#### ALAMEDA COUNTY

#### **HEALTH CARE SERVICES**

**AGENCY** 

DAVID J. KEARS, Agency Director



StID 235

March 17, 1998

Mr. Li Sun Golden Value Inc 530 MacDonald Richmond, CA 94801 ENVIRONMENTAL HEALTH SERVICES ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

Mr. Donald Gibson Donald & Majorie Gibson Trust 1175 Clarendon Cresent Oakland, CA 94610

Re: Fuel Leak Site Case Closure for 1199 E 12th Street, Oakland, CA

Dear Messrs. Sun and Gibson:

This letter transmits the enclosed underground storage tank (UST) case closure letter in accordance with Chapter 6.75 (Article 4, Section 25299.37[h]). The State Water Resources Control Board adopted this letter on February 20, 1997. As of March 1, 1997, the Alameda County Environmental Protection Division is required to use this case closure letter for all UST leak sites. We are also transmitting to you the enclosed case closure summary. These documents confirm the completion of the investigation and cleanup of the reported release at the subject site. The subject fuel leak case is closed.

#### SITE INVESTIGATION AND CLEANUP SUMMARY

Please be advised that the following conditions exist at the site:

- up to 2,300 ppb TPH as gasoline and 1,800 ppb toluene exists in groundwater beneath the site; and,
- a risk management plan has been submitted to address future soil excavation and/or redevelopment of the stie.

If you have any questions, please contact me at (510) 567-6762.

lisali-

eva chu

Hazardous Materials Specialist

#### enlosure:

- 1. Case Closure Letter
- 2. Case Closure Summary

c: Frank Kliewer City of Oakland-Planning 1330 Broadway, 2nd Floor Oakland, CA 94612

files (gibson.5)

#### **HEALTH CARE SERVICES**

AGENCY



DAVID J. KEARS, Agency Director

**ENVIRONMENTAL HEALTH SERVICES** ENVIRONMENTAL PROTECTION (LOP) 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577 (510) 567-6700 FAX (510) 337-9335

#### REMEDIAL ACTION COMPLETION CERTIFICATION

StID 235 - 1199 E 12th Street, Oakland, CA (1-3K gallon laquer thinner and 1-6K gallon mineral spirits tanks removed in May 1990)

March 10, 1998

Mr. Li Sun Golden Value Inc 530 MacDonald Richmond, CA 94801

Mr. Donald Gibson Donald & Majorie Gibson Trust 1175 Clarendon Cresent Oakland, CA 94610

Dear Messrs. Sun and Gibson:

This letter confirms the completion of site investigation and remedial action for the underground storage tanks formerly located at the above-described location. Thank you for your cooperation throughout this investigation. Your willingness and promptness in responding to our inquiries concerning the former underground storage tanks are greatly appreciated.

Based on information in the above-referenced file and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Section 2721(e) of the California Code of Regulations.

Please contact our office if you have any questions regarding this matter.

Sincerely,

Mee Ling Tung, Director

Richard Pantages, Chief of Division of Environmental Protection cc:

Kevin Graves, RWQCB Dave Deaner, SWRCB Leroy Griffin, OFD files-ec (gibson.3)

# CASE CLOSURE SUMMARY Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION Date: December 8, 1997

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy

City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700

Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

#### II. CASE INFORMATION

Site facility name: Gibson Paint Co

Site facility address: 1199 E 12th Street, Oakland, CA 94606

RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 235

URF filing date: SWEEPS No: N/A

#### Responsible Parties: Addresses:

#### Phone Numbers:

1. Mr. Li Sun
Golden Value Inc
530 MacDonald
Richmond, CA 94801

2. Mr. Donald Gibson Donald & Majorie Gibson Trust 1175 Clarendon Cresent Oakland, CA 94610 (510) 444-3256

Tank No:	Size in gal.:	Contents:	<pre>Closed in-place   or removed?:</pre>	<u>Date:</u>
1	3,000	Lacquer Thinner	Removed	5/17/90
2	6,000	Mineral Spirits	Removed	5/17/90

#### III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Leaking UST

Site characterization complete? YES

Date approved by oversight agency: 12/1/97

Monitoring Wells installed? Yes Number: 4
Proper screened interval? Yes, 10' to 25'bgs

Highest GW depth below ground surface: 7.96' Lowest depth: 16.66' in MW-3

Flow direction: SSW

Most sensitive current use: Residential

Are drinking water wells affected? No Aquifer name: Merritt Sand

Is surface water affected? No Nearest affected SW name: NA Off-site beneficial use impacts (addresses/locations): None

Report(s) on file? YES Where is report(s) filed? Alameda County
1131 Harbor Bay Pkwy
Alameda, CA 94502

#### Treatment and Disposal of Affected Material:

<u>Material</u>	Amount (include units)	Action (Treatment or Disposal w/destination)	<u>Date</u>
Tank	2 USTs	Unknown	5/17/90
Piping Soil	~100 cy	Recycled at Valley Rock Products	4/23/92

Maximum Do		Soi	Concentrations l (ppm) <sup>1</sup> After <sup>2</sup>		(dqq)	ter Cleanup
TPH (Gas) TPH (Diese	el)	330 <10	ns Ns	9,700	2,300	
Benzene Toluene Ethylbenze Xylenes	ene	<.10 110 1.0 7.1	ns ns ns ns	77 55,000 530 5,200	ND 1,800 220 410	
Other	Acetone MEK MIBK	53 63	ns Ns	560 930 80	ND ND	,

- Note: 1 soil sample, #4, collected at time of UST removal, 5/90
  - 2 overexcavation of 3K mineral spirit tank pit, but no confirmatory soil samples collected
    - maximum concentrations ever detected from well MW-3
  - data from most recent groundwater sampling event, 1/97

#### Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

#### IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan?

Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan?

Does corrective action protect public health for current land use? YES Site management requirements: A risk management plan has been submitted to address future soil excavation and/or redevelopment of site.

Should corrective action be reviewed if land use changes? YES Monitoring wells Decommissioned: No, pending site closure

Number Decommissioned: 0 Number Retained: 4

List enforcement actions taken: None

List enforcement actions rescinded: NA

#### V. LOCAL AGENCY REPRESENTATIVE DATA

Name: Eva Chu

Title: Haz Mat Specialist

Signature: William

12/19/97

Reviewed by

Name: Barney Chan

Title: Haz Mat Specialist

Signature: Pames Ma

Date: /2-9-97

Date:

Name: Thomas Peacock

Title: Supervisor

Signature: Mary Jaroch

Date: 12-19-97

VI. RWQCB NOTIFICATION

Date Submitted to RB: 12/22/97

RB Response: Concur

RWQCB Staff Name: Kevin Graves

Title: AWRCE SING

Stephen Hill

Date: 1/8/98

Signature: /

VII. ADDITIONAL COMMENTS, DATA, ETC.

The site was formerly a paint manufacturing factory, located at the NW corner of the intersection of E 12th Street and 12th Avenue in Oakland.

In May 17, 1990 a 6,000 gallon UST for the storage of lacquer thinner (located under the sidewalk of 12th Avenue) and a 3,000 gallon UST for the storage of mineral spirits (located under the driveway) were removed (see Fig 1). Mineral spirit is composed of straight chain and cycloparafins in the  $C_9$ - $C_{12}$  range, detectable in the TPHg range. Lacquer thinner varies in composition but generally consists of toluene, xylene, paraffins, and the solvents MEK, Methyl propyl ketone, isopropyl- and iso-butyl acetate, and IPA, ethanol and methanol. These solvents are detected using EPA Method 8240.

The 3K UST had at least one large hole. Soil samples (#2, 3, 4, and 5) were collected below the ends of each UST. A water sample (#1) was collected from the lacquer thinner tank pit. All samples were analyzed for TPHg, TPHd, and VOCs (using Method 8240). Up to 330ppm TPHg, 110ppm toluene, 53ppm acetone, and 63ppm MEK were found in soil. Lower levels of BEX and MIBK were also identified in soil. The grab water sample contained 1,300ppb TPHg (info from text of reports, analytical are not available) and low levels of VOCs. (See Table 1)

The 3K mineral spirit tank pit was overexcavated, removing ~2' of soil from each sidewall. Confirmatory soil samples were not collected. The lacquer thinner UST pit (under the sidewalk) could not be overexcavated due to the proximity of 12th Avenue and overhead and underground utility lines.

In August 1991 three groundwater monitoring wells (MW-1 through MW-3) were installed around the former USTs. Groundwater was encountered at ~15' to 20' bgs. Soil samples from the capillary fringe contained elevated TPHg (1,300ppm) in borings MW-1 and MW-2; and VOCs (25ppm acetone, 27ppm 2-butanone (MEK) in boring MW-3 and 0.51ppm TCA in borings MW-1 and MW-2). Groundwater also contained elevated TPHg and VOCs. In addition, wells MW-2 and MW-3 contained floating product. (See Fig 1, Table 2)

Groundwater was sampled regularly from August 1991. After April 1992 MBK and acetone were not detected above the detection limits. However MEK, as well as TPH (in the range of gasoline) and toluene, which are constituents of lacquer thinner, have been identified in elevated concentrations. In addition, HVOCs have also been identified in groundwater (1,1,DCA at 410ppb, 1,1,1-TCA at 10ppb). The HVOCs were not constituents of the substances stored in the former USTs and their source is not known. (See Table 3)

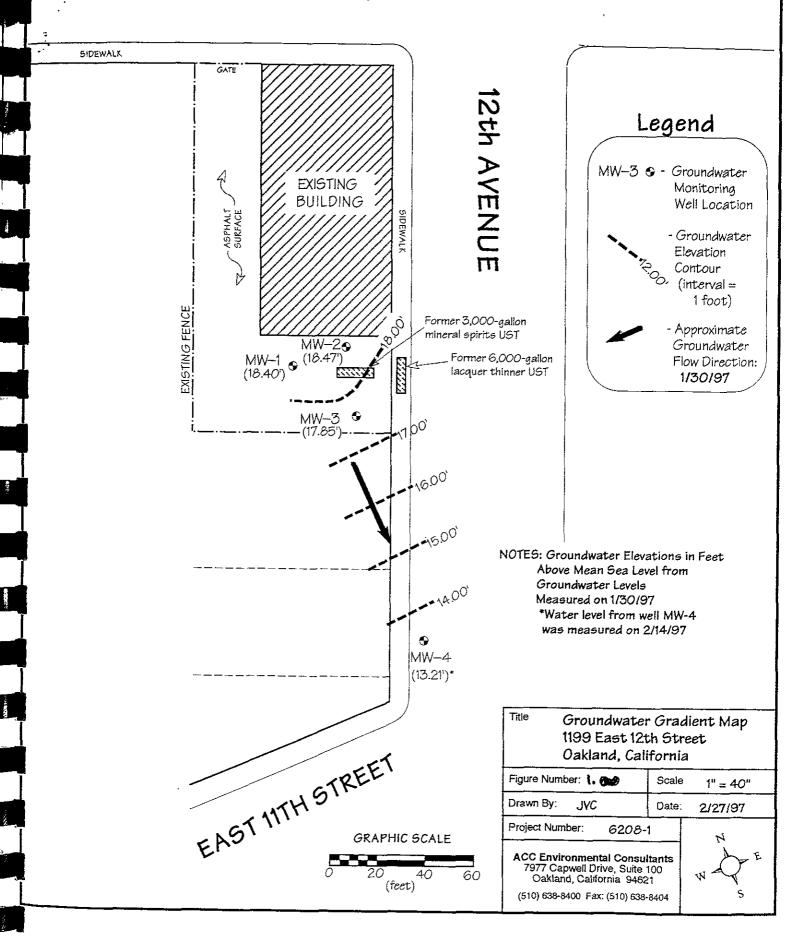
Another well, MW-4, was installed in January 1995 to delineate the extent of the groundwater plume. This well was sampled from Jan 1995 to Feb 1997 without detecting BTEX, HVOCs, or MEK. It appears that the plume is localized to the immediate vicinity of well MW-3. The VOC concentration trend indicated an overall decrease in concentration of all constituents identified in groundwater to levels which would not pose a risk to human health or the environment under current use scenario. A risk management plan was submitted to address potential future soil excavation and/or redevelopment of the site.

In summary, case closure is recommended because:

- the leak and ongoing sources have been removed;
- the site has been adequately characterized;
- the dissolved plume is not migrating;
- no water wells, surface water, or other sensitive receptors are likely to be impacted; and,
- the site presents no significant risk to human health or the environment.

gibson.1

## EAST 12th STREET



## SUPERIOR ANALYTICAL LABORATORY, INC.

1555 Burke, Unit I  $\cdot$  San Francisco, Ca 94124  $\cdot$  Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO.: 80872

DATE RECEIVED: 05/17/90

CLIENT: Miller Environmental Company

DATE REPORTED: 05/23/90

CLIENT JOB NO .: GIBSON BAINT

#### Table 1

ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS by Modified EPA SW-846 Method 8015

LAB #	Sample Identification	Concentration	
	Sample Identification	Gasoline Range	Diesel Range
1	water sple from lac thinner pit		
2	EAST END OF 6000 GAL. TANK HOLE	ND<10	ND<10
3	WEST END OF 6000 GAL. TANK HOLE	110	- ND<10
4	NORTH END OF 3000 GAL. TANK HOLE		ND<10
5	SOUTH END OF 3000 GAL. TANK HOLE	330	ND<10

mg/kg - parts per million (ppm)

Method Detection Limit for Gasoline and Diesel in Soil: 10 mg/Kg QAQC Summary:

Daily Standard run at 200mg/L: RPD Gasoline = 3% RPD Diesel = 2% MS/MSD Average Recovery = 101%: Duplicate RPD = 2%

Richard Srna, Ph.D.

Laboratory Manager

## SUPERIOR ANALYTICAL LABORATORY, INC.

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO. 52047~1

CLIENT: Miller Environmental

DATE RECEIVED: 05/17/90 DATE REPORTED: 06/04/90 JOB NO. Gibson Paint

cont. Table 1

Water from put lacques Chieves

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS by Gas Chromatography/ Mass Spectrometry

SAMPLE: #1

	Compound	ug/1	Compound	ug/l
CI	hloromethane	ND<10	Cis-1,3-Dichloropropene	ND<3
В		ND<10	Trichloroethene	ND<3
V	inyl Chloride	ND<10	Dibromochloromethane	ND<3
Cl	hloroethane	ND<10	1,1,2-Trichloroethane	ND<3
Me	ethylene Chloride	ND<10	Benzene (MDL=ND<2)	3
A	cetone (MDL=ND<10)	560	Trans-1,3-Dichloropropene	ND<3
Ca	arbon disulfide	ND<3	-2-Chloroethyl vinyl ether	ND<3
		ND<3	Bromoform	ND<3
		ND<3 AUBK	C4-Methy1-2-Pentanone(MDL=ND<	10) 80
		ND<3	2-Hexanone	NĎ<10
		ND<3	Tetrachloroethene	ND<3
		ND<3	1,1,2,2-Tetrachloroethane	ND<3
		ND<3	Toluene (MDL=ND<3)	710
	-Butanone (MDL=ND<20)	930	Chlorobenzene	ND<3
		ND<3	Ethylbenzene (MDL=ND<3)	15
		ND<3	Styrene	ND<3
		ND<10	Total Xylenes (MDL=ND<3)	84
		ND<3	1,3-Dichlorobenzene	ND<3
1 .	,2-Dichloropropane	VD<3	1,2&1,4-Dichlorobenzenes	ND<3

ug/l = part per billion (ppb) QC DATA:

Surrogate Recoveries

comments:

MER

Richard Srna, Ph.D

QC Limits

Laboratory Director

### SUPERIOR ANALYTICAL LABORATORY, INC.

MILLER ENVIRONMENTAL CO

1555 BURKE, UNIT I · SAN FRANCISCO, CA 94124 · PHONE (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO. 52047-2

CLIENT: Miller Environmental

DATE RECEIVED: 05/17/90 DATE REPORTED: 06/04/90

JOB NO. Gibson Paint

cont. Table 1

	matography	- VOLATILE ORGANICS / Mass Spectrometry  : #3 (2)  Compound  Compound	tant put
Compound	ug/kg	compound East	ug/kg
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone (MDL=ND<500) Carbon disulfide Trichlorofluoromethane 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MDL=ND<1000)	ND<500 ND<500 ND<500 ND<500 ND<500 43,000 ND<150 ND<150 ND<150 ND<150 ND<150 ND<150 ND<150 ND<150	Cis-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene Trans-1,3-Dichloropropene -2-Chloroethyl vinyl ether Bromoform 4-Methyl-2-Pentanone(MDL=ND<2-Hexanone Tetrachloroethene 1,1,2,2-Tetrachloroethane Toluene Chlorobenzene	ND<150 ND<150 ND<150 ND<150 ND<100 ND<150 ND<150 ND<150 ND<500 ND<500 ND<150 ND<150 ND<150 ND<150
1,1,1-Trichloroethane Carbon Tetrachloride Vinyl Acetate Bromodichloromethane 1,2-Dichloropropane	ND<150 ND<150 ND<500 ND<150 ND<150	Ethylbenzene (MDL=ND<150) Styrene Total Xylenes (MDL=ND<150) 1,3-Dichlorobenzene 1,2&1,4-Dichlorobenzenes	220 ND<150 180 ND<150 ND<150

ug/kg = part per billion (ppb) QC DATA:

Surrogate Recoveries		QC	QC Limits		
		water	soi?		
1,2-DCA-d4	104%	76-114	81-117		
Toluene-d8	97%	88-110	81-140		
Bromofluorobenzene	90%	86-115	74-121		

comments:

Richard Srna, Ph.D.

Laboratory Director

JÙN - 6 1990

## SUPERIOR ANALYTICAL LABORATORY, INC.

MILLER ENVIRONMENTAL CO.

1555 Burke, Unit  $I \cdot$  San Francisco, Ca 94124  $\cdot$  Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO. 52047-3

CLIENT: Miller Environmental

DATE RECEIVED: 05/17/90 DATE REPORTED: 06/04/90 JOB NO. Gibson Paint

cont. Table 1

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS by Gas Chromatography/ Mass Spectrometry

SAMPLE: #4 (#3)

from book put

Compound	ug/kg	Compoun	d -	west	ug/kg
Chloromethane	ND<500	Cis-1,3-Dichlo	ropropen	<b>e</b>	ND<150
Bromomethane	ND<500	Trichloroethen			ND<150
Vinyl Chloride	ND<500	Dibromochlorom			ND<150
Chloroethane	ND<500	1,1,2-Trichlor			ND<150
Methylene Chloride	ND<500	Benzene			ND<100
Acetone (MDL=ND<500)	53,000	Trans-1,3-Dich	loroprop	ene	ND<150
Carbon disulfide	ND < 150	2-Chloroethyl			ND<150
Trichlorofluoromethane	ND<150	Bromoform		.,,,,	ND<150
1,1-Dichloroethene	ND< 150	4-Methy1-2-Pen	tanone(M	DI =ND<	
1,1-Dichloroethane	ND<150	2-Hexanone			ND<500
1,2-Dichloroethene (total)	ND<150	Tetrachloroeth	ene		ND<150
Chloroform	ND<150	1,1,2,2-Tetrac		ane	ND<150
1,2-Dichloroethane	ND<150	Toluene			ND<150
2-Butanone (MDL=ND<1000)	63,000	Chlorobenzene			ND<150
1,1,1-Trichloroethane	ND<150	Ethylbenzene	(MDL=ND<	150)	ND<150
Carbon Tetrachloride	ND<150	Styrene	,	,	ND<150
Vinyl Acetate	ND<500	Total Xylenes	(MDL=ND<	150)	ND<150
Bromodichloromethane	ND<150	1,3-Dichlorobe			ND<150
1,2-Dichloropropane	ND<150	1,2&1,4-Dichlo		es	ND<150
ug/kg = part per billion (p QC DATA:	(dq				
Surrogate Re	coveries		QC Limi	ts	
		water		50	

comments:

Richard Srna, Ph.D.

aboratory Director

JUN ~ 6 1990

# SUPERIOR ANALYTICAL LABORATORY, INC.

MILLER ENVIRONMENTAL CO.

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081

CERTIFICATE OF ANALYSIS

LABORATORY NO. 52047-4

CLIENT: Miller Environmental

DATE RECEIVED: 05/17/90 DATE REPORTED: 06/04/90

JOB NO. Gibson Paint

cont. Table 1

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS by Gas Chromatography/ Mass Spectrometry

SAMPLE: #5 (#4)

from 3000 put

Common and all		, · · · · · · · · · · · · · · · · · · ·		
Compound 	ug/kg 	Compound	ug/kg	
Chloromethane Bromomethane Vinyl Chloride Chloroethane Methylene Chloride Acetone (MDL=ND<500) Carbon disulfide Trichlorofluoromethane 1,1-Dichloroethene 1,1-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 1,2-Dichloroethane 2-Butanone (MDL=ND<1000) 1,1,1-Trichloroethane Carbon Tetrachloride Vinyl Acetate Bromodichloromethane 1,2-Dichloropropane	ND<500 ND<500 ND<500 ND<500 ND<500 9,200 ND<150 ND<150 ND<150 ND<150 ND<150 ND<150	Cis-1,3-Dichloropropene Trichloroethene Dibromochloromethane 1,1,2-Trichloroethane Benzene Trans-1,3-Dichloropropene 2-Chloroethyl vinyl ether Bromoform c-2-c-2 4-Methyl-2-Pentanone(MDL=ND 2-Hexanone M/B k Tetrachloroethene 1,1,2,2-Tetrachloroethane Toluene Chlorobenzene Ethylbenzene (MDL=ND<150) Styrene Total Xylenes (MDL=ND<150) 1,3-Dichlorobenzene 1,2&1,4-Dichlorobenzenes	ND<150	

ug/kg = part per billion (ppb) QC DATA:

Toluene-d8............ 101%

Bromofluorobenzene.... 94%

Surrogate Recoveries

QC Limits water soil 76-114 81-117 88-110 81-140 86-115

74-121

comments:

Richard Srna, Ph.D.

Laboratory Director



JUN - 6 1990

# MILLER ENVIRONMENTAL CO.

## SUPERIOR ANALYTICAL LABORATORY, INC.

1555 Burke, Unit I · San Francisco, Ca 94124 · Phone (415) 647-2081 CERTIFICATE 0 F ANALYSIS

LABORATORY NO. 52047-5 CLIENT: Miller Environmental

DATE RECEIVED: 05/17/90 DATE REPORTED: 06/04/90 JOB NO. Gibson Paint

cont. Table 1

EPA SW-846 METHOD 8240 - VOLATILE ORGANICS by Gas Chromatography/ Mass Spectrometry

SAMPLE: #6 (#5)

from 3000 f South Compound ug/kg Compound ug/kg Chloromethane ND<500 Cis-1,3-Dichloropropene ND<150 Bromomethane ND<500 Trichloroethene ND<150 Vinyl Chloride ND<500 Dibromochloromethane ND<150 Chloroethane ND<500 1,1,2-Trichloroethane ND<150 Methylene Chloride ND<500 Benzene ND<100 Acetone (MDL=ND<500) 1.000 Trans-1,3-Dichloropropene ND<150 Carbon disulfide ND<150 2-Chloroethyl vinyl ether ND<150 Trichlorofluoromethane ND<150 Bromoform ND<150 1,1-Dichloroethene ND< 150 4-Methy1-2-Pentanone ND<500 1,1-Dichloroethane ND< 150 2-Hexanone 1,2-Dichloroethene (total) ND<500 ND<150 Tetrach loroethene ND<150 Chloroform. ND<150 1,1,2,2-Tetrachloroethane ND<150 1,2-Dichloroethane ND<150 Toluene (MDL=ND<150) 110,000 2-Butanone ND<1000 Chlorobenzene ND<150 1,1,1-Trichloroethane ND<150 Ethylbenzene (MDL=ND<150) 1000 Carbon Tetrachloride ND<150 Styrene ND<150 Vinyl Acetate ND<500 Total Xylenes (MDL=ND<150) Bromodichloromethane 7100 1,3-Dichlorobenzene ND< 150 ND<150 1,2-Dichloropropane ND<150 1,2&1,4-Dichlorobenzenes ND< 150

ug/kg = part per billion (ppb) QC DATA:

Surrogate Recoveries QC Limits water soil 1,2-DCA-d4..... 76-114 Toluene-d8..... 81~117 84% 88-110 Bromofluorobenzene..... 81-140 99% 86-115 74-121

comments:

Richard Srna, Ph.D.

Laboratory Director

TABLE 2

Analytical Results for Soil samples
Ground-water Monitoring Well Installation

		00,~~		00	b		
	ft	TPH ///				7	
<u>Sample</u>	Depth	<u>Gasoline</u>	B	<u>T</u>	<u> </u>	<u> </u>	<u>Pb</u>
MW1-5	5	ND	ND	ND	ND	ND	NA
-10	10	5.3	ИD	ND	ND	ND	0.15
-15	15	ND	ИD	ND	ND	ИD	NA
-20	20	(1600)	ND	ND	ND	ND	NA
_	<del></del>						
MW2-5	5	ND	ND	ND	ND	ND	NA
-10	10	ND	ND	ND	ND	ND	0.27
<del>-</del> 15	15	1.2	ND	ND	ND	ND	NA
-17	17	1300	ND	ND	ND	ND	NA
Ι,	<i>,</i>	(1300)		212	112		-11
MW3-5	5	ND	ND	ND	ND	ND	ND
-10	10	16	ND	ND.	ND	ND	NA
				/ / · · · · · · · · · · · · · · · · · ·			
-15	15	4.9	ND (	850°)	ND	ND	NA
				<b>`</b>			

- a) TPH/gas results expressed in mg/kg which is equivalent to parts per million (ppm). BTEX results expressed in micrograms per kilogram which is equivalent to parts per billion. Pb results expressed in milligrams per Liter which is equivalent to ppm.
- b) ND = Not detected

C) NA = not analyzed

TABLE 2
Other detected compounds by GC/MS-EPA 8240

4-methylft 2-Buta-2-Penta-Sample Depth none none <u>Acetone</u> MW1-5 5 ND ND ND ND -10 10 ND ND NDND-15 15 ND ND ND 510 -20 20 ND ND ND ND 5 ND MW2-5 ND ND ND 10 ND -10 ND ND ND -15ND 15 ND ND ND. -1717 ND ND ND 510 MW3-5 5 ND ND ND ND -10 10 -NDND ND ND -15 25,000 15 27,000 4000 ND

TABLE 3

LABORATORY RESULTS FOR GASOLINE RANGE HYDROCARBONS AS TPHG FROM 1991 TO 1994

		TPHG	
		DHS	MDL
WELL	DATE	MG/L	UG/L
MW1	Aug-91	3.7	500
<b>1</b>	Oct-91	1.6	50
	Nov-91	7.4	50
	Apr-92	3.3	50
ļ	Oct-92	1.6	50
	Mar-93	0.48	50
	Jul-93	0.65	80
	Oct-93	0.38	50
1	Feb-94	0.39	50
<u> </u>	Jun-94	0.25	50
MW2	Aug-91	26	500
	Oct-91	6.8	50
ì	Nov-91	15	50
ĺ	Apr-92	5.9	50
	Oct-92	16	50
ļ	Mar-93	2.9	50
	Jul-93	2.3	400
]	Oct-93	1.4	50
	Feb-94	2.3	160
	Jun-94	1.2	230
MW3	Aug-91	73	500
ł	Oct-91	40	50
	Nov-91	58	50
	Apr-92	5.9	50
	Oct-92	33	50
	Mar-93	36	1000
1	Jul-93	27	4000
	Oct-93	30	1600
1	Feb-94	150	9700
	Jun-94	23	2300

MDL = METHOD DETECTION LIMIT AS REPORTED BY LABORATORY

NA = NOT ANALYZED FOR / NOT REPORTED

ND = NOT DETECTED AT OR ABOVE METHOD DETECTION LIMITS

C:\GIBSON\915TABL2.XLS

Water purged during the development and sampling of the monitoring wells was temporarily stored on site in Department of Transportation approved, 55-gallon steel drums pending laboratory analytical results and proper disposal.

#### 4.0 RESULTS OF GROUNDWATER SAMPLING

Groundwater samples collected from each of the monitoring wells MW-1 through MW-4 were submitted to Entech Analytical Labs, Inc., (formally known as Trace Analytical) following chain of custody protocol and were analyzed for volatile organic hydrocarbons by EPA Method 624. Copies of the chain of custody record and analytical reports are included as Appendix 2. Water sample analytical results are summarized in Tables 3 through 6.

cont TABLE 3 - DETECTED CONSTITUENTS IN WELL MW-1

Date	Ethyl-	Methylene	Toluene	Xylene	Cis-1,2-	1,2-
	benzene	Chloride			Dichloroethene	Dichloroethene
Aug-91	ND	ND	ND	ND	ND	_,
Oct-91	ND	ND	ND	ND		20
Nov-91	ND	6.8	ND	ND		
Apr-92	35	ND	ND	10		<u></u>
Oct-92	ND	ND	ND	ND	16	
Mar-93	2	ND	5	ND	ND	8.4
Jun-93	ND	ND	ND	ND	ND	ND
Oct-93*	ND	ND	ND	ND	ND	ND
Feb-94	ND	ND	ND	ND	ND	ND
June-94	ND	ND	ND	ND	ND	ND
01/16/95	4.7	ND	ND	ND	18	ND
1/16/95**	ND	ND	ND	ND	ND	ND
04/18/95	ND	ND	ND	ND	ND	ND
10/25/95	ND	ND	ND	ND	ND	ND
01/26/96						
04/26/96	ND	ND	ND	ND	ND	ND
08/07/96						
01/30/97	ND	ND	ND	ND	ND	ND

Notes: All results in µg/L (approximately equal to ppb)

<sup>\*</sup>A concentration of 8.2 ppb TCE was detected during this sampling event

<sup>\*\*</sup>A concentration of 2.4 ppb benzene was detected during this sampling event

ND = Not detected above laboratory reporting limit

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# TABLE 3 - DETECTED CONSTITUENTS IN WELL MW-2

Date	Ethyl-	Toluene	oluene Xylenes 1,1-		Cis-1,2-	1,2-
	benzene			ethene	Dichloro-	Dichloro-
					ethene	ethene
Aug-91*	97	200	540	ND	51	ND
Oct-91	120	350	820	ND	ND	ND
Nov-91**	ND	330	830	ND	ND	ND
Apr-92	81	ND	1,100	11	ND	ND
Oct-92	ND	ND	ND	ND	34	9.6
Mar-93	15	8.4	ND	11	ND	16
Jun-93	26	ND	26	7.3	ND	ND
Oct-93	17	ND	8.8	ND	ND	ND
Feb-94	ND	ND	ND	ND	ND	ND
Jun-94	ND	ND	ND	ND	ND	ND
01/16/95	9.2	ND	ND	12	21	ND
01/16/95	ND	ND	ND	8.5	ND	ND
04/18/95	ND	ND	ND	ND	ND	ND
10/25/95	ND	ND	ND	ND	ND	ND
01/26/96					-	
04/26/96	ND	ND	ND	ND	ND	ND
08/07/96						
01/30/97	ND	ND	ND	ND	ND	ND

Notes: All results in µg/L (approximately equal to ppb); ND = Not detected above laboratory reporting limits

cont. TABLE 3- DETECTED CONSTITUENTS IN WELL MW-3

Date	Benzene	Ethyl-	Toluene	Xylenes	1,1-	1,2-	MEK	1,1,1-Tri-
		benzene			Dichloro-	Dichloro-		chloro-
					ethane	ethene		ethane
Aug-91	ND	340	24,000	1,900	400	ND	21,000	100
Oct-91	ND	300	20,000	2,000	410	ND	17,000	ND
Nov-91	77	360	55,000	2,700	320	ND	64,000	100
Apr-92	76	350	32,000	5,200	200	ND	37,000	64
Oct-92	ND	270	1,500	1,300	230	94	ND	61
Mar-93	24	130	3,700	NA	67	34	1,400	34
Jun-93	18	530	1,100	1,000	57	ND	1,300	77
Oct-93	30	250	2,300	470	67	ND	300	ND
Feb-94	ND	300	27,000	1,400	ND	ND	ND	ND
Jun-94	ND	ND	16,000	6,100	ND	ND	ND	ND

<sup>\*</sup>A concentration of 59 ppb 1,1,1-trichloroethene was detected during this sampling event

<sup>\*\*</sup>A concentration of 100 ppb 1,1,1-trichloroethene was detected during this sampling event

Date	Benzene	Ethyl-	Toluene	Xylenes	1,1-	1,2-	MEK	1,1,1-Tri-
		benzene			Dichloro-	Dichloro-		chloro-
					ethane	ethene		ethane
01/16/95	40	220	16,000	1,600	60	40	160	21
01/16/95	<1,200	340	20,000	5,000	< 1,200	NA	<25,000	< 1200
04/18/95	13	73	3,900	570	15	<5.0	< 100	14
10/25/95	46	260	9,800	700	22	< 5.0	< 100	160
1/26/96*								
4 vols.	< 250	380	9,900	2,000	< 250	<250	<5,000	< 250
10 vols.	< 120	280	4,400	1,300	< 120	<120	<2,500	< 120
04/26/96	< 5.0	54	2,500	750	< 5.0	< 5.0	< 100	< 5.0
08/07/96	< 5.0	< 5.0	3,400	<15	< 5.0	< 5.0	< 100	< 5.0
01/30/97	< 5.0	220	1,800	410	< 5.0	< 5.0	< 100	< 5.0

Notes: All results in µg/L (approximately equal to ppb)

ND = Not detected above laboratory reporting limits

MEK = 2-Butanone

\*Samples were collected first after 4 and then again after 10 well volumes were purged

Cont. TABLE 3- DETECTED CONSTITUENTS IN WELL MW-4

Granter

Date	Benzene	Ethyl-	Toluene	Xylenes	1,1-	1,2-	MEK	1,1,1-Tri-
		benzene			Dichloro-	Dichloro-		chloro-
					ethane	ethene		ethane
01/16/95	ND	ND	ND	ND	ND	ND	ND	ND
01/16/95	ND	ND	ND	ND	ND	ND	ND	ND
04/18/95	ND	ND	ND	ND	ND	ND	ND	ND
10/30/95	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	< 100	< 5.0
1/26/96	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	< 100	< 5.0
04/26/96	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	< 100	< 5.0
08/07/96	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	< 100	< 5.0
02/14/97	< 5.0	< 5.0	< 5.0	<15.0	< 5.0	< 5.0	< 100	< 5.0

All results in  $\mu g/L$  (approximately equal to ppb)

ND = Not detected above laboratory reporting limits

MEK = 2-Butanone

#### 5.0 DISCUSSION

The samples collected from monitoring wells MW-1, MW-2, and MW-4 did not indicate detectable concentrations of constituents above reporting limits. The sample collected from monitoring well MW-3 indicated detectable concentrations of ethylbenzene, toluene, and xylenes. Concentrations of toluene reported from well MW-3 decreased since the previous sampling event conducted in August 1996. Concentrations of ethylbenzene and xylenes increased since the previous sampling event. However, only the toluene concentration was reported at a concentration above the Regional Water

# BORING LOG

	DIECT NO: 90 - 1083 PROJECT NAME: GIBSON BORING NO: MW1											
4	<u>DCA</u>	710	$\frac{ V }{ V }$	199 E. 12th STREET. OAKLAND			DATE: 08/15/91					
į	EOL	<u> </u>	1.1 A T.1	TELINDARU RUHMKE			PAGE 1 OF 1					
FO O	<u> </u>	111	IG M	ER DEPTH:21 FEET ETHODS:8 OD HOLLOW-STEM AUG	<del></del>		DRILLER: HEW					
110	7	1		- THODS:8 OD HOLLOW-STEM AUG	GEF							
DEPTH	SAMPLE	RECOVERY	BLOWS	DESCRIPTION	nscs	GRAPHIC SYMBOL	WELL CONSTRUCTION					
0- 1- 2-				4 ASPHALT: BASEROCK.								
3-	M₩1 5	- 18	9 20 29	GRAYISH-GREEN. FINE SANDY CLAY: DRY	CL		PVC - CASING NEAT CEMENT					
9- 10- 11- 12- 13-	MW 1 1 0	18	9 12 17	JGRAY MEDIUM SAND: DAMP:			BENTE					
16- 17- 18-	MW1 - 15	18	8 20 25	BROWN FINE_SAND: DRY: GRAY PEBBLY MEDIUM SAND. LOOSE: DRY.	sc	K	2 SAND <sup>2</sup> SAND <sup>2</sup> SASING					
21- 22- 23- 24-	MW 1 - 20	18	17 26 27	DARK GRAY MEDIUM SAND: ODOR: WET.	SC SC							
25— 26— 27— 28— 29— 30—				BROWN CLAY: DRY END OF BORING								
	REMARKS											

MILLER ENVIRONMENTAL COMPANY RICHMOND. CA

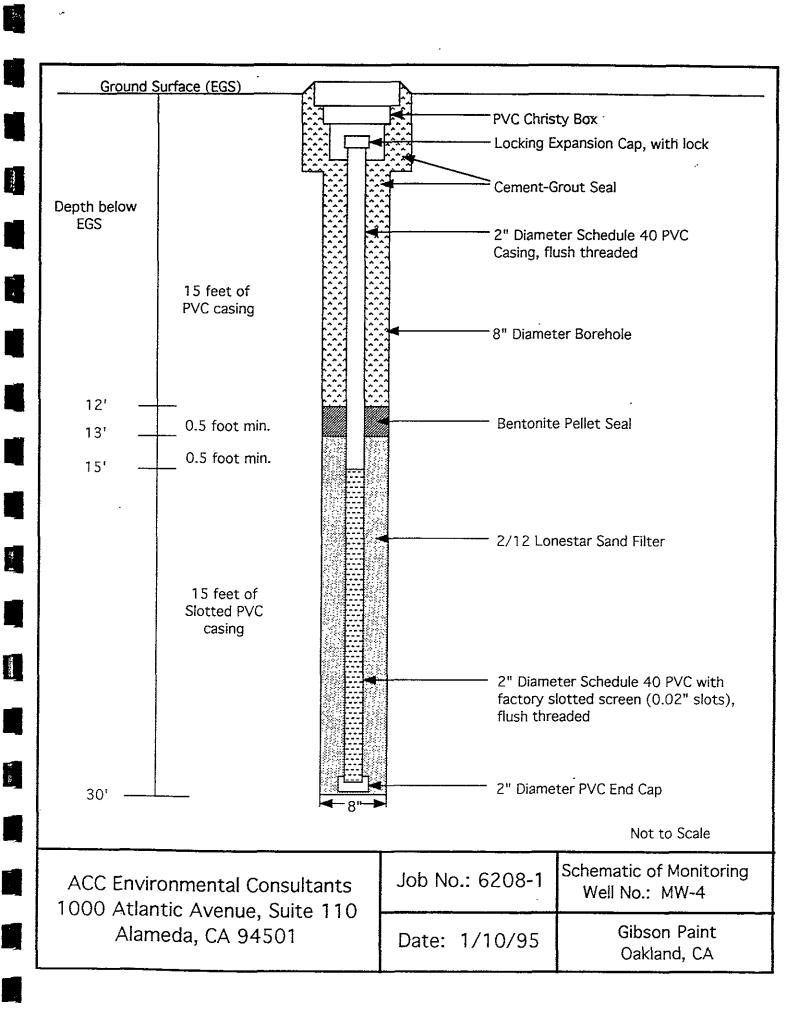
# BORING LOG

	OJECT NO: 90-1083 PROJECT NAME: GIBSON   BORING NO: MW2											
4	OCA.	ĪŌ	V:11	99 E. 12th STREET, OAKLAND		!	BORING NO: MW2 DATE: 08/15/91					
	FOL (	<u> </u>	<u>5   ;  </u> JATE	REINHARD RUHMKE			PAGE 1 OF 1					
GF OF	RILL	IN	G ME	R DEPTH: 18.5 FEET THODS:8 OD HOLLOW-STEM AU	ĠĒĒ	<del></del>	DRILLER: HEW					
HT430	SAMPLE	RECOVERY	BLOWS	DESCRIPTION	WELL CONSTRUCTION							
0-				4 ASPHALT: BASEROCK.								
3 - 4 - 5 - 7 - 8 -	MW2 - 5	18	121918	BROWN GRAVELLY, SANDY, SILTY CLAY; CONTAINS OYSTER SHELLS; STIFF, DRY SLIGHTLY PLASTIC.	CL		PVC — — CASING					
9-	MW 2 - 1 0	18	5 7 14	GRAY SANDY. SILTY CLAY: CACANOID: SHELL FRAGMENTS 			BENT - ON I TE					
13 14 15 16	MW2- 15 MW2-	18 <sup>-</sup>	9 17 35	GRAY-BROWN SILTY CLAY: NO SHELL FRAGMENTS: DRY	sc		2. SLOT PVC CASING					
19 20 21 22	17		10 12 15	GRAY FINE SAND: LOOSE: WET.								
23— 24— 25— 26—				BROWN CLAY: DRY	SC		NATURAL SAND PACK					
27— 28— 29— 30—				END OF BORING								
	REMARKS											
	MILLER ENVIRONMENTAL COMPANY RICHMOND. CA											

# BORING LOG

<u>\$</u>	KOUI	ECT TIO OGI VD IN	N:11 ST:F WATE	:90-1083 PROJECT NAME: GIBS 99 E. 12th STREET. OAKLAND REINHARD RUHMKE R DEPTH:16.5 FEET THODS:8 OD HOLLOW-STEM AU			BORING NO: MW3 DATE: 08/15/91 PAGE 1 OF 1 DRILLER: HEW
DEPTH	SAMPLE	RECOVERY	BLOWS	DESCRIPTION	nscs	GRAPHIC SYMBOL	WELL CONSTRUCTION
6- 7-	MW3 -	18	25 16 17	4 ASPHALT: BASEROCK.	CL		PVC — CASING
11- 12- 13- 14- 15-	MW3- 10 MW2- 15	18	7 15 1-0 7 1-1	GRAY SANDY. SILTY CLAY: DRY			BENT-ONITE  ONITE  SLOT SLOT AS ING
16 17 18 19 20- 21 22 23 24	·		16	GRAY CLAYEY FINE SAND: WET: LOOSE.	sc	C	AS ING NATURAL SAND PACH
25— 26— 27— 28— 29— 30—				BROWN CLAY: DRY END OF BORING.			
				REMARKS	<del></del>		

MILLER ENVIRONMENTAL COMPANY RICHMOND. CA



Г		1	7	1		T	[ O=II==	
	Soil color described using Munsell soil color charts	Blows/foot	HNu (ppm)	I I I I SAMPLE # I	Sample Int.		Equipme Logged PROJEC	Gregg Drilling, B-53 Rig ent: Hollow Stem Auger By: M. Kältreider T: Gibson Paint
	(2.5Y - 6/4)	7 30 40 6 8 15 6 8 14 10	0 0 0 0	MW4-11.5 MW4-16.5 MW4-21.5 MW4-31.5	S N N N N N N N N N N N N N N N N N N N	-4 $-4$ $-12$ $-16$ $-20$ $-24$ $-32$ $-36$ $-40$ $-44$ $-48$ $-52$ $-56$	Asygram Yell Clark Yell Silt modern with Sand Sand Sand Sand Sand Sand Sand Sand	phalt/baserock consisting of silty have with trace clay. Township brown mottled brown yey sand (SC) with 70% sand, the roots, med. dense, very moist. Illowish brown sand (SP) with the test of the silt of the si
,	ACC ENVIRONMENTA 1000 ATLANTIC AV ALAMEDA, C	JE,	SUITE 110		3 NO: 620 ATE: 1/10	<del></del>	Boring MW-4 Gibson Paint 12TH Avenue Oakland, California	

Special section of the section of th

# FIGURE 2 FORMER TANK LOCATIONS

GIBSON PAINT - 1199 E. 12th STREET. OAKLAND 12th STREET SIDEWALK DRIVEWAY AND PARKING BUILDING AVENUE BUILDING LEGEND GIBSON PAINT FORMER TANK LOCATION 2 † } FENCE APPROXIMATE SCALE IN FEET 50 PARKING ENVIRONMENTAL RICHMOND, CA COMPANY 90-