

November 15, 2001

53380.4

Mr. Odili Ojukwu, P.E.
City of Oakland
Public Works Agency
Environmental Services Division
250 Frank H. Ogawa Plaza, Suite 5301
Oakland, California 94612

NOV 29 2001

**Additional Soil and Groundwater Investigation
Housewives Marketplace
801 Clay Street
Oakland, California**

Dear Mr. Ojukwu:

This letter report presents the results of the additional soil and groundwater investigation performed by Harding ESE, Inc. (Harding) at the Housewives Marketplace at 801 Clay Street in Oakland, California (the Site). The City of Oakland (the City) authorized Harding to complete additional soil and groundwater investigation at the Site which included: collecting soil samples from 12 shallow borings, installing and monitoring three groundwater wells, and collecting three off-site groundwater grab samples from perimeter streets. Plate 1 shows the site vicinity and presents the locations of all soil and groundwater samples.

BACKGROUND

The Site is the Oakland city block bounded by 8th and 9th Streets, Jefferson Street and Clay Street and is located in a retail/commercial area within the City of Oakland. Three vacant buildings occupy the site along with a parking lot that currently provides paid parking. Several studies have been conducted at the Site to evaluate past Site uses and potential environmental impacts to soil and groundwater. The *Phase I Environmental Site Assessment Report* prepared by Secor International Inc. (Secor, 1997a), indicated two gasoline service stations at the southwest and northeast corners of the Site and further identified other facilities in the immediate vicinity where chemicals were used over a period of time and where releases to soil and groundwater had occurred. Because of the potential for impacts to soil and groundwater at the Site, the City authorized three subsurface investigations. These investigations are detailed in the following reports:

- *Report of Soil and Groundwater Sampling Results, The Housewives Market and Retail Office Space (Secor, 1997b).*

- *Report of Additional Soil and Groundwater Sampling Results, The Housewives Market and Retail/Office Space (Secor, 1998);*
- *Soil and Groundwater Assessment Report, Housewives Marketplace (Chow, 2000), conducted by Chow Engineering, Inc. (Chow) under contract to Harding ESE.*
- *Risk-Based Corrective Action (RBCA) Evaluation (Harding ESE, April 2001);*
- *Update to the Risk-Based Corrective Action (RBCA) Evaluation (Harding ESE, May 2001)*

The Site is underlain by the Merritt Sand, a yellow brown sand to silty sand, becoming an olive brown sand to silty sand at a depth of about 20 feet. First groundwater is found at a depth of 20 to 25 feet below the ground surface (bgs). The groundwater flow direction is toward the southwest.

Harding ESE's RBCA evaluation concluded that the chemicals detected from the site's soil and groundwater investigation do not pose a significant risk to human health or the environment.

Following the initial site investigation, twelve shallow soil borings were advanced for evaluation of lead concentrations in the shallow soil and three monitoring wells were installed down gradient of the former NE corner UST location for groundwater quality evaluation. In addition, three borings were advanced on 8th and Clay Streets at the perimeter of the site to evaluate the presence of volatile organic compounds in the groundwater offsite. This report presents the results of these activities.

SHALLOW SOIL INVESTIGATION

Harding ESE contracted Precision Sampling, Inc. (Precision) to complete twelve shallow borings at the Site: nine inside the building and three in the parking lot. The soil borings were installed on an equally spaced grid throughout the areas of the site not sampled in previous investigations, as shown on Plate 1. Before drilling, Harding ESE marked the proposed drilling locations and contracted with California Surveys to check these locations for subsurface utilities. Underground Service Alert also checked all boring locations for active utilities.

