyl)phthalate	ug/L	200	ND	11/21/94
Di-n-octylphthalate	ug/L	200	ND	11/21/94
Benzo(b)fluoranthene	ug/L	200	ND	11/21/94
Benzo(k)fluoranthene	ug/L	200	ND	11/21/94
Benzo(a)pyrene	ug/L	200	ND	11/21/94
Indeno(1,2,3-cd)pyrene	ug/L	200	ND	11/21/94
Dibenzo(a,h)anthracene	ug/L	200	ND	11/21/94
Benzo(g,h,i)perylene	ug/L	200	ND	11/21/94
2-Fluorophenol (surrogate)	%		86	11/21/94
Phenol-d6 (surrogate)	%		114	11/21/94
Nitrobenzene-d5 (surrogate)	%		140	11/21/94
2-Fluorobiphenyl (surrogate)	%		93	11/21/94
2,4,6-Tribromophenol (surrogate)	%		70	11/21/94
Terphenyl-d14 (surrogate)	%		51	11/21/94
Date Extracted			11/18/94	

These data have been reviewed and are approved for release.


Darrell E. Cain
Regional Director



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 6

FOOTNOTES
for pages 1 through 5

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

> Greater than reported value.
H1 Sample was diluted due to high levels of hydrocarbons present.
MDL Method Detection Limit
ND Not detected at or above the MDL.



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 7

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

Arsenic (EPA Method 7060, Furnace AAS)
Batch: 70 36309
Samples: 70 0440394

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700439124	Duplicate of 70 0439124	RPD
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	ND	0.017	0.017	0%

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700439124	Spike	Spike Recv	Spike Dupl Recv	RPD
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	0.017	0.040	88%	88%	0%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Arsenic (EPA Method 7060, Furnace AAS)	mg/L	0.005	0.040	93%	93%	0%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 8

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

Flash Point, Closed Cup
Batch: 70 36350
Samples: 70 0440394

SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	700440394	Duplicate of	
Flash Point, Closed Cup	Degrees C	20	ONE-1 70 0440394 70 >60	70 0440394 70 >60	RPD

LABORATORY CONTROL SAMPLE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	Reference Value	Recv
Flash Point, Closed Cup	Degrees C	20	25	100%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 9

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

Mercury (EPA Method 7470, Cold Vapor AA)
Batch: 70 36319
Samples: 70 0440394

METHOD BLANK AND SAMPLE DUPLICATE:

Parameter	Units	MDL	Method Blank	700440807	Duplicate of 70 0440807	RPD
Mercury (EPA Method 7470, Cold Vapor AA)	mg/L	0.0002	ND	ND	ND	NC

SPIKE AND SPIKE DUPLICATE:

Parameter	Units	MDL	700440807	Spike	Spike Recv	Spike Dupl Recv	RPD
Mercury (EPA Method 7470, Cold Vapor AA)	mg/L	0.0002	ND	0.0010	103%	96%	7%

LABORATORY CONTROL SAMPLE:

Parameter	Units	MDL	Reference Value	Recv
Mercury (EPA Method 7470, Cold Vapor AA)	mg/L	0.0002	0.0010	104%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 10

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

Selenium (EPA Method 7740, Furnace AAS)
Batch: 70 36332
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Selenium (EPA Method 7740, Furnace AAS)	mg/L	0.005	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dup1 Recv	RPD
Selenium (EPA Method 7740, Furnace AAS)	mg/L	0.005	0.0100	111%	98%	12%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 11

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

pH (Units at 25 Degrees Celsius)
Batch: 70 36119
Samples: 70 0440394

SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>700439027</u>	Duplicate of <u>70 0439027</u>	<u>RPD</u>
pH (Units at 25 Degrees Celsius)	Units	0.10	7.12	7.06	1%

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Reference Value</u>	<u>Recv</u>	<u>Dupl Recv</u>	<u>RPD</u>
pH (Units at 25 Degrees Celsius)	Units	0.10	7.00	100%	99%	1%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 12

QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

CAM METALS IN AQUEOUS MATRIX, ICP SCAN
Batch: 70 36452
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	ND
Barium (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	ND
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	ND
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Cobalt (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	ND
Molybdenum (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	ND
Silver (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Thallium (EPA Method 6010/200.7, ICP)	mg/L	0.2	ND
Vanadium (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	ND

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Antimony (EPA Method 6010/200.7, ICP)	mg/L	0.06	0.5	91%	93%	2%
Barium (EPA Method 6010/200.7, ICP)	mg/L	0.01	2.0	96%	96%	0%
Beryllium (EPA Method 6010/200.7, ICP)	mg/L	0.007	0.05	98%	101%	3%
Cadmium (EPA Method 6010/200.7, ICP)	mg/L	0.005	0.05	83%	89%	7%
Chromium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.2	97%	97%	0%
Cobalt (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.5	98%	99%	1%
Copper (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.25	94%	96%	2%
Lead (EPA Method 6010/200.7, ICP)	mg/L	0.1	0.5	101%	100%	1%
Molybdenum (EPA Method 6010/200.7, ICP)	mg/L	0.02	1.0	94%	95%	1%
Nickel (EPA Method 6010/200.7, ICP)	mg/L	0.02	0.5	94%	97%	3%
Silver (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.05	89%	89%	0%
Thallium (EPA Method 6010/200.7, ICP)	mg/L	0.2	2.0	95%	95%	0%
Vanadium (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.5	97%	98%	1%
Zinc (EPA Method 6010/200.7, ICP)	mg/L	0.01	0.5	96%	98%	2%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

Batch: 70 36398
Samples: 70 0440394

METHOD BLANK:

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>Method Blank</u>
Phenol	ug/L	10	ND
bis(2-Chloroethyl)ether	ug/L	10	ND
2-Chlorophenol	ug/L	10	ND
1,3-Dichlorobenzene	ug/L	10	ND
1,4-Dichlorobenzene	ug/L	10	ND
Benzyl Alcohol	ug/L	20	ND
1,2-Dichlorobenzene	ug/L	10	ND
2-Methylphenol	ug/L	10	ND
bis(2-Chloroisopropyl)ether	ug/L	10	ND
4-Methylphenol	ug/L	10	ND
n-Nitroso-di-n-propylamine	ug/L	10	ND
Hexachloroethane	ug/L	10	ND
Nitrobenzene	ug/L	10	ND
Isophorone	ug/L	10	ND
2-Nitrophenol	ug/L	10	ND
2,4-Dimethylphenol	ug/L	10	ND
bis(2-Chloroethoxy)methane	ug/L	10	ND
2,4-Dichlorophenol	ug/L	10	ND
1,2,4-Trichlorobenzene	ug/L	10	ND
Naphthalene	ug/L	10	ND
Benzoic Acid	ug/L	50	ND
4-Chloroaniline	ug/L	20	ND
Hexachlorobutadiene	ug/L	10	ND
4-Chloro-3-methylphenol	ug/L	20	ND
2-Methylnaphthalene	ug/L	10	ND
Hexachlorocyclopentadiene	ug/L	10	ND
2,4,6-Trichlorophenol	ug/L	10	ND
2,4,5-Trichlorophenol	ug/L	10	ND
2-Chloronaphthalene	ug/L	10	ND
2-Nitroaniline	ug/L	50	ND
Dimethylphthalate	ug/L	10	ND
Acenaphthylene	ug/L	10	ND



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

Batch: 70 36398
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
2,6-Dinitrotoluene	ug/L	10	ND
3-Nitroaniline	ug/L	50	ND
Acenaphthene	ug/L	10	ND
2,4-Dinitrophenol	ug/L	50	ND
4-Nitrophenol	ug/L	50	ND
Dibenzofuran	ug/L	10	ND
2,4-Dinitrotoluene	ug/L	10	ND
Diethylphthalate	ug/L	10	ND
Fluorene	ug/L	10	ND
4-Chlorophenyl-phenylether	ug/L	10	ND
4-Nitroaniline	ug/L	50	ND
4,6-Dinitro-2-methylphenol	ug/L	50	ND
n-Nitrosodiphenylamine	ug/L	10	ND
4-Bromophenyl-phenylether	ug/L	10	ND
Hexachlorobenzene	ug/L	10	ND
Pentachlorophenol	ug/L	50	ND
Phenanthrene	ug/L	10	ND
Anthracene	ug/L	10	ND
Di-n-butylphthalate	ug/L	10	ND
Fluoranthene	ug/L	10	ND
Pyrene	ug/L	10	ND
Butylbenzylphthalate	ug/L	10	ND
Benzo(a)anthracene	ug/L	10	ND
3,3'-Dichlorobenzidine	ug/L	20	ND
Chrysene	ug/L	10	ND
bis(2-Ethylhexyl)phthalate	ug/L	10	ND
Di-n-octylphthalate	ug/L	10	ND
Benzo(b)fluoranthene	ug/L	10	ND
Benzo(k)fluoranthene	ug/L	10	ND
Benzo(a)pyrene	ug/L	10	ND
Indeno(1,2,3-cd)pyrene	ug/L	10	ND
Dibenzo(a,h)anthracene	ug/L	10	ND



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

EXTRACTABLE ORGANICS BY EPA 8270 (GC/MS)

Batch: 70 36398
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Benzo(g,h,i)perylene	ug/L	10	ND
2-Fluorophenol (surrogate)	%		88
Phenol-d6 (surrogate)	%		91
Nitrobenzene-d5 (surrogate)	%		93
2-Fluorobiphenyl (surrogate)	%		84
2,4,6-Tribromophenol (surrogate)	%		78
Terphenyl-d14 (surrogate)	%		81

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
Phenol	ug/L	10	150	78%	65%	18%
2-Chlorophenol	ug/L	10	150	77%	63%	20%
1,4-Dichlorobenzene	ug/L	10	100	76%	63%	19%
n-Nitroso-di-n-propylamine	ug/L	10	100	89%	88%	1%
1,2,4-Trichlorobenzene	ug/L	10	100	82%	75%	9%
4-Chloro-3-methylphenol	ug/L	20	150	82%	79%	4%
Acenaphthene	ug/L	10	100	84%	87%	4%
4-Nitrophenol	ug/L	50	150	100%	95%	5%
2,4-Dinitrotoluene	ug/L	10	100	111%	108%	3%
Pentachlorophenol	ug/L	50	150	98%	95%	3%
Pyrene	ug/L	10	100	55%	60%	9%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

VOLATILE ORGANICS, EPA METHOD 8240 GC/MS

Batch: 70 36325
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chloromethane	ug/L	10	ND
Vinyl Chloride	ug/L	10	ND
Bromomethane	ug/L	10	ND
Chloroethane	ug/L	10	ND
Trichlorofluoromethane	ug/L	5	ND
1,1,2-Trichloro-1,2,2-trifluoroethane	ug/L	5	ND
2-Butanone (MEK)	ug/L	50	ND
1,1-Dichloroethene	ug/L	5	ND
Carbon Disulfide	ug/L	5	ND
Acetone	ug/L	50	ND
Methylene Chloride	ug/L	5	ND
trans-1,2-Dichloroethene	ug/L	5	ND
1,1-Dichloroethane	ug/L	5	ND
Chloroform	ug/L	5	ND
1,1,1-Trichloroethane	ug/L	5	ND
1,2-Dichloroethane	ug/L	5	ND
Vinyl Acetate	ug/L	50	ND
cis-1,2-Dichloroethene	ug/L	5	ND
Carbon Tetrachloride	ug/L	5	ND
Benzene	ug/L	5	ND
1,2-Dichloropropane	ug/L	5	ND
Trichloroethene (TCE)	ug/L	5	ND
Bromodichloromethane	ug/L	5	ND
2-Chloroethyl Vinyl Ether	ug/L	10	ND
trans-1,3-Dichloropropene	ug/L	5	ND
4-Methyl-2-pentanone (MIBK)	ug/L	50	ND
Toluene	ug/L	5	ND
cis-1,3-Dichloropropene	ug/L	5	ND
1,1,2-Trichloroethane	ug/L	5	ND
Dibromochloromethane	ug/L	5	ND
2-Hexanone	ug/L	50	ND
Tetrachloroethene	ug/L	5	ND



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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QUALITY CONTROL DATA

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

VOLATILE ORGANICS, EPA METHOD 8240 GC/MS

Batch: 70 36325
Samples: 70 0440394

METHOD BLANK:

Parameter	Units	MDL	Method Blank
Chlorobenzene	ug/L	5	ND
Ethylbenzene	ug/L	5	ND
Bromoform	ug/L	5	ND
Xylene(s) Total	ug/L	5	ND
Styrene	ug/L	5	ND
1,1,2,2,-Tetrachloroethane	ug/L	5	ND
1,3-Dichlorobenzene	ug/L	5	ND
1,4-Dichlorobenzene	ug/L	5	ND
1,2-Dichlorobenzene	ug/L	5	ND
1,2-Dichloroethane-d4 (Surrog. Recovery)	%		106
Toluene-d8 (Surrogate Recovery)	%		96
4-Bromofluorobenzene (Surrog.Recovery)	%		97

LABORATORY CONTROL SAMPLE AND CONTROL SAMPLE DUPLICATE:

Parameter	Units	MDL	Reference Value	Recv	Dupl Recv	RPD
1,1-Dichloroethene	ug/L	5	20	105%	103%	2%
Benzene	ug/L	5	20	93%	93%	0%
Trichloroethene (TCE)	ug/L	5	20	104%	107%	3%
Toluene	ug/L	5	20	97%	104%	7%
Chlorobenzene	ug/L	5	20	94%	93%	1%



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
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FOOTNOTES
for pages 7 through 17

November 28, 1994
PACE Project Number: 441110513

Client Reference: Acid Neutralization UST

- > Greater than reported value.
- MDL Method Detection Limit
- NC No calculation due to value below detection limit.
- ND Not detected at or above the MDL.
- RPD Relative Percent Difference



44110.513

Ron Chew (415)883-6100

58872

CHAIN-OF-CUSTODY RECORD
Analytical Request

Client Oakland National Engraving (O.N.E.)

Report To: Gary Leach

Pace Client No. CN 781653

Address 1001 42nd Street

Bill To: O.N.E.

Pace Project Manager Ron Chew

(~~XXXXXXXXXXXXXXXXXXXX~~) Oakland, CA 94608

P.O. # / Billing Reference

Pace Project No.

Phone (510)450-7224

Project Name / No.

*Requested Due Date:

Sampled By (PRINT):

Sampler Signature

Date Sampled

ITEM NO.	SAMPLE DESCRIPTION	TIME	MATRIX	PACE NO.	NO. OF CONTAINERS	PRESERVATIVES				ANALYSES REQUEST	REMARKS
						UNPRESERVED	H ₂ SO ₄	HNO ₃	VOA 8240		
1	Liquid ONE-1	10:00	Liquid	440394	3	X		X		X	Containers present SAME SAMPLE - only one analysis for each method requested
2	GNE-1	10:00	Liquid		2	X				X X X	
3	GNE-1	10:00	Liquid		1		X			X	
4											
5											
6											
7											
8											

COOLER NOS.	BAILERS	SHIPMENT METHOD		ITEM NUMBER	RELINQUISHED BY / AFFILIATION	ACCEPTED BY / AFFILIATION	DATE	TIME
OUT / DATE	RETURNED / DATE							
					<i>[Signature]</i>	<i>[Signature]</i>	11/9/99	10:00
					<i>[Signature]</i>	<i>[Signature]</i>	11/9/99	4:45

Additional Comments
Please call Ron Block at (510) 682-7200
if any questions

Courier Recd at : 4:00

ORIGINAL

SEE REVERSE SIDE FOR INSTRUCTIONS

Date: November 17, 1994

To: Ms. Gary Leach
One Color Communications
1001 42 nd Street
Oakland, CA 94608

From: Phyllis Riboni
Chronic and Acute Effluent
Testing Specialist

Julianne C. Fegley
Laboratory Coordinator

Subject: Aquatic Toxicity Testing Results for Hazardous Waste Testing
P.O.#verbal

SAMPLE MATRIX AND I.D.: One water sample #13121 (ONE1).

TREATMENT DILUTIONS (mg/L): 250, 500, 750 and Control run in soft carbon filtered tap water mixed with deionized water of 40-48 mg/L hardness and in duplicate with 10 fish/6 L tank and 20 fish/treatment.

TESTING PERIOD: Received 11/10/94; Tested 11/11/94 - 11/15/94.

BIOASSAY TEST(S): Fathead minnow (*Pimephales promelas*) 96-hour static Hazardous Waste Toxicity.

METHODS: Hazardous waste aquatic toxicity test protocol is based on "Standard Methods for the Examination of Water and Wastewater", 18th Edition, American Public Health Association, 1992; California's Title 22 Code, Section #66261.24(a)(6); "Static Acute Bioassay Procedures for Hazardous Waste Samples" (Polisini and Miller, 1988), California Department of Fish and Game; and as certified by the State of California's Department of Toxic Substance Control (CA. EPA).

SUMMARY:

Fathead minnow 96-hour percent survival in the Control was 95%. ✓
Fathead minnow 96-hour percent survival in the test concentrations was 90% for 250 mg/L, 85% for 500 mg/L and 85% for 750 mg/L.

The 96-hour LC50 >750 mg/L for sample #13121 (ONE1).

The transcribed data sheets and chain-of-custody for this test are enclosed. If you have any questions concerning this report please contact Linda Mortensen, Hazardous Waste and Acute Effluent Testing Specialist, at the lab (510) 686-3215.

BES Laboratory Division
 2455 Estand Way
 Pleasant Hill, CA 94523
 (510) 686-3215

STATIC ACUTE BIOASSAY
 Hazardous Waste Test
 Fathead Minnow

BES

CLIENT: One Color Communications ATTENTION: Gary Leach
 SAMPLE ID#: 13121 SAMPLE DESCRIPTION: Water TESTING DATES: 11/11/94 to 11/15/94
 CLIENT ID#: One1

TEST CONCENTRATION mg/L	11/11/94 INITIAL				11/12/94 24-HOUR				11/13/94 48-HOUR				11/15/94 72-HOUR				11/16/94 96-HOUR, FINAL			
	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp
			mg/L	° C			mg/L	° C			mg/L	° C			mg/L	° C			mg/L	° C
Control-A	10	7.8	7.9	19.4	10	7.5	7.5	20.9	10	7.5	7.3	19.5	9	7.4	9.2	20.0	9	7.5	7.4	19.9
Control-B	10	7.8	7.6	19.4	10	7.3	8.4	21.0	10	7.3	8.0	19.5	10	7.5	9.2	20.0	10	7.4	7.0	19.9
250-A	10	7.6	8.1	19.0	10	7.1	8.2	21.4	10	7.4	8.0	19.4	10	7.2	9.0	20.0	10	6.9	5.9	20.3
250-B	10	7.7	8.1	19.0	10	7.1	7.6	21.4	10	7.3	8.9	19.3	9	7.1	9.0	20.3	8	6.9	5.9	20.4
500-A	10	7.7	8.1	18.9	10	7.0	7.4	21.4	10	7.2	8.3	19.0	10	7.0	8.9	20.4	9	7.0	5.8	20.0
500-B	10	7.8	7.9	19.0	10	7.0	7.6	21.4	10	7.1	8.2	19.0	9	7.0	8.9	20.2	8	6.9	5.8	20.1
750-A	10	7.8	7.9	19.1	9	7.0	7.6	21.4	9	7.1	8.2	18.9	8	7.0	8.8	20.1	8	7.1	6.1	19.8
750-B	10	7.8	7.7	19.1	9	7.1	7.7	21.4	9	7.0	8.1	18.9	9	7.0	8.8	20.2	9	7.1	6.1	19.9

96-hr. LC50: > 750 mg/L

95% Confidence Limits: NA

96-hr. Final Percent Survival: Control = 95%; 250 mg/L = 90%; 500 mg/L = 85%; 750 mg/L = 85%

Remarks: Initial Alkalinity, Hardness (mg/L): Control = 35,48; 750 mg/L = 32,46

Final Alkalinity, Hardness (mg/L): Control = 37,51; 750 mg/L = 30,37

Total vol/replicate: (L) = 6

Test Supervisor: *[Signature]*

Verification: *[Signature]*

BES Laboratory Division
 2455 Estand Way
 Pleasant Hill, CA 94523
 (510) 686-3215

STATIC ACUTE BIOASSAY
 Hazardous Waste Test
 Fathead Minnow

CLIENT: ONE COLOR COMMUNICATIONS ATTENTION: CARY LEACH
 SAMPLE ID#: 13121 SAMPLE DESCRIPTION: WATER TESTING DATES: 11/11/94 to 11/15/94
 CLIENT ID#:

TEST CONCENTRATION mg/L	11/11 1650 INITIAL AM				11/12 1120 24-HOUR AM				11/13/94 11:20 48-HOUR LC				11/14/94 1110 72-HOUR LC				11/15/94 1303 96-HOUR, FINAL AM			
	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp	Live	pH	DO	Temp
			mg/L	°C			mg/L	°C			mg/L	°C			mg/L	°C			mg/L	°C
Control-A	10	7.8	7.9	19.4	10	7.5	7.5	20.9	10	7.5	7.3	19.5	9	7.4	9.0	20.0	9	7.5	7.4	19.9
Control-B	10	7.8	7.6	19.4	10	7.3	8.4	21.0	10	7.3	8.0	19.5	10	7.5	9.0	20.0	10	7.4	7.0	19.9
250-A	10	7.6	8.1	19.0	10	7.1	8.8	21.4	10	7.4	8.0	19.4	10	7.2	9.0	20.0	10	6.9	5.9	20.3
250-B	10	7.7	8.1	19.0	10	7.1	7.6	21.4	10	7.3	8.4	19.3	10	7.1	9.0	20.3	10	6.9	5.9	20.4
500-A	10	7.7	8.1	18.9	10	7.0	7.4	21.4	10	7.2	8.3	19.0	10	7.0	8.9	20.4	10	7.0	5.8	20.0
500-B	10	7.8	7.9	19.0	10	7.0	7.6	21.4	10	7.1	8.2	19.0	9	7.0	8.9	20.2	9	6.9	5.8	20.1
750-A	10	7.8	7.9	19.1	9	7.0	7.6	21.4	9	7.1	8.2	19.9	8	7.0	8.8	20.1	8	7.1	6.1	19.8
750-B	10	7.8	7.7	19.1	9	7.1	7.7	21.4	9	7.0	8.1	18.9	9	7.0	8.8	20.2	9	7.1	6.1	19.9

96-hr. LC50:

7750 mg/L

95% Confidence Limits:

NA

96-hr. Final Percent Survival:

Control = 95%; 250 mg/L = 90%; 500 mg/L = 85%; 750 mg/L = 85%

Remarks:

Initial Alkalinity, Hardness (mg/L): Control = 33.4; 750 mg/L = 12.14

Final Alkalinity, Hardness (mg/L): Control = 37.5; 750 mg/L = 30.37

FISH STOCK DATE 11-7-94

Total vol/replicate: (L) = 6

Test Supervisor:

pe

Verification:

le

HAZWASTE

BES



**BLOCK ENVIRONMENTAL SERVICES
FISH BIOASSAY MEASUREMENTS**

Fathead Minnow

For: One Color Communications

Sample ID#: 13121 Stock Date: 11/7/94

Client ID#: ONE1

Average Length: 30.3 mm SL
 Standard D. (S): 2.95 mm SL
 Maximum Length: 36.0 mm SL
 Minimum Length: 26.0 mm SL

Average Weight: 0.438 g
 Standard D. (S): 0.115 g
 Maximum Weight: 0.62 g
 Minimum Weight: 0.24 g

Fish Length (mm SL)

1.	<u>26.0</u>
2.	<u>31.0</u>
3.	<u>31.0</u>
4.	<u>36.0</u>
5.	<u>32.0</u>
6.	<u>28.0</u>
7.	<u>28.0</u>
8.	<u>28.0</u>
9.	<u>33.0</u>
10.	<u>30.0</u>

Fish Weight (g)

1.	<u>0.24</u>
2.	<u>0.52</u>
3.	<u>0.41</u>
4.	<u>0.62</u>
5.	<u>0.38</u>
6.	<u>0.41</u>
7.	<u>0.38</u>
8.	<u>0.39</u>
9.	<u>0.61</u>
10.	<u>0.42</u>

Remarks:

Measured: 11/7/94



REPORT OF LABORATORY ANALYSIS

January 04, 1995

*From: Ron Block
1/9/95
Gary Leach*

Mr. Gary Leach
Oakland National Engraving
1001 42nd St.
Oakland, CA 94608

RE: PACE Project No. 441229.506
Client Reference: Acid Neutralization Rm.

Dear Mr. Leach:

Enclosed is the report of laboratory analyses for samples received December 29, 1994. This additional analysis was performed at your request for your information only. You were also informed that this analysis was performed out of regulatory holding time.

Footnotes are given at the end of the report

If you have any questions concerning this report, please feel free to contact us.

Sincerely,

Ronald M. Chew
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

Oakland National Engraving
 1001 42nd St.
 Oakland, CA 94608

January 04, 1995
 PACE Project Number: 441229506

Attn: Mr. Gary Leach

Client Reference: Acid Neutralization Rm.

PACE Sample Number:
 Date Collected:
 Date Received:

70 0457440
 By Client
 12/29/94
 One-1

<u>Parameter</u>	<u>Units</u>	<u>MDL</u>	<u>DATE ANALYZED</u>
------------------	--------------	------------	----------------------

ORGANIC ANALYSIS

EXTRACTABLE FUELS EPA 3510/8015			
Extractable Fuels, as Diesel	mg/L	1.25	24
Extractable Fuels, as Kerosene	mg/L	7.50	20 (1)
			01/03/95
			01/03/95

These data have been reviewed and are approved for release.

Darrell C. Cain
 Darrell C. Cain
 Regional Director

441229506



REPORT OF LABORATORY ANALYSIS

Mr. Gary Leach
Page 2

FOOTNOTES
for page 1

January 04, 1995
PACE Project Number: 441229506

Client Reference: Acid Neutralization Rm.

MDL (1) Method Detection Limit
These amounts were quantitated from one point kerosene and motor oil curves .
There are some early hydrocarbons that fall in the kerosene window as well as
late hydrocarbons in the motor oil window.
This analysis was ran using the EPA 8270 extract extracted earlier under
PACE Project # 441110.513.



REPORT OF LABORATORY ANALYSIS

February 22, 1995

Mr. Gary Leach
Oakland National Engraving
1001 42nd. St.
Oakland, CA 94608

RE: PACE Project Number: 70628
Client Project ID: WATER SAMPLES

Dear Mr. Leach:

Enclosed are the results of analyses for samples received on February 10, 1995. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Ron Chew
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

DATE: 02/22/95

PAGE: 1

Oakland National Engraving
1001 42nd. St.
Oakland, CA 94608

PACE Project Number: 70628
Client Project ID: WATER SAMPLES

Attn: Mr. Gary Leach
Phone: (510)450-7224

PACE Sample No: 7037575 Date Collected: 02/10/95
Client Sample ID: 1A Date Received: 02/10/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
GC/MS -- Semi-VOA								
Semivolatile Organics								
Phenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	108-95-2	
bis(2-Chloroethyl) ether	ND	ug/L	380	02/20/95	EPA 8270	CBD	111-44-4	
2-Chlorophenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	95-57-8	
1,3-Dichlorobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	541-73-1	
1,4-Dichlorobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	106-46-7	
Benzyl Alcohol	ND	ug/L	760	02/20/95	EPA 8270	CBD	100-51-6	
1,2-Dichlorobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	95-50-1	
2-Methylphenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	95-48-7	
bis(2-Chloroisopropyl) ether	ND	ug/L	380	02/20/95	EPA 8270	CBD	39638-32-9	
4-Methylphenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	106-44-5	
N-Nitroso-di-n-propylamine	ND	ug/L	380	02/20/95	EPA 8270	CBD	621-64-7	
Hexachloroethane	ND	ug/L	380	02/20/95	EPA 8270	CBD	67-72-1	
Nitrobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	98-95-3	
Isophorone	ND	ug/L	380	02/20/95	EPA 8270	CBD	78-59-1	
2-Nitrophenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	88-75-5	
2,4-Dimethylphenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	105-67-9	
Benzoic Acid	ND	ug/L	1900	02/20/95	EPA 8270	CBD	65-85-0	
bis(2-Chloroethoxy) methane	ND	ug/L	380	02/20/95	EPA 8270	CBD	111-91-1	
2,4-Dichlorophenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	120-83-2	
1,2,4-Trichlorobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	120-82-1	
Naphthalene	ND	ug/L	380	02/20/95	EPA 8270	CBD	91-20-3	
4-Chloroaniline	ND	ug/L	760	02/20/95	EPA 8270	CBD	106-47-8	
Hexachlorobutadiene	ND	ug/L	380	02/20/95	EPA 8270	CBD	87-68-3	
4-Chloro-3-methylphenol	ND	ug/L	760	02/20/95	EPA 8270	CBD	59-50-7	
2-Methylnaphthalene	ND	ug/L	380	02/20/95	EPA 8270	CBD	91-57-6	
Hexachlorocyclopentadiene	ND	ug/L	380	02/20/95	EPA 8270	CBD	77-47-4	
2,4,6-Trichlorophenol	ND	ug/L	380	02/20/95	EPA 8270	CBD	88-06-2	
2,4,5-Trichlorophenol	ND	ug/L	1900	02/20/95	EPA 8270	CBD	95-95-4	
2-Chloronaphthalene	ND	ug/L	380	02/20/95	EPA 8270	CBD	91-58-7	

REPORT OF LABORATORY ANALYSIS

DATE: 02/22/95

PAGE: 2

PACE Project Number: 70628

Client Project ID: WATER SAMPLES

PACE Sample No: 7037575 Date Collected: 02/10/95
 Client Sample ID: 1A Date Received: 02/10/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
2-Nitroaniline	ND	ug/L	1900	02/20/95	EPA 8270	CBD	88-74-4	
Dimethylphthalate	ND	ug/L	380	02/20/95	EPA 8270	CBD	131-11-3	
Acenaphthylene	ND	ug/L	380	02/20/95	EPA 8270	CBD	208-96-8	
2,6-Dinitrotoluene	ND	ug/L	380	02/20/95	EPA 8270	CBD	606-20-2	
3-Nitroaniline	ND	ug/L	1900	02/20/95	EPA 8270	CBD	99-09-2	
Acenaphthene	ND	ug/L	380	02/20/95	EPA 8270	CBD	83-32-9	
2,4-Dinitrophenol	ND	ug/L	1900	02/20/95	EPA 8270	CBD	51-28-5	
4-Nitrophenol	ND	ug/L	1900	02/20/95	EPA 8270	CBD	100-02-7	
Dibenzofuran	ND	ug/L	380	02/20/95	EPA 8270	CBD	132-64-9	
2,4-Dinitrotoluene	ND	ug/L	380	02/20/95	EPA 8270	CBD	121-14-2	
Diethylphthalate	ND	ug/L	380	02/20/95	EPA 8270	CBD	84-66-2	
4-Chlorophenyl-phenylether	ND	ug/L	380	02/20/95	EPA 8270	CBD	7005-72-3	
Fluorene	ND	ug/L	380	02/20/95	EPA 8270	CBD	86-73-7	
4-Nitroaniline	ND	ug/L	1900	02/20/95	EPA 8270	CBD	100-01-6	
4,6-Dinitro-2-methylphenol	ND	ug/L	1900	02/20/95	EPA 8270	CBD	534-52-1	
N-Nitrosodiphenylamine	ND	ug/L	380	02/20/95	EPA 8270	CBD	86-30-6	
4-Bromophenyl-phenylether	ND	ug/L	380	02/20/95	EPA 8270	CBD	101-55-3	
Hexachlorobenzene	ND	ug/L	380	02/20/95	EPA 8270	CBD	118-74-1	
Pentachlorophenol	ND	ug/L	1900	02/20/95	EPA 8270	CBD	87-86-5	
Phenanthrene	ND	ug/L	380	02/20/95	EPA 8270	CBD	85-01-8	
Anthracene	ND	ug/L	380	02/20/95	EPA 8270	CBD	120-12-7	
Di-n-butylphthalate	1200	ug/L	380	02/20/95	EPA 8270	CBD	84-74-2	
Fluoranthene	ND	ug/L	380	02/20/95	EPA 8270	CBD	206-44-0	
Pyrene	ND	ug/L	380	02/20/95	EPA 8270	CBD	129-00-0	
Butyl benzyl phthalate	ND	ug/L	380	02/20/95	EPA 8270	CBD	85-68-7	
3,3'-Dichlorobenzidine	ND	ug/L	760	02/20/95	EPA 8270	CBD	91-94-1	
Benzo(a)anthracene	ND	ug/L	380	02/20/95	EPA 8270	CBD	56-55-3	
Chrysene	ND	ug/L	380	02/20/95	EPA 8270	CBD	218-01-9	
bis(2-Ethylhexyl)phthalate	ND	ug/L	380	02/20/95	EPA 8270	CBD	117-81-7	
Di-n-octylphthalate	ND	ug/L	380	02/20/95	EPA 8270	CBD	117-84-0	
Benzo(b)fluoranthene	ND	ug/L	380	02/20/95	EPA 8270	CBD	205-99-2	
Benzo(k)fluoranthene	ND	ug/L	380	02/20/95	EPA 8270	CBD	207-08-9	
Benzo(a)pyrene	ND	ug/L	380	02/20/95	EPA 8270	CBD	50-32-8	
Indeno (1,2,3-cd) pyrene	ND	ug/L	380	02/20/95	EPA 8270	CBD	193-39-5	
Dibenz(a,h)anthracene	ND	ug/L	380	02/20/95	EPA 8270	CBD	53-70-3	
Benzo(g,h,i)perylene	ND	ug/L	380	02/20/95	EPA 8270	CBD	191-24-2	
Nitrobenzene-d5 (S)	0	%		02/20/95	EPA 8270	CBD	4165-60-0	
2-Fluorobiphenyl (S)	0	%		02/20/95	EPA 8270	CBD	321-60-8	
Terphenyl-D14 (S)	0	%		02/20/95	EPA 8270	CBD	1718-51-0	
Phenol-d5 (S)	0	%		02/20/95	EPA 8270	CBD	13127-88-3	



REPORT OF LABORATORY ANALYSIS

DATE: 02/22/95

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PACE Project Number: 70628

Client Project ID: WATER SAMPLES

PACE Sample No: 7037575

Date Collected: 02/10/95

Client Sample ID: 1A

Date Received: 02/10/95

Parameters	Results	Units	PRL	Analyzed	Method	Analyst	CAS#	Footnotes
2-Fluorophenol (S)	0	µ		02/20/95	EPA 8270	CBD	367-12-4	
2,4,6-Tribromophenol (S)	0	µ		02/20/95	EPA 8270	CBD	118-79-6	1
Date Extracted				02/13/95				



REPORT OF LABORATORY ANALYSIS

DATE: 02/22/95

PAGE: 4

PACE Project Number: 70628

Client Project ID: WATER SAMPLES

PARAMETER FOOTNOTES

ND Not Detected
NC Not Calculable
PRL PACE Reporting Limit
(S) Surrogate
[1] Surrogate standards were not recovered due to sample dilution.



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 02/22/95

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Oakland National Engraving
1001 42nd. St.
Oakland, CA 94608

PACE Project Number: 70628
Client Project ID: WATER SAMPLES

Attn: Mr. Gary Leach
Phone: (510)450-7224

QC Batch ID: 544
Associated PACE Samples: 7037575

QC Batch Method: EPA 3520

Date of Batch: 01/20/95

METHOD BLANK: 7039886

Associated PACE Samples:
7037575

Parameter	Units	Method Blank Result	PRL	Footnotes
Phenol	ug/L	ND	10	
bis(2-Chloroethyl) ether	ug/L	ND	10	
2-Chlorophenol	ug/L	ND	10	
1,3-Dichlorobenzene	ug/L	ND	10	
1,4-Dichlorobenzene	ug/L	ND	10	
Benzyl Alcohol	ug/L	ND	20	
1,2-Dichlorobenzene	ug/L	ND	10	
2-Methylphenol	ug/L	ND	10	
bis(2-Chloroisopropyl) ether	ug/L	ND	10	
3-Methylphenol	ug/L	ND	10	
N-Nitroso-di-n-propylamine	ug/L	ND	10	
Hexachloroethane	ug/L	ND	10	
Nitrobenzene	ug/L	ND	10	
Sophorone	ug/L	ND	10	
2-Nitrophenol	ug/L	ND	10	
1,4-Dimethylphenol	ug/L	ND	10	
Benzoic Acid	ug/L	ND	50	
bis(2-Chloroethoxy) methane	ug/L	ND	10	
2,4-Dichlorophenol	ug/L	ND	10	
1,2,4-Trichlorobenzene	ug/L	ND	10	
Naphthalene	ug/L	ND	10	
4-Chloroaniline	ug/L	ND	20	
Hexachlorobutadiene	ug/L	ND	10	
1-Chloro-3-methylphenol	ug/L	ND	20	
2-Methylnaphthalene	ug/L	ND	10	
Hexachlorocyclopentadiene	ug/L	ND	10	



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 02/22/95

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PACE Project Number: 70628

Client Project ID: WATER SAMPLES

METHOD BLANK: 7039886

Associated PACE Samples:

7037575

Parameter	Units	Method Blank Result	PRL	Footnotes
2,4,6-Trichlorophenol	ug/L	ND	10	
2,4,5-Trichlorophenol	ug/L	ND	50	
2-Chloronaphthalene	ug/L	ND	10	
2-Nitroaniline	ug/L	ND	50	
Dimethylphthalate	ug/L	ND	10	
Acenaphthylene	ug/L	ND	10	
2,6-Dinitrotoluene	ug/L	ND	10	
3-Nitroaniline	ug/L	ND	50	
Acenaphthene	ug/L	ND	10	
2,4-Dinitrophenol	ug/L	ND	50	
4-Nitrophenol	ug/L	ND	50	
Dibenzofuran	ug/L	ND	10	
2,4-Dinitrotoluene	ug/L	ND	10	
Diethylphthalate	ug/L	ND	10	
4-Chlorophenyl-phenylether	ug/L	ND	10	
Fluorene	ug/L	ND	10	
4-Nitroaniline	ug/L	ND	50	
4,6-Dinitro-2-methylphenol	ug/L	ND	50	
N-Nitrosodiphenylamine	ug/L	ND	10	
4-Bromophenyl-phenylether	ug/L	ND	10	
Hexachlorobenzene	ug/L	ND	10	
Pentachlorophenol	ug/L	ND	50	
Phenanthrene	ug/L	ND	10	
Anthracene	ug/L	ND	10	
Di-n-butylphthalate	ug/L	ND	10	
Fluoranthene	ug/L	ND	10	
Pyrene	ug/L	ND	10	
Butyl benzyl phthalate	ug/L	ND	10	
3,3'-Dichlorobenzidine	ug/L	ND	20	
Benzo(a)anthracene	ug/L	ND	10	
Chrysene	ug/L	ND	10	
bis(2-Ethylhexyl)phthalate	ug/L	ND	10	
Di-n-octylphthalate	ug/L	ND	10	
Benzo(b)fluoranthene	ug/L	ND	10	
Benzo(k)fluoranthene	ug/L	ND	10	
Benzo(a)pyrene	ug/L	ND	10	
Indeno (1,2,3-cd) pyrene	ug/L	ND	10	
Dibenz(a,h)anthracene	ug/L	ND	10	



REPORT OF LABORATORY ANALYSIS

QUALITY CONTROL DATA

DATE: 02/22/95

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PACE Project Number: 70628

Client Project ID: WATER SAMPLES

METHOD BLANK: 7039886

Associated PACE Samples:

7037575

Parameter	Units	Method Blank Result	PRL	Footnotes
Benzo(g,h,i)perylene	ug/L	ND	10	
Nitrobenzene-d5 (S)	%	63		
2-Fluorobiphenyl (S)	%	60		
Terphenyl-D14 (S)	%	83		
Phenol-d5 (S)	%	63		
2-Fluorophenol (S)	%	60		
2,4,6-Tribromophenol (S)	%	75		

LABORATORY CONTROL SAMPLE & LCSD: 7023351 7023369

Parameter	Units	7023351		7023369		Spike		Footnotes
		Spike Conc.	LCS Result	Spike % Rec	LCSD Result	Dup % Rec	RPD	
Phenol	ug/L	100	86	86	83	83	4	
2-Chlorophenol	ug/L	100	98	98	91	91	7	
1,4-Dichlorobenzene	ug/L	100	60	60	55	55	9	
N-Nitroso-di-n-propylamine	ug/L	100	63	63	60	60	5	
1,2,4-Trichlorobenzene	ug/L	100	61	61	54	54	12	
1-Chloro-3-methylphenol	ug/L	100	110	113	100	103	9	
Acenaphthene	ug/L	100	76	76	68	68	11	
4-Nitrophenol	ug/L	100	120	122	130	132	8	
2,4-Dinitrotoluene	ug/L	100	81	81	79	79	2	
Pentachlorophenol	ug/L	100	110	108	120	115	6	
Pyrene	ug/L	100	59	59	57	57	3	
Nitrobenzene-d5 (S)				63		57		
2-Fluorobiphenyl (S)				61		57		
Terphenyl-D14 (S)				72		70		
Phenol-d5 (S)				73		62		
2-Fluorophenol (S)				67		63		
2,4,6-Tribromophenol (S)				83		77		



REPORT OF LABORATORY ANALYSIS

DATE: 02/22/95

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PACE Project Number: 70628

Client Project ID: WATER SAMPLES

QUALITY CONTROL DATA PARAMETER FOOTNOTES

The Quality Control Sample Final Results listed above have been rounded to reflect an appropriate number of significant figures. Consistent with EPA guidelines unrounded concentrations have been used to calculate % Rec and RPD values.

ND Not Detected
NC Not Calculable
PRL PACE Reporting Limit
RPD Relative Percent Difference
(S) Surrogate

TENTATIVE IDENTIFICATION & SEMI-QUANTITATION OF EXTRA PEAKS

EPA Method 8270: Semi-Volatile Organics

PACE Project No.: 70628 Oakland National Engraving

Client Sample ID: 1A

PACE Sample No.: 70-37575

#	RT	Tentative Identification	CAS #	% Match	Semi-Quant. (µg/L)
1	5.44	1,3,5-Trimethyl Hexane	1795273	N/A	160.
2	6.80	Unknown Hydrocarbon	-	-	320.
3	7.07	Unknown	-	-	240.
4	7.30	2,6,7-Trimethyl Decane	62108252	78	1160.
5	7.69	Unknown Hydrocarbon	-	-	240.
6	7.92	Unknown	-	-	520.
7	8.19	2,6-Octadiene	4974270	52	720.
8	8.42	Unknown	-	-	560.
9	8.61	Unknown	-	-	240.
10	9.24	Unknown	-	-	200.
11	9.38	Unknown Hydrocarbon	-	-	200.
12	9.66	Unknown	-	-	320.
13	9.95	Unknown	-	-	160.
14	11.00	Unknown Hydrocarbon	-	-	440.
15	11.15	Unknown Phthalate	-	-	200.
16	11.81	Unknown	-	-	200.
17	12.39	2,3-Dihydro-1,2-Dimethyl-Indene	17057828	73	200.
18	12.52	4,6-Dimethyl Lindecane	17312822	83	240.
19	13.51	2,3,7-Trimethyl Octane	62016346	83	240.
20					



ENVIRONMENTAL LABORATORIES

11 Digital Drive
 Novato, CA 94949
 Phone: (415) 883-6100
 Fax: (415) 883-2673

INVOICE

Number:	70000535
Date:	02/23/95

Sold To:

Mr. Gary Leach
 Oakland National Engraving
 1001 42nd. St.
 Oakland, CA 94608

Please Remit To:

PACE Incorporated
 Department 879
 Denver, CO 80291-0879

Client No	Purchase Order No	Project Manager	Terms	Page No	
OKLND NATL		Ron Chew	Net 30 Days	1	
Client Reference: PACE Project No:	WATER SAMPLES 70628				
Quantity U/M	Description	Method	Matrix	Price	Total
ANALYTICAL Charges: 1.00 ea	Semivolatile Organics	EPA 8270	Water	337.50	\$ 337.50
		ANALYTICAL SUBTOTAL:			\$ 337.50
TIME & EXPENSE Charges: 1.00	EPA 8270 TICs			150.00	\$ 150.00
		TIME & EXPENSE SUBTOTAL:			\$ 150.00
		TOTAL INVOICE AMOUNT:			\$ 487.50

1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS.
 PLEASE SEND REMITTANCE PAGE OR REFER TO INVOICE NUMBER 70000535 WHEN REMITTING.

ORIGINAL

AN EQUAL OPPORTUNITY EMPLOYER



ENVIRONMENTAL LABORATORIES

11 Digital Drive
Novato, CA 94949
Phone: (415) 883-6100
Fax: (415) 883-2673

INVOICE

Number: 70000535

Date: 02/23/95

Sold To:

Mr. Gary Leach
Oakland National Engraving
1001 42nd. St.
Oakland, CA 94608

Please Remit To:

PACE Incorporated
Department 879
Denver, CO 80291-0879

Client No	Purchase Order No	Project Manager	Terms	Page No
OKLND NATL		Ron Chew	Net 30 Days	2
PLEASE REMIT THIS PAGE WITH PAYMENT				
TOTAL INVOICE AMOUNT:				\$ 487.50
<p style="text-align: center;">1.5% MONTHLY FINANCE CHARGE ASSESSED AFTER 30 DAYS. REMITTANCE PAGE</p>				

ORIGINAL

AN EQUAL OPPORTUNITY EMPLOYER



BLOCK ENVIRONMENTAL SERVICES, INC.

1221 Thames Drive
Concord, CA 94518
Tel. (510) 682-7200
Fax (510) 682-8360

CHAIN OF SAMPLE CUSTODY RECORD

(original document, please return)

Page 1 of 1

Sampled By: Ron Block

Date Sampled: 2/10/95

Signature: Ron Block

BES Job #: _____

Lab Name: DACE

Results To Be Sent To: _____

Contact: Ron Block

Results Needed By: _____

Phone #: (510) 682-7200

Fax Results ASAP

Lab Job #: _____

Sample Collection				Sample Preservation			Sample Containers			Analysis/EPA Method No.				
Sample I.D.	Time (24 hr)	Matrix (e.g. Water, Soil)	Number of Containers	Ice	Ice	Ice							Lab No. Remarks	
1A	1100	water		X				2						37575

Notes:
 Holding time and preservation without ice is ok.
 Please analyze TICs using EPA method 8270
 call if you have questions
 Ron Block

* Please call to confirm test and prices (prices subject to change)

Relinquished by/ Company Affiliation	Date	Time	Received by: Company Affiliation	Date	Time
Ron Block	2/10/95	1115	Edith - IAC	2/10/95	1715
Edith - IAC	2/10/95	1820	J. Sykes	2/10/95	1820



BLOCK ENVIRONMENTAL SERVICES, INC.
1221 Thames Drive
Concord, CA 94518
Tel. (510) 682-7200
Fax (510) 682-8360

CHAIN OF SAMPLE CUSTODY RECORD
(original document, please return)

Sampled By: Kan Block

Date Sampled: 2/10/95

Signature: [Handwritten Signature]

BES Job #: _____

Lab Name: DACY

Results To Be Sent To: _____

Contact: Kan Block

Results Needed By: _____

Phone #: (510) 682-7200

Fax Results ASAP

Lab Job #: _____

Sample Collection				Sample Preservation			Sample Containers			Analysis/EPA Method No.			
Sample I.D.	Time (24 hr)	Matrix (e.g. Water, Soil)	Number of Containers	Ice	No ice								Lab No. Remarks
1A	1100	water		X				2					37575
1B								2					

Notes:
Holding time and preservation without ice is ok.
Please analyze TICs using EPA method 8270
call if you have questions
[Handwritten Signature]

* Please call to confirm test and prices (prices subject to change)

Relinquished by/ Company Affiliation	Date	Time	Received by: Company Affiliation	Date	Time
<u>[Handwritten Signature]</u>	<u>2/10/95</u>	<u>1115</u>	<u>[Handwritten Signature]</u>	<u>2/10/95</u>	<u>1715</u>
<u>[Handwritten Signature]</u>	<u>2/10/95</u>	<u>1820</u>	<u>[Handwritten Signature]</u>	<u>2/10/95</u>	<u>1820</u>

ATTACHMENT 5

P.O. BOX 996, BENICIA, CA 94510, (707) 747-6699

NON-HAZARDOUS SPECIAL WASTE MANIFEST

GENERATOR

Generator Name Dave Color Communications Generating Location _____

Address 1001 42nd St. Address 411st of ...

Oakland, Ca. 94608

Phone No. 510-450-7024

Phone No. _____

Description of Waste	Quantity	Units	Containers		Type
			No.	Type	
<u>Water with hydrocarbons</u>	<u>175</u>	<u>G</u>	<u>01</u>	<input checked="" type="checkbox"/>	<u>D - Drum</u>
					<u>C - Carton</u>
					<u>B - Bag</u>
					<u>T - Truck</u>
					<u>P - Pounds</u>
					<u>Y - Yards</u>
					<u>O - Other</u>

I hereby certify that the above named material does not contain free liquid as defined by 40 CFR Part 260.10 or any applicable state law, is not a hazardous waste as defined by 40 CFR Part 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations.

Generator Authorized Agent Name Gary Leach Signature [Signature] Shipment Date 061595

TRANSPORTER

Truck No. _____ Phone No. 707-714-6999

Transporter Name Universal Environmental Driver Name (Print) Chen Williams

Address 1895 Park Rd. Vehicle License No./State 9A 37493

Benicia, Ca. 94714

Vehicle Certification: 06/01/95

I hereby certify that the above named material was picked up at the generator site listed above. I hereby certify that the above named material was packaged without incident to the destination listed below.

Driver Signature [Signature] Shipment Date 061595 Driver Signature [Signature] Delivery Date _____

DESTINATION

Site Name PRC Phone No. 800-874-4444

Address 13331 N. Hwy 33 Patterson, CA 95363

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

Name of Authorized Agent _____ Signature _____ Receipt Date _____



P.O. Box 996 Benicia, CA 94510 (707) 422-6699

HAZARDOUS WASTE HAULING

INDUSTRIAL CLEANING

REMEDATION

(707) 422-6699

PUC CAL-T # _____

DATE 6-15-95

I.C.C. # _____

P.O. # _____

HAZARDOUS WASTE MANIFEST # _____

JOB # 1484

TAG # _____

CUSTOMER ONE COLOR COMMUNICATIONS

BILLING ADDRESS _____

CITY OAKLAND

STATE CA ZIP _____

SERVICES PERFORMED LOAD + HAUL FOR DISPOSAL

PRODUCT WATER + HYDROCARB ORIGIN OAKLAND, CA

DESTINATION PATTERSON, CA

ARRIVE JOB SITE 8/5

ARRIVE DISPOSAL SITE _____

DEPART JOB SITE 0935

DEPART DISPOSAL SITE _____

TRUCK # 1105

TRAILER/BIN # _____

START _____

STOP _____

TIME _____

HOURS _____

CAPACITY 60

TIME OUT/MEALS FROM _____

TO _____

LESS _____

HOURS _____

LOADS 1

DM/YD/LBS/GALS 175

WASHOUT _____

TYPE LINER —

DISPOSAL SITE PRC

SUBSTANCE —

TOLL COST 7

DRIVER NAME Glen Williams

LABORER _____

Glen Williams
DRIVER SIGNATURE

Frank Jones
CUSTOMER AUTHORIZATION

NOTE: In the event of an action or proceeding upon this agreement, the Court shall award to the prevailing party court costs and reasonable attorney fees.

ATTACHMENT 6

ALAMEDA COUNTY HEALTH CARE SERVICES AGENCY
 DEPARTMENT OF ENVIRONMENTAL HEALTH
 ENVIRONMENTAL PROTECTION DIVISION
 1131 HARBOR BAY PARKWAY, RM 250

ALAMEDA, CA 94502-6577
 PHONE # 510/567-6700
 FAX # 510/337-9335

SUSAN L. HUGO

Project Specialist

ACCEPTED

Underground Storage Tank Closure Permit Application

Alameda County Division of Hazardous Materials
 80 Swan Way, Suite 200,
 Oakland, CA 94621
 Telephone: (510) 271-4320

These closure/removal plans have been received and found to be acceptable and essentially meet the requirements of State and Local Health Laws. Changes to your closure plans indicate by this Department are to assure compliance with State and local laws. The project proposed herein is now referred for issue of any required building permits for construction/demolition. One copy of the accepted plans must be on the job and available to all contractors and craftsmen involved with the removal. Any changes or alterations of these plans and specifications must be submitted to this Department and to the fire and Building Inspections Department to determine if such changes meet requirements of State and local laws.

Notify this Department at least 72 hours prior to the following required inspections: *

- _____ Removal of Tank(s) and Piping
- _____ Sampling
- _____ Final Inspection

Issuance of a) permit to operate, b) permanent site closure is dependant on compliance with accepted plans and all applicable laws and regulations.

*THERE IS A FINANCIAL PENALTY FOR NOT OBTAINING THESE INSPECTIONS

Contact Specialist:

Susan L. Hugo 6/20/95

CLOSURE IN PLACE

UNDERGROUND TANK CLOSURE PLAN

* * * Complete according to attached instructions * * *

1. Name of Business O.N.E. Color Communications
 Business Owner or Contact Person (PRINT) Gary Leach
2. Site Address 1001 42nd Street
 city Oakland zip 94608 Phone (510) 652-9005
3. Mailing Address P.O. Box 8277
 city Emeryville zip 94662 Phone (510) 652-9005
4. Property Owner Edward & Elizabeth Kozel
 Business Name (if applicable) _____
 Address P.O. Box 8277
 city, state Emeryville: CA zip 94662
5. Generator name under which tank will be manifested
O.N.E. Color Communications / Oakland National Engraving
 EPA ID# under which tank will be manifested CA 009185307
~~009185~~

Lo will be closed in place.

6. Contractor NOT REQUIRED - will be used to close tank in place
Address _____
City _____ Phone _____
License Type* _____ ID# _____

*Effective January 1, 1992, Business and Professional Code Section 7058.7 requires prime contractors to also hold Hazardous Waste Certification issued by the State Contractors License Board.

7. Consultant (if applicable) Block Environmental Services
Address 2455 ESTAND WAY
City, State Pleasant Hill, CA 94523 Phone (510) 682-7200

8. Main Contact Person for Investigation (if applicable)
Name Ronald Block Title Project Manager
Company Block Environmental Services
Phone (510) 682-7200

9. Number of underground tanks being closed with this plan 1
Length of piping being removed under this plan NONE - NO PIPING FOUND
Total number of underground tanks at this facility (**confirmed with owner or operator) 1

10. State Registered Hazardous Waste Transporters/Facilities (see instructions).

** Underground storage tanks must be handled as hazardous waste **
TANK did not contain hazardous constituents defined under the CCR, Title 22

a) Product/Residual Sludge/Rinsate Transporter
Not wastewater disposed of as non-hazardous waste on June 15, 1995
Name Enviropur West - PRC Facility EPA I.D. No. _____
Hauler License No. 601013 License Exp. Date _____
Address 13331 N. Highway 33,
City Patterson State CA Zip 95363

b) Product/Residual Sludge/Rinsate Disposal Site
Name Rinsate will be disposed of to EAST BAY MUD under current discharge permit -
EPA ID# Permit # 053-90131
Address P.O. Box 24055
City Oakland State CA Zip 94623

c) Tank and Piping Transporter

Name TANK HAS NO connecting piping EPA I.D. No. _____
Hauler License No. _____ License Exp. Date _____
Address _____
City _____ State _____ Zip _____

d) Tank and Piping Disposal Site

Name TANK HAS NO connecting piping EPA I.D. No. _____
Address _____
City _____ State _____ Zip _____

11. Sample Collector

Name Paul Lessard REA
Company Block Environmental Services
Address 2455 ESTABD WAY
City Pleasant Hill state CA zip 94523 Phone 682-7200

12. Laboratory

Name Pace
Address 1455 McDowell Blvd, North, Suite D
City Petaluma state CA zip 94954
State Certification No. will provide with analysis

13. Have tanks or pipes leaked in the past? Yes [] No [] Unknown [X]

If yes, describe. _____

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

tank will be grouted with lean concrete mix, $f_c' = 1000$ psi at 28 days and $3/8$ " maximum aggregate.

Tank is inert currently - Flash pt $> 60^\circ\text{C}$

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

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

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

Tank		Material to be sampled (tank contents, soil, groundwater)	Location and Depth of Samples
Capacity	Use History include date last used (estimated)		
1000 gal	prior to 1980	Tank is currently empty - county has been provided with complete set set of chemical analysis prior to pumping of contents, Soil will be sampled for 8240/8270, metals and TPH Analytes	Soil Soil sample will be collected at a depth of about 5.5 ft below surface, about 2 feet down gradient of tank

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

Excavated/Stockpiled Soil

Stockpiled Soil Volume (estimated)

Limited to Auger cuttings -
4 inch diameter x 5 ft

Sampling Plan

6" brass tube will be used to collect soil samples using hand-driven soil sampler.

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

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

If yes, explain reasoning soil from augering will be returned to hole

if NO organic odor is present - if organics present, soil will be disposed of after chemical analysis
If unknown at this point in time, please be aware that excavated soil may not be returned to the excavation without prior approval from Alameda County. This means that the contractor, consultant, or responsible party must communicate with the Specialist IN ADVANCE of backfilling operations.

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

The Tri-Regional Board recommended minimum verification analyses and practical quantitation reporting limits should be followed. See attached Table 2.

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

Contaminant Sought	EPA or Other Sample Preparation Method Number	EPA or Other Analysis Method Number	Method Detection Limit
Volatiles organics Chlorinated BTEX	Acid Extraction EPA method 8240	8240	10 ug/kg
Semi volatile Compounds	BASE/Neutral extraction	EPA method 8270	10 ug/kg
ICP metals		6010/200.7 ICP Scan Se EPA method 7740 Hg EPA method 7470 As " " 7060	1 ug/kg 1 ug/kg 1 ug/kg 1 ug/kg
TPH-G TPH-D		EPA 5030 EPA 3550	1 ppm 1 ppm

18. Submit Worker's Compensation Certificate copy

Name of Insurer _____

19. Submit Plot Plan ***** (See Instructions) *****

20. Enclose Deposit (See Instructions)

21. Report any leaks or contamination to this office within 5 days of discovery. The written report shall be made on an Underground Storage Tank Unauthorized Leak/Contamination Site Report (ULR) form.

22. Submit a closure report to this office within 60 days of the tank removal. The report must contain all information listed in item 22 of the instructions.

23. Submit State (Underground Storage Tank Permit Application) Forms A and B (one B form for each UST to be removed) (mark box 8 for "tank removed" in the upper right hand corner)

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

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

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

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

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

CONTRACTOR INFORMATION

Name of Business Black Environmental Services

Name of Individual Ronald Black

Signature Ronald Black Date 6/15/95

PROPERTY OWNER OR MOST RECENT TANK OPERATOR (circle one)

Name of Business ONE Color Communications

Name of Individual Gary Leach

Signature Gary Leach Date 6/16/95

ALAMEDA COUNTY ENVIRONMENTAL PROTECTION DIVISION

DECLARATION OF SITE ACCOUNT REFUND RECIPIENT

There may be excess funds remaining in the Site Account at the completion of this project. The PAYOR (person or company that issues the check) will use this form to predestinate, another party to receive any funds refunded at the completion of this project. In the absence of this form, the PAYOR will receive the refund.

SITE INFORMATION:

Site ID Number
(if known)

ONE Color Communications
Name of site

1001 42nd Street
Street Address

Oakland, CA 94608
City, State & Zip Code

I designate the following person or business to receive any refund due at the completion of all deposit/refund projects:

ONE Color Communications
Name

1001 42nd Street
Street Address

Oakland, CA 94608
City, State & Zip Code

Gary Leach
Signature of Payor

6/15/95
Date

GARY Leach
Name of Payor
(PLEASE PRINT CLEARLY)

ONE Color Communications
Company Name of Payor

RETURN FORM TO:
County of Alameda, Environmental Protection
1131 Harbor Bay Parkway, Rm 250
Alameda CA 94502-6577
Phone#(510) 567-6700



Site Location
 Former Rickridge Antiques
 Oakland, California

BES

Block Environmental Services

Oakland National Engraving

PLATE

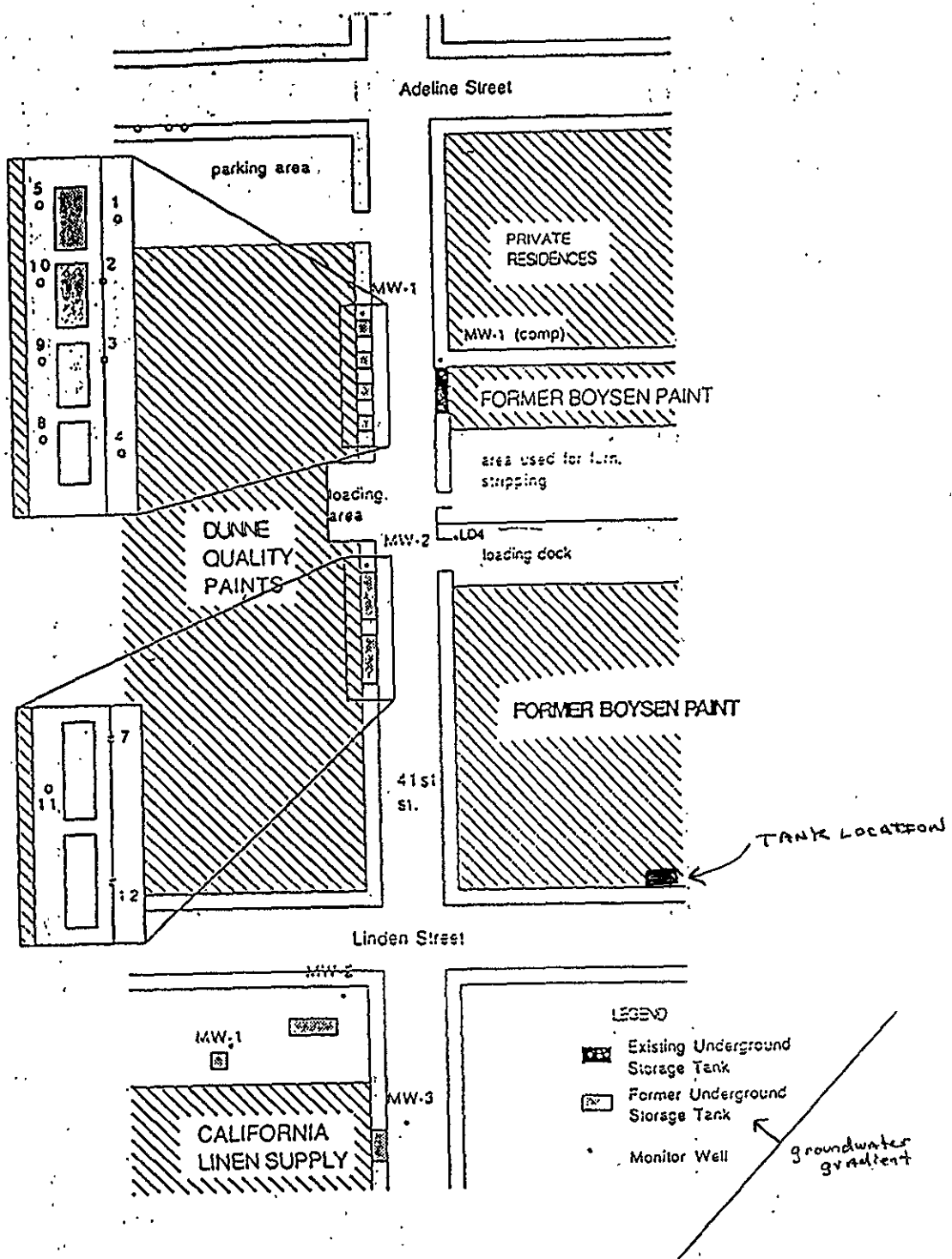
JOB NUMBER

DATE

1

306

12/1/93



Site Layout
 Oakland National Engraving
 Oakland, California

Oakland National Engraving
 JOB NUMBER: 306
 DATE: 12/1/93

PLATE
 2

BES Block Environmental Services

BLOCK ENVIRONMENTAL SERVICES SITE SAFETY PLAN

General information

Site Name: Oakland National Engraving

Site Location: 1001 42nd Street, Oakland, California

Prepared by: Ronald M. Block, Ph.D.

Date: June 15, 1995

Proposed date of Investigation: June 21, 1995

Objectives: Collect soil and grab groundwater sample

Background review: Complete

Overall Hazard: low

Site/Waste Characteristics:

Contaminate type: solid

Characteristic: no hazardous waste characteristics

Level of Protection D

Facility Description: There is currently a photoengraving facility and offices on site

Principal Disposal Method: Drilling soils will be offhauled to an approved landfill for disposal if necessary

Site Health and Safety Coordinator Responsibilities

A Site Health and Safety Coordinator will be designated.

The responsibilities of the Site Health and Safety Coordinator will include the following:

- o briefing personnel on the hazards at the site, the standard operating procedures to be employed, and emergency procedures
- o conducting onsite health monitoring
- o coordinating access control and site security
- o monitoring work practices and decontamination to ensure that required procedures are being followed
- o availability to document and respond to any concerns or complaints made by personnel on site
- o documenting unsafe work practices or conditions
- o documenting any accidents or incidents that result in illness or injury to personnel
- o evaluating and amending the Health and Safety Plan daily to remedy deficiencies and post entry briefings

Contingency Plan and Emergency Procedures

If HNu readings indicate a sudden increase of chemicals in the breathing zone exceeding IDHL levels or if other threatening hazards are noted, BES and its contractors will evacuate the area. No personnel will return unless chemical levels, toxicological judgement, or an emergency response official indicates that it is safe and proper to do so.

To obtain medical assistance as soon as possible in case of emergency, the following telephone numbers, addresses and directions for the nearest medical treatment facilities will be available at the site:

Ambulance: 911

Police: Emeryville Police Department
2449 Powell
911 or (510) 596-3737

Fire: Emeryville Fire Department
4331 San Pablo Avenue
911 or (510) 652-222

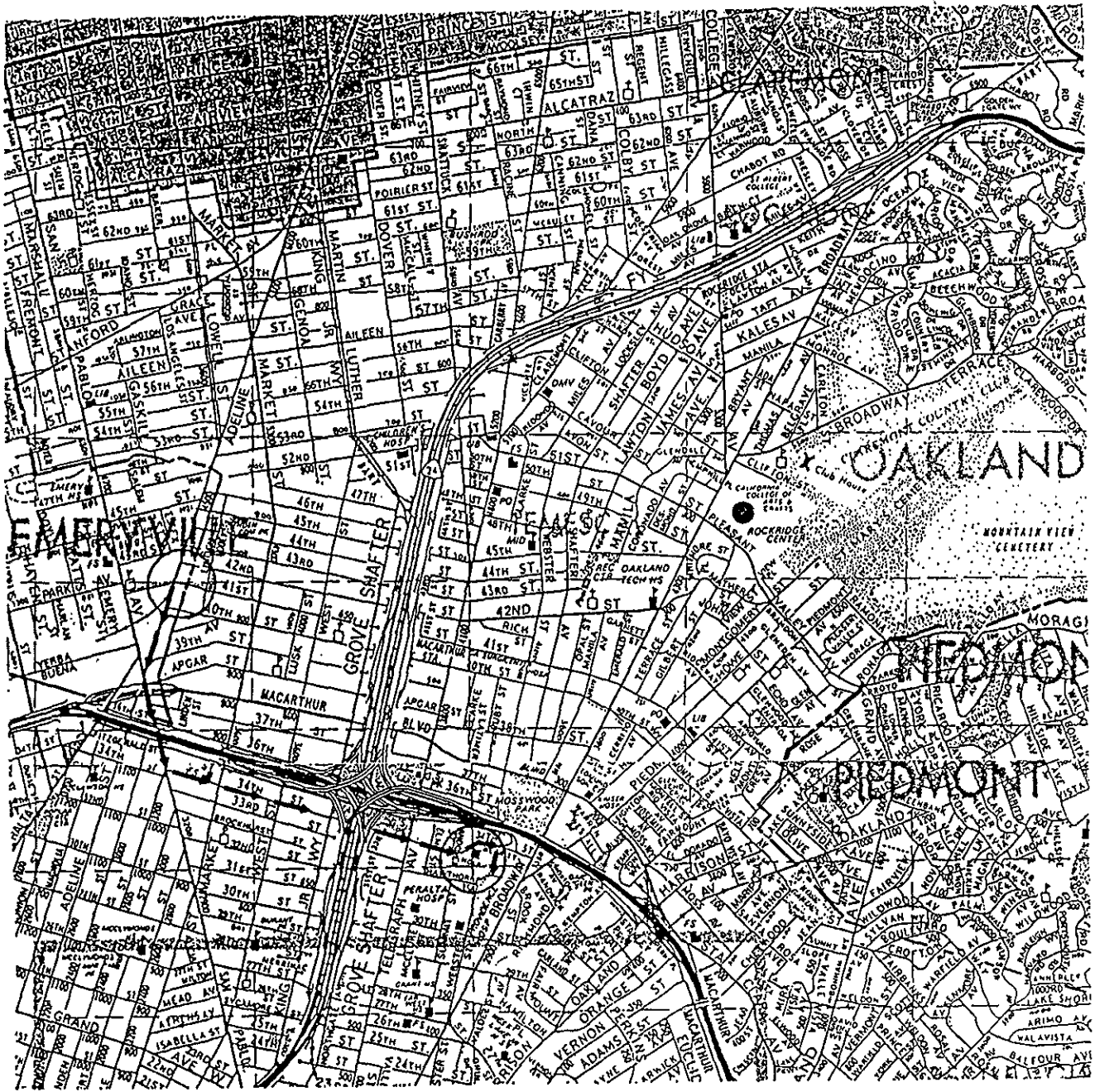
Poison Control Center: 911

Hospital: Merritt Hospital
Hawthorn Avenue and Webster
(510) 655-4000

Directions to Hospital: Go west on 41st Street, turn left (south) onto Adeline Street. Turn left onto San Pablo Avenue. Turn left onto 34th Street then right onto Webster. Merritt Hospital is located at the corner of Hawthorn and Webster.

A map showing the route to the hospital is included in the attached Plate.

In an emergency, the primary concern is to prevent loss of life or severe injury to site personnel. If immediate medical treatment is required, decontamination will be delayed until the condition of the first victim has stabilized. If decontamination can be performed without interfering with first aid, or if a worker has been contaminated with an extremely toxic or corrosive material that could cause severe injury, decontamination will be performed immediately. If an emergency caused by a heat-related illness develops, protective clothing will be removed from the victim as soon as possible to reduce heat stress.



1" = 2,200'

Hospital Route Map
Merritt Hospital
Oakland, California

Oakland National Engraving

PLATE

JOB NUMBER

DATE

4

306

12/1/93

BES Block Environmental Services

INSTRUCTIONS

General Instructions

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

Line Item Specific Instructions

2. SITE ADDRESS
Address at which closure is taking place.
5. EPA I.D. NO. under which the tanks will be manifested
EPA I.D. numbers may be obtained from the State Department of Toxic Substances Control, 916/324-1781.
6. CONTRACTOR
Prime contractor for the project.
10. STATE REGISTERED HAZARDOUS WASTE TRANSPORTERS/FACILITIES
 - a) All residual liquids and sludges are to be removed from tanks before tanks are inerted.
 - c) Tanks must be hauled as hazardous waste.
 - d) This is the place where tanks will be taken for cleaning.
15. TANK HISTORY AND SAMPLING INFORMATION
Use History - This information is essential and must be accurate. Include tank installation date, products stored in the tank, and the date when the tank was last used.

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

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

16. CHEMICAL METHODS AND ASSOCIATED DETECTION LIMITS

See attached Table 2.

17. SITE HEALTH AND SAFETY PLAN

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

- a) The name and responsibilities of the site health and safety officer;
- b) An outline of briefings to be held before work each day to appraise employees of site health and safety hazards;
- c) Identification of health and safety hazards of each work task. Include potential fire, explosion, physical, and chemical hazards;
- d) For each hazard, identify the action levels (contaminant concentrations in air) or physical conditions which will trigger changes in work habits to ensure workers are not exposed to unsafe chemical levels or physical conditions;
- e) Description of the work habit changes triggered by the above action levels or physical conditions;
- f) Frequency and types of air and personnel monitoring - along with the environmental sampling techniques and instrumentation - to be used to detect the above action levels. Include instrumentation maintenance and calibration methods and frequencies;
- g) Confined space entry procedures (if applicable);
- h) Decontamination procedures;
- i) Measures to be taken to secure the site, excavation and stockpiled soil during and after work hours (e.g. barricades, caution tape, fencing, trench plates, plastic sheeting, security guards, etc.);
- j) Spill containment/emergency/contingency plan. Be sure to include emergency phone numbers, the location of the phone nearest the site, and directions to the hospital nearest the site;
- k) Documentation that all site workers have received the appropriate OSHA approved trainings and participate in appropriate medical surveillance per 29 CFR 1910.120; and
- l) A page for employees to sign acknowledging that they have read and will comply with the site health and safety plan.

The safety plan must be distributed to all employees and contractors working in hazardous waste operations on site. A complete copy of the site health and safety plan along with any standard operating procedures shall be on site and accessible at all times.

NOTE: These requirements are excerpts from 29 CFR Part 1910.120(b)(4), Hazardous Waste Operations and Emergency Response; Final Rule, March 6, 1989. Safety plans of certain underground tank sites may need to meet the complete requirements of this Rule.

19. PLOT PLAN

The plan should consist of a scaled view of the facility at which the tank(s) are located and should include the following information:

- a) Scale;
- b) North Arrow;
- c) Property Lines;
- d) Location of all Structures;
- e) Location of all relevant existing equipment including tanks and piping to be removed and dispensers;
- f) Streets;
- g) Underground conduits, sewers, water lines, utilities;
- h) Existing wells (drinking, monitoring, etc.);
- i) Depth to ground water; and
- j) All existing tank(s) and piping in addition to the tank(s) being removed.

20. DEPOSIT

A deposit, payable to "County of Alameda" for the amount indicated on the Alameda County Underground Storage Tank Fee Schedule, must accompany the plans.

21. Blank Unauthorized Leak/Contamination Site Report forms may be obtained in limited quantities from this office or from the San Francisco Bay Regional Water Quality Control Board (510/286-1255). Larger quantities may be obtained directly from the State Water Resources Control Board at (916) 739-2421.

22. TANK CLOSURE REPORT

The tank closure report should contain the following information:

- a) General description of the closure activities;
- b) Description of tank, fittings and piping conditions. Indicate tank size and former contents; note any corrosion, pitting, holes, etc.;

- c) Description of the excavation itself. Include the tank and excavation depth, a log of the stratigraphic units encountered within the excavation, a description of root holes or other potential contaminant pathways, the depth to any observed ground water, descriptions and locations of stained or odor-bearing soil, and descriptions of any observed free product or sheen;
- d) Detailed description of sampling methods; i.e. backhoe bucket, drive sampler, bailer, bottle(s), sleeves
- e) Description of any remedial measures conducted at the time of tank removal;
- f) To-scale figures showing the excavation size and depth, nearby buildings, sample locations and depths, and tank and piping locations. Include a copy of the plot plan prepared for the Tank Closure Plan under item 19;
- g) Chain of custody records;
- h) Copies of signed laboratory reports;
- i) Copies of "TSDF to Generator" Manifests for all hazardous wastes hauled offsite (sludge, rinsate, tanks and piping, contaminated soil, etc.); and
- j) Documentation of the disposal of/and volume and final destination of all non-manifested contaminated soil disposed offsite.

TABLE #2
RECOMMENDED MINIMUM VERIFICATION ANALYSES FOR
UNDERGROUND TANK LEAKS

<u>HYDROCARBON LEAK</u>	<u>SOIL ANALYSIS</u>		<u>WATER ANALYSIS</u>	
Unknown Fuel	TPH G TPH D BTX&E TPH AND BTX&E 8260	GCFID(5030) GCFID(3550) 8020 or 8240	TPH G TPH D BTX&E	GCFID(5030) GCFID(3510) 602, 624 or 8260
Leaded Gas	TPH G BTX&E TPH AND BTX&E 8260 TOTAL LEAD AA -----Optional----- TEL EDB	GCFID(5030) 8020 OR 8240	TPH G BTX&E TOTAL LEAD AA TEL EDB	GCFID(5030) 602 or 624 DHS-LUFT DHS-AB1803
Unleaded Gas	TPH G BTX&E TPH AND BTX&E 8260	GCFID(5030) 8020 or 8240	TPH G BTX&E	GCFID(5030) 602, 624 or 8260
Diesel, Jet Fuel and Kerosene	TPH D BTX&E TPH AND BTX&E 8260	GCFID(3550) 8020 or 8240	TPH D BTX&E	GCFID(3510) 602, 624 or 8260
Fuel/Heating Oil	TPH D BTX&E TPH AND BTX&E 8260	GCFID(3550) 8020 or 8240	TPH D BTX&E	GCFID(3510) 602, 624 or 8260
Chlorinated Solvents	CL HC BTX&E CL HC AND BTX&E 8260	8010 or 8240 8020 or 8240	CL HC BTX&E CL HC AND BTX&E 8260	601 or 624 602 or 624
Non-chlorinated Solvents	TPH D BTX&E TPH AND BTX&E 8260	GCFID(3550) 8020 or 8240	TPH D BTX&E TPH and BTX&E 8260	GCFID(3510) 602 or 624
Waste and Used Oil or Unknown (All analyses must be completed and submitted)	TPH G TPH D TPH AND BTX&E 8260 O & G BTX&E CL HC	GCFID(5030) GCFID(3550) 5520 D & F 8020 or 8240 8010 or 8240	TPH G TPH D O & G BTX&E CL HC	GCFID(5030) GCFID(3510) 5520 B & F 602, 624 or 8260 601 or 624
	ICAP or AA TO DETECT METALS: Cd, Cr, Pb, Zn, Ni METHOD 8270 FOR SOIL OR WATER TO DETECT: PCB* PCP* PNA CREOSOTE			

* If found, analyze for dibenzofurans (PCBs) or dioxins (PCP)

Reference: Tri-Regional Board Staff Recommendations for Preliminary
Evaluation and Investigation of Underground Tank Sites,
10 August 1990

EXPLANATION FOR TABLE #2: MINIMUM VERIFICATION ANALYSIS

1. OTHER METHODOLOGIES are continually being developed and as methods are accepted by EPA or DHS, they also can be used.
2. For DRINKING WATER SOURCES, EPA recommends that the 500 series for volatile organics be used in preference to the 600 series because the detection limits are lower and the QA/QC is better.
3. APPROPRIATE STANDARDS for the materials stored in the tank are to be used for all analyses on Table #2. For instance, seasonally, there may be five different jet fuel mixtures to be considered.
4. To AVOID FALSE POSITIVE detection of benzene, benzene-free solvents are to be used.
5. TOTAL PETROLEUM HYDROCARBONS (TPH) as gasoline (G) and diesel (D) ranges (volatile and extractable, respectively) are to be analyzed and characterized by GCFID with a fused capillary column and prepared by EPA method 5030 (purge and trap) for volatile hydrocarbons, or extracted by sonication using 3550 methodology for extractable hydrocarbons. Fused capillary columns are preferred to packed columns; a packed column may be used as a "first cut" with "dirty" samples or once the hydrocarbons have been characterized and proper QA/QC is followed.
6. TETRAETHYL LEAD (TEL) analysis may be required if total lead is detected unless the determination is made that the total lead concentration is geogenic (naturally occurring).
7. CHLORINATED HYDROCARBONS (CL HC) AND BENZENE, TOLUENE, XYLENE AND ETHYLBENZENE (BTX&E) are analyzed in soil by EPA methods 8010 and 8020 respectively, (or 8240) and in water, 601 and 602, respectively (or 624).
8. OIL AND GREASE (O & G) may be used when heavy, straight chain hydrocarbons may be present. Infrared analysis by method 418.1 may also be acceptable for O & G if proper standards are used. "Standard Methods" 17th Edition, 1989, has changed the 503 series to 5520.
9. PRACTICAL QUANTITATION REPORTING LIMITS are influenced by matrix problems and laboratory QA/QC procedures. Following are the Practical Quantitation Reporting Limits:

	<u>SOIL PPM</u>	<u>WATER PPB</u>
TPH G	1.0	50.0
TPH D	1.0	50.0
BTX&E	0.005	0.5
O & G	50.0	5,000.0

Based upon a Regional Board survey of Department of Health Services Certified Laboratories, the Practical Quantitation Reporting Limits are attainable by a majority of laboratories with the exception of diesel fuel in soils. The Diesel Practical Quantitation Reporting Limits, shown by the survey, are:

ROUTINE	MODIFIED PROTOCOL
≤ 10 ppm (42%)	≤ 10 ppm (10%)
≤ 5 ppm (19%)	≤ 5 ppm (21%)
≤ 1 ppm (35%)	≤ 1 ppm (60%)

When the Practical Quantitation Reporting Limits are not achievable, an explanation of the problem is to be submitted on the laboratory data sheets.

- LABORATORY DATA SHEETS are to be signed and submitted and include the laboratory's assessment of the condition of the samples on receipt including temperature, suitable container type, air bubbles present/absent in VOA bottles, proper preservation, etc. The sheets are to include the dates sampled, submitted, prepared for analysis, and analyzed.
- IF PEAKS ARE FOUND, when running samples, that do not conform to the standard, laboratories are to report the peaks, including any unknown complex mixtures that elute at times varying from the standards. Recognizing that these mixtures may be contrary to the standard, they may not be readily identified; however, they are to be reported. At the discretion of the LIA or Regional Board the following information is to be contained in the laboratory report:

The relative retention time for the unknown peak(s) relative to the reference peak in the standard, copies of the chromatogram(s), the type of column used, initial temperature, temperature program is C/minute, and the final temperature.

- REPORTING LIMITS FOR TPH are: gasoline standard ≤ 20 carbon atoms, diesel and jet fuel (kerosene) standard ≤ 50 carbon atoms. It is not necessary to continue the chromatography beyond the limit, standard, or EPA/DHS method protocol (whichever time is greater).

EPILOGUE

ADDITIVES: Major oil companies are being encouraged or required by the federal government to reformulate gasoline as cleaner burning fuels to reduce air emissions. MTBE (Methyl-tertiary butyl ether), ETHANOL (ethyl alcohol), and other chemicals may be added to reformulate gasolines to increase the oxygen content in the fuel and thereby decrease undesirable emissions (about four percent with MTBE). MTBE and ethanol are, for practical purposes, soluble in water. The removal from the water column will be difficult. Other compounds are being added by the oil companies for various purposes. The refinements for detection and analysis for all of these additives are still being worked out. If you have any questions about the methodology, please call your Regional Board representative.

ATTACHMENT 7



CITY OF OAKLAND



421 FOURTEENTH STREET • OAKLAND, CALIFORNIA 94612

Fire Prevention Bureau

(510) 238-3851
TDD 839-6451

June 29, 1995

Mr. Gary Leach
O.N.E. Color Communications
P.O. Box 8277
Emeryville, CA 94662


RE: Underground Tank at 1001 42nd Street

Dear Gary:

Based on the information from the Alameda County Environmental Health Hazardous Materials Division, I am aware of the underground tank that is inside of your building located at 1001 42nd Street. The Oakland Fire Department is hereby granting approval for the closure in place of the tank. We understand that the tank cannot be removed from the ground without causing structural damage to the building.

We agree with your engineer's recommendation of filling the tank with a lean concrete grout mix as specified in his letter, dated December 14, 1994, as 1,000 p.s.i. at 28 days and 3/8" maximum aggregate.

If you or Susan Hugh have any questions, please call me at (510) 238-3851.

Sincerely,

Jerry Blueford
Fire Marshal

JB/af

42nd St. 1000

ATTACHMENT 8

CHROMALAB, INC.

Environmental Services (SDB)

June 28, 1995

Submission #: 9506326

Block Environmental Services
1221 Thames Drive
Concord, CA 94518

Attn: Ron Block

RE: Analysis for project 504.

REPORTING INFORMATION

Samples were received cold and in good condition on June 23, 1995. They were refrigerated upon receipt and analyzed as described in the attached report. ChromaLab followed EPA or equivalent methods for all testing reported.

Deviation from standard conditions was found in the following:

Over the weekend of June 24-25, one of ChromaLab's sample storage refrigerators failed. The temperature inside the cooler rose above the upper temperature control limit. The tests affected are listed below.

Please call us if you have questions regarding them.

SAMPLES SUBMITTED IN THIS REPORT

<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date collected</u>	<u>Sample #</u>
1-4.5	SOIL	June 21, 1995	93655

Tests affected by refrigerator failure are: EPA METHOD 8240.


Jill Thomas
Quality Assurance Manager


Eric Tam
Laboratory Director

CHROMALAB, INC.

Environmental Services (SDB)

June 27, 1995

Submission #: 9506326

Block Environmental Services

Atten: Ron Block

Project: 504

Received: June 23, 1995

re: 1 sample for Oil and Grease analysis.

Matrix: SOIL Extracted: June 26, 1995
Sampled: June 21, 1995 Run: 7332-C Analyzed: June 26, 1995
Method: STANDARD METHODS 5520 E&F

<u>Spl #</u>	<u>CLIENT</u>	<u>SMPL ID</u>	<u>OIL & GREASE</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>RESULT</u> <u>(%)</u>
93655	1-4.5		N.D.	50	N.D.	88



Carolyn House
Extractions Supervisor



Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 29, 1995

Submission #: 9506326

Block Environmental Services

Atten: Ron Block

Project: 504

Received: June 23, 1995

re: One sample for Volatile Organic Compounds analysis.

Sample ID: 1-4.5

Spl#: 93655

Matrix: SOIL

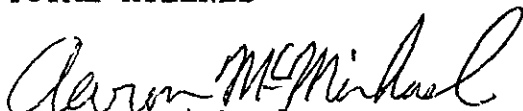
Sampled: June 21, 1995

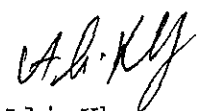
Run: 7418-A

Analyzed: June 29, 1995

Method: EPA 8240/8260

ANALYTE	RESULT (ug/Kg)	REPORTING LIMIT (ug/Kg)	BLANK RESULT (ug/Kg)	BLANK SPIKE RESULT (%)
ACETONE	N.D.	10	N.D.	--
BENZENE	7.4	5.0	N.D.	110
BROMODICHLOROMETHANE	N.D.	5.0	N.D.	--
BROMOFORM	N.D.	5.0	N.D.	--
BROMOMETHANE	N.D.	5.0	N.D.	--
2-BUTANONE	N.D.	5.0	N.D.	--
CARBON TETRACHLORIDE	N.D.	5.0	N.D.	--
CHLORO BENZENE	N.D.	5.0	N.D.	102
CHLOROETHANE	N.D.	5.0	N.D.	--
2-CHLOROETHYL VINYLETHER	N.D.	5.0	N.D.	--
CHLOROFORM	N.D.	5.0	N.D.	--
CHLOROMETHANE	N.D.	5.0	N.D.	--
DIBROMOCHLOROMETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,2-DICHLOROETHANE	N.D.	5.0	N.D.	--
1,1-DICHLOROETHENE	N.D.	5.0	N.D.	115
1,2-DICHLOROETHENE (CIS)	N.D.	5.0	N.D.	--
1,2-DICHLOROETHENE (TRANS)	N.D.	5.0	N.D.	--
1,2-DICHLOROPROPANE	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (CIS)	N.D.	5.0	N.D.	--
1,3-DICHLOROPROPENE (TRANS)	N.D.	5.0	N.D.	--
ETHYL BENZENE	N.D.	5.0	N.D.	--
2-HEXANONE	N.D.	5.0	N.D.	--
METHYLENE CHLORIDE	N.D.	5.0	N.D.	--
4-METHYL-2-PENTANONE	N.D.	5.0	N.D.	--
STYRENE	N.D.	5.0	N.D.	--
1,1,2,2-TETRACHLOROETHANE	N.D.	5.0	N.D.	--
TETRACHLOROETHENE	N.D.	5.0	N.D.	--
TOLUENE	N.D.	5.0	N.D.	98
1,1,1-TRICHLOROETHANE	N.D.	5.0	N.D.	--
1,1,2-TRICHLOROETHANE	N.D.	5.0	N.D.	--
TRICHLOROETHENE	N.D.	5.0	N.D.	107
TRICHLOROFLUOROMETHANE	N.D.	5.0	N.D.	--
VINYL ACETATE	N.D.	5.0	N.D.	--
VINYL CHLORIDE	N.D.	5.0	N.D.	--
TOTAL XYLENES	N.D.	5.0	N.D.	--


Aaron McMichael
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 30, 1995

Submission #: 9506326

Block Environmental Services

Atten: Ron Block

Project: 504
Received: June 23, 1995

re: 1 sample for Diesel analysis.
Method: EPA 3550/8015M

Sampled: June 21, 1995

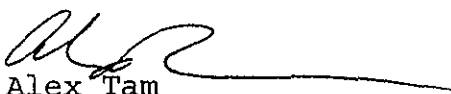
Matrix: SOIL

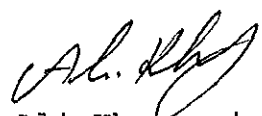
Extracted: June 27, 1995

Run: 7440-Y

Analyzed: June 29, 1995

<u>Spl #</u>	<u>Client</u>	<u>Sample ID</u>	<u>DIESEL</u> <u>(mg/Kg)</u>	<u>REPORTING</u> <u>LIMIT</u> <u>(mg/Kg)</u>	<u>BLANK</u> <u>RESULT</u> <u>(mg/Kg)</u>	<u>BLANK SPIKE</u> <u>RESULT</u> <u>(%)</u>
93655	1-4.5		N.D.	1.0	N.D.	88


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 30, 1995

Submission #: 9506326

Block Environmental Services

Atten: Ron Block

Project: 504

Received: June 23, 1995

re: 1 sample for Gasoline analysis.

Method: EPA 5030/8015M

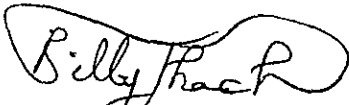
Sampled: June 21, 1995

Matrix: SOIL

Run: 7426-B

Analyzed: June 29, 1995

Spl #	Client	Sample ID	GASOLINE (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
93655	1-4.5		N.D.	1.0	N.D.	90



Billy Thach
Chemist



Ali Kharrazi
Organic Manager

CHROMALAB, INC.

Environmental Services (SDB)

June 30, 1995

Submission #: 9506326

Block Environmental Services

Atten: Ron Block

Project: 504

Received: June 23, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis.

Method: EPA 3550/8270

Client Sample ID: 1-4.5

Spl#: 93655

Sampled: June 21, 1995

Matrix: SOIL

Run: 7436-Y

Extracted: June 26, 1995

Analyzed: June 29, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
PHENOL	N.D.	0.05	N.D.	--
BIS(2-CHLOROETHYL) ETHER	N.D.	0.05	N.D.	--
2-CHLOROPHENOL	N.D.	0.05	N.D.	62
1,3-DICHLOROBENZENE	N.D.	0.05	N.D.	--
1,4-DICHLOROBENZENE	N.D.	0.05	N.D.	--
BENZYL ALCOHOL	N.D.	0.05	N.D.	--
1,2-DICHLOROBENZENE	N.D.	0.05	N.D.	--
2-METHYLPHENOL	N.D.	0.05	N.D.	--
BIS(2-CHLOROISOPROPYL) ETHER	N.D.	0.05	N.D.	--
4-METHYLPHENOL	N.D.	0.05	N.D.	--
N-NITROSO-DI-N-PROPYLAMINE	N.D.	0.05	N.D.	60
HEXACHLOROETHANE	N.D.	0.05	N.D.	--
NITROBENZENE	N.D.	0.05	N.D.	--
ISOPHORONE	N.D.	0.05	N.D.	--
2-NITROPHENOL	N.D.	0.05	N.D.	--
2,4-DIMETHYLPHENOL	N.D.	0.05	N.D.	--
BIS(2-CHLOROETHOXY) METHANE	N.D.	0.05	N.D.	--
2,4-DICHLOROPHENOL	N.D.	0.05	N.D.	--
1,2,4-TRICHLOROBENZENE	N.D.	0.05	N.D.	65
NAPHTHALENE	N.D.	0.05	N.D.	--
4-CHLOROANILINE	N.D.	0.05	N.D.	--
HEXACHLOROBUTADIENE	N.D.	0.05	N.D.	--
4-CHLORO-3-METHYLPHENOL	N.D.	0.10	N.D.	75
2-METHYLNAPHTHALENE	N.D.	0.05	N.D.	--
HEXACHLOROCYCLOPENTADIENE	N.D.	0.05	N.D.	--
2,4,6-TRICHLOROPHENOL	N.D.	0.05	N.D.	--
2,4,5-TRICHLOROPHENOL	N.D.	0.05	N.D.	--
2-CHLORONAPHTHALENE	N.D.	0.05	N.D.	--
2-NITROANILINE	N.D.	0.05	N.D.	--
DIMETHYL PHTHALATE	N.D.	0.05	N.D.	--
ACENAPHTHYLENE	N.D.	0.05	N.D.	--
3-NITROANILINE	N.D.	0.05	N.D.	--
ACENAPHTHENE	N.D.	0.05	N.D.	75
2,4-DINITROPHENOL	N.D.	0.25	N.D.	--
4-NITROPHENOL	N.D.	0.05	N.D.	--
DIBENZOFURAN	N.D.	0.05	N.D.	--
2,4-DINITROTOLUENE	N.D.	0.05	N.D.	--
2,6-DINITROTOLUENE	N.D.	0.05	N.D.	--

CHROMALAB, INC.

Environmental Services (SDB)

June 30, 1995

Submission #: 9506326

page 2

Block Environmental Services

Atten: Ron Block

Project: 504

Received: June 23, 1995

re: One sample for Semivolatile Organic Compounds (B/NAs) analysis, continued.

Method:

EPA 3550/8270

Client Sample ID: 1-4.5

Spl#: 93655

Sampled: June 21, 1995


Matrix: SOIL


Run: 7436-Y

Extracted: June 26, 1995

Analyzed: June 29, 1995

Analyte	RESULT (mg/Kg)	REPORTING LIMIT (mg/Kg)	BLANK RESULT (mg/Kg)	BLANK SPIKE RESULT (%)
DIETHYL PHTHALATE	N.D.	0.05	N.D.	--
4-CHLOROPHENYL PHENYL ETHER	N.D.	0.05	N.D.	--
FLUORENE	N.D.	0.05	N.D.	--
4-NITROANILINE	N.D.	0.05	N.D.	--
4,6-DINITRO-2-METHYLPHENOL	N.D.	0.25	N.D.	--
N-NITROSO-DI-N-PHENYLAMINE	N.D.	0.05	N.D.	--
4-BROMOPHENYL PHENYL ETHER	N.D.	0.05	N.D.	--
HEXACHLOROBENZENE	N.D.	0.05	N.D.	--
PENTACHLOROPHENOL	N.D.	0.25	N.D.	76
PHENATHRENE	N.D.	0.05	N.D.	--
ANTHRACENE	N.D.	0.05	N.D.	--
DI-N-BUTYL PHTHALATE	N.D.	0.05	N.D.	--
FLUORANTHENE	N.D.	0.05	N.D.	--
PYRENE	N.D.	0.05	N.D.	77
BUTYL BENZYL PHTHALATE	N.D.	0.05	N.D.	--
3,3'-DICHLOROBENZIDINE	N.D.	0.10	N.D.	--
BENZO (A) ANTHRACENE	N.D.	0.05	N.D.	--
BIS (2-ETHYLHEXYL) PHTHALATE	N.D.	0.05	N.D.	--
CHRYSENE	N.D.	0.05	N.D.	--
DI-N-OCTYL PHTHALATE	N.D.	0.05	N.D.	--
BENZO (B) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (K) FLUORANTHENE	N.D.	0.05	N.D.	--
BENZO (A) PYRENE	N.D.	0.05	N.D.	--
INDENO (1,2,3 C,D) PYRENE	N.D.	0.05	N.D.	--
DIBENZ (A,H) ANTHRACENE	N.D.	0.05	N.D.	--
BENZ (G,H,I) PERYLENE	N.D.	0.05	N.D.	--


Alex Tam
Chemist


Ali Kharrazi
Organic Manager

CHROMALAB, INC. SAMPLE RECEIPT CHECKLIST

Client Name BLOCK
 Project 504
 Reference/Subm # 22594/9501326
 Checklist completed by: Chowling 6/26/95
 Signature _____ Date _____

Date/Time Received 6/22/95 - 8:38
 Received by PSOLS
 Carrier name _____
 Logged in by RN 6/23/95
 Matrix 5011
 Date _____ Time _____
 Initials _____ Date _____

- Shipping container in good condition? NA Yes No
- Custody seals present on shipping container? Intact Broken Yes No
- Custody seals on sample bottles? Intact Broken Yes No
- Chain of custody present? Yes No
- Chain of custody signed when relinquished and received? Yes No
- Chain of custody agrees with sample labels? Yes No
- Samples in proper container/bottle? Yes No
- Samples intact? Yes No
- Sufficient sample volume for indicated test? Yes No
- VOA vials have zero headspace? NA Yes No
- Trip Blank received? NA Yes No
- All samples received within holding time? Yes No
- Container temperature? _____
- pH upon receipt _____ pH adjusted _____ Check performed by: _____ NA

Any **NO** response must be detailed in the comments section below. If items are not applicable, they should be marked NA.

Client contacted? _____ Date contacted? _____
 Person contacted? _____ Contacted by? _____
 Regarding? _____
 Comments: _____

 Corrective Action: _____

ATTACHMENT 9

RMC LONESTAR

TECHNICAL SERVICES

4750 Norris Canyon Road, Suite A
San Ramon, California 94583
(510) 866-2780

Group 232	Mix Number 6780
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Report No. 32488
07/11/1995
08040004

4.0 C+F PG

BLOCK ENVIRONMENTAL SERVICES VARIOUS
ATTN: RON BLOCK

MATERIALS DESCRIPTION


CEMENT TYPE II ASTM C-150
POZZ INTERNATIONAL FLYASH ASTM C-618 CLASS F
3/8 PEA GVL CALMAT ASTM C-33
CONCRETE SAND ELIOT ASTM C-33
BLEND SAND TIDEWATER P.S.

This mix will produce concrete meeting the design criteria when produced, sampled and tested in accordance with ASTM C-94 and UBC. Mix will be adjusted as required by UBC Section 2604 to maintain the noted strength level.

Strength 28 day (f'c)	1000	psi
Cementitious Material	4.00	sk.
Maximum Size Aggregate	PG	in.
Slump	4.00 ± 1.00	in.
W/C+F ratio	1.00	
Entrained Air	n/a	%

Code	Material	Solid Volume	SSD Quantity
1002	CEMENT TYPE II	0.96 cf	188 lbs
9001	POZZ INTERNATIONAL FLYASH	1.31 cf	188 lbs
1128	3/8 PEA GVL CALMAT	5.38 cf	900 lbs
2107	CONCRETE SAND ELIOT	11.43 cf	1905 lbs
2108	BLEND SAND TIDEWATER P.S.	1.23 cf	200 lbs
	Air (2.50 %)	0.67 cf	
	Water (45.0 gal.)	6.02 cf	375 lb
	Totals	27.00 cf	. . . 3756 lbs

Uses: LEAN CONCRETE
Note : PLEASE CHECK WITH YOUR PUMPER REGARDING THE PUMPABILITY OF THIS MIX.

	Additions
---	-----------

See Reverse For Terms,
Conditions and Warnings



WEIGHMASTER CERTIFICATE

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

*LOCATION WHERE WEIGHED
(SEE REVERSE FOR PLANT I.D.)

TICKET NUMBER	
3223589	
LV. PLANT	ARR. JOB
1450522	1537
START POUR	END POUR
523	1537
LV. JOB	ARR. PLANT
TRUCK #	BATCH TIME
435	14:37

SOLD TO: CASH SALES - ONE COLOR COMM	SHIP TO: 1001 42ND ST OAKLAND
ZONE: AL00424	

CUST. #	PROJECT #	SHIP DATE	*PLANT	ORDER #	CUSTOMER P.O.	JOB/LOT #	
99232		14-Jul-95	32	57		/	
MIX #	CU. YDS.	LOAD #	QTY. ORD.	QTY. SHIP'D	SLUMP	USE	DRIVER
6780	2.00	1	2.00	2.00	4.0	MISC.	HOLLIS, DAVE

MIX DESCRIPTION	UNIT PRICE	U/M	AMOUNT
4.0 C+E PG	71.00	CY	142.00

PROD.	QUANTITY	U/M	DESCRIPTION
	22600		3223589
			240.00 426.00
			MINIMUM LOAD 7/14 7/14

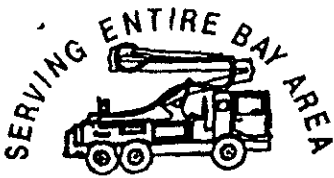
WATER ADDED AT: PLANT: <u>2</u> GALS. JOB SITE: <u>2</u> GALS. CYLINDERS TAKEN:	<p align="center">CERTIFICATE OF COMPLIANCE</p> <p>WE CERTIFY that the portland cement, chemical and mineral admixtures contained in the material described below are brands stated and comply with specifications for</p> <p>CEMENT BRAND: _____ TYPE: <u>II</u> MILL LOCATION: _____</p> <p>CHEMICAL ADMIX: BRAND: _____ TYPE: _____</p> <p>MANUFACTURER: _____</p> <p>MINERAL ADMIX: MANUFACTURER: _____ CLASS: _____</p>	<p>SUB-TOTAL 222.00</p> <p>SALES TAX 18.32</p> <p>TOTAL 240.32</p> <p>STANDBY TIME TOTAL</p>
--	---	--

REMARKS: DELIVERY TO BE MADE ON LINDEN ST BETWEEN 42ND & 43RD
COLLECT ON JOB D/L & PHONE ON CHECK MUST HAVE ADDRESS NO P/O BOX

CUMULATIVE \$ 240.32

RMC LONESTAR BY CRAIG AUSTIN	WEIGHMASTER DEPUTY	CUSTOMER'S SIGNATURE: REC'D BY X <u>[Signature]</u> 14:30
---------------------------------	-----------------------	--

CONTROL NO. 591523



"Let us turn up the pressure"

FRI 2:00

ALL BAY CONCRETE PUMPING

3890 La Colina Road • El Sobrante, CA 94803

(510) 222-5933 • 800-210-PUMP

Mobile (510) 816-3565 • Pager (510) 718-1218

INVOICE/WORK ORDER

0932

PO# C.O.D

DATE 7-15-95 JOB START 2:00

CONTRACTOR Ron Block Environmental

JOB ADDRESS 1001 42nd ST OAK

ADDRESS Services

XST Linden between 42nd & 43rd

JOB PHONE _____

PHONE 682-7200

SYSTEM REQUIRED SOV 2"

LEFT YARD 1:30 LEFT JOB _____ TOTAL TIME _____

HOURLY RATE: \$ 70.00 YARDAGE RATE: \$ 2.00

PUMP # _____ OPERATOR _____

EXTRA HOSE (if any) _____ feet @ \$ _____ /foot*
k. * \$ _____ /foot for over 200 feet of hose.

MATERIALS PUMPED SAND slurry # of yards 2

SUPPLIER PMC mix # 6780

DAMAGE 533 + 50 54

DOWN TIME _____

REASON _____

CHARGES

TOTAL TIME: 3hr min 210.00

TOTAL YARDAGE: 2yd 4.00

EXTRA HOSE: _____

OTHER: OFFSITE W/CHART 35.00

BALANCE DUE: 250.00

ACCEPTED BY Dan PASHA

— TERMS: NET 15 DAYS FROM DATE OF INVOICE —

NOTE: Time starts when truck leaves our yard; time stops when cleaned up on your job. There is a four (4) hour minimum on 3/4 pumps, and a three (3) hour minimum on grout pumps.

BACK CHARGES ARE NOT ACCEPTED UNLESS THEY ARE SPECIFIED ON INVOICE AT TIME OF POUR.

The Contractor agrees to furnish water to concrete pump, accept responsibility for delays caused by varying job conditions, improper scheduling of trucks, changes in gradation of aggregate or incorrect batching of concrete.

The above signed customer, by the placing of this order or the acceptance of this invoice, agrees to pay reasonable attorney's fees and/or collection charges in the event action hereafter becomes necessary for the collection of the value of the work herein authorized.

THANK YOU FOR YOUR PATRONAGE!