On May 1, 2001, Precision cored through the concrete and took continuous soil samples to a depth of four feet in stainless steel liners. Harding ESE's field engineer logged the soils, evaluated for the presence of fill materials, and screened the soil samples with a photoionization detector (PID) to monitor for the presence of organic vapors. The field boring logs are presented in Appendix A. Harding ESE collected one soil sample from each boring in a clean laboratory-provided glass jar. Harding ESE collected soil samples of fill and native soil at alternating boring locations. The soil cuttings were placed in 55-gallon drums inside the Housewives Marketplace building pending off-haul to a sanitary landfill or soil recycler. After the drilling was complete, Precision sealed all borings with a neat cement grout. On May 3, 2001, Harding ESE contracted

PLS Surveys, Inc. to provide horizontal and vertical control for the 12 shallow borings and the previous borings that could be recognized in the field. On September 11, 2001, Harding contracted with Phillip Services (PSC) to off-haul the 55-gallon drums with soil cuttings to a non-hazardous waste landfill.

Shallow Soil Analytical Testing

STL Chromalab performed the following lead analyses on the soil samples:

- Total lead by EPA Method 6010 on all soil samples
- Soluble lead by the Waste Extraction Test by EPA method 6010 on the 10 soil samples with the highest total lead concentrations.

In order to gain authorization for off-site disposal of the soil cuttings, STL Chromalab also performed the following analyses on one composite soil sample from the 55-gallon drums:

- Volatile organic compound analysis by EPA Test Method 8260
- Petroleum hydrocarbons analysis by EPA Test Method 8015.

Results of Shallow Soil Testing

The shallow soil borings indicate that the Site is underlain by fill material which extends to 1-2 feet bgs and is underlain by a light brown to brown sand extending to 4 feet bgs.

The chemical data from the soil sampling is presented in Table 1 and Plate 2. The laboratory reports are located in Appendix B. Four of the twelve shallow soil samples contained non-detectable concentrations of total lead below the reporting limit of 5 mg/Kg. The remaining eight contained detectable concentrations of total lead ranging from 5.2 mg/Kg at SB-3 to 400 mg/Kg at SB-10. Seven of the soil samples with the highest total lead concentration were tested for soluble lead. ~~Six of the seven contained concentrations of soluble lead ranging from 4.1 mg/L at SB9 to 19 mg/L at SB-10.~~

GROUNDWATER QUALITY INVESTIGATION

Monitoring Well Installation

In addition to the shallow soil borings, Harding ESE contracted with Precision to install three two-inch groundwater monitoring wells. The wells are located in the parking area and extend approximately 10 feet below the groundwater surface, or to about 35 feet bgs. Harding ESE oversaw all field activities, logged the soil in five-foot intervals, and screened the soil with a PID. Soil samples were collected for lead testing in clean laboratory-provided glass jars. Precision installed two-inch polyvinyl casings (PVC) in the bore holes, backfilled with a fine-grain sand to above the well screen, placed bentonite pellets, and then extended a cement bentonite seal to near

the ground surface. The monitoring wells were completed in a traffic-rated Christy box. Well construction details for monitoring wells MW-1, MW-2, and MW-3 are presented on plates 3, 4, and 5, respectively. Harding ESE placed the soil cuttings in a 55-gallon drum located inside the Housewives Marketplace building pending off-haul to a landfill on September 11, 2001 by PCS.

After allowing the cement to hydrate for at least 24 hours, Harding ESE returned to the Site on May 3, 2001 to develop the wells and collect groundwater samples. The wells were developed by bailing the groundwater until groundwater parameters such as conductivity, pH, and temperature had stabilized. After developing the well, Harding measured the depth to groundwater in each well to 0.01 foot with a Solinist sounder. Harding collected the water samples with a disposable bailer and poured the water into clean, laboratory-provided containers, labeled the samples, and stored them in a chilled cooler for delivery to the lab under chain-of-custody. Harding ESE contained the purge water in 55-gallon drums inside the Housewives Marketplace building pending off-haul to an oil-water recycler on September 11, 2001 by PSC. On May 17, 2001, two weeks after the initial sampling, Harding returned to conduct a second round of groundwater sampling. Harding purged at least three well volumes of water, and used the same sampling procedures, described above, to collect the groundwater samples.

Groundwater Analytical Testing

STL Chromalab performed the following chemical analyses on the first round of groundwater samples collected on May 3, 2001:

- Volatile Organic Compounds (VOCs) by EPA Test Method 8260
- Total Petroleum Hydrocarbon diesel (TPHd) by EPA Test Method 8015
- Total Petroleum Hydrocarbon as gasoline (TPHg) by EPA Test Method 8015
- Total Dissolved Solids (TDS) by EPA Test Method 160.1
- Specific Conductivity (EC) by EPA Test Method 120.1
- pH by EPA Test Method 9040
- Chloride by EPA Test Method by 300 series

The second round of monitoring well sampling, collected on May 17, 2001, included analyses for the drinking water parameters only (TDS, EC, pH, and chloride).

Groundwater Analytical Results

Table 2 presents the water level measurements of the three groundwater monitoring wells. The depth to groundwater was measured on four occasions from May 3 through June 15, 2001.

The analytical results from the groundwater sampling on May 3, 2001 and May 17, 2001 is presented in Table 3 and Plate 3. The laboratory reports are included in Appendix B. The following is a summary of the results.

VOCs and TPH results from May 3, 2001:

- Dichlorofluoromethane (Freon 12) at 0.0022 and 0.0032 milligrams per liter (mg/L) at MW-1 and MW-2, respectively
- Trichloroethene at 0.0025 and 0.15 mg/L at MW-2 and MW-1, respectively
- ~~Methyl ethyl ketone (2-butanone) at 2.4 mg/L at MW-3.~~
- Chloroform at 0.002 mg/L at MW-1
- TPHg at 0.15 mg/L at MW-3

Drinking water parameter results from May 3 and May 17, 2001:

- Chloride was detected between 180 and 239 mg/L on May 3, and between 59 and 90 mg/L on May 17.
- PH ranged from 6.8 to 6.9 on May 3 and was reported at 7.0 at all three wells on May 17.
- TDS was reported between 550 and 920 mg/L on May 3 and between 410 and 540 mg/L on May 17.

EC was measured from 1,200 to 1,400 microsiemens per centimeter ($\mu\text{S}/\text{cm}$) on May 3 and 710 to 950 $\mu\text{S}/\text{cm}$ on May 17.

OFF-SITE GROUNDWATER QUALITY INVESTIGATION

Harding ESE returned to the Site on July 27, 2001 to collect three off-site groundwater samples from 8th and Clay Streets. Prior to drilling, Harding ESE marked the proposed drilling locations and contracted with California Surveys to check these locations for subsurface utilities. Underground Service Alert also checked all boring locations for active utilities. Harding obtained an Excavation Permit from the City to perform work in the public right-of-way. Harding located one boring on 8th Street and two borings on Clay Street as shown on Plate 1. On July 27, 2001 Precision mobilized a geo-probe drill rig for the collection of groundwater samples along Clay and 8th Streets. In three boring attempts on Clay Street, the rig could only penetrate the soils to a depth of 18 feet, and groundwater was not encountered. The rig also met refusal during the 8th Street boring attempt, most likely caused by a brick or concrete layer under the asphalt. On August 17, 2001, Precision mobilized a 25-ton Cone Penetration Test (CPT) rig to penetrate the sands and to collect groundwater samples. The CPT rig could not penetrate the dense sands below 21 feet and no groundwater samples could be collected. At the request of the City, Harding demobilized the CPT rig and mobilized a hollow stem auger drilling rig to complete the groundwater sampling on the same day. Upon reaching groundwater, Precision placed a temporary PVC casing in each boring for groundwater collection. Harding ESE's field engineer collected groundwater samples with a disposable bailer and poured the water into clean, laboratory-provided containers, labeled the samples, and stored them in a chilled cooler for delivery to the lab under chain-of-custody. Harding ESE contained all soil generated from the borings into 55-gallon drums inside the Housewives Marketplace building. After the drilling was complete, Precision removed the temporary PVC casing and sealed all borings with a neat cement grout. On September 11, 2001, PSC off-hauled the soil drums to a sanitary landfill.

Off-Site Groundwater Analytical Testing

STL Chromalab performed the following chemical analyses on the groundwater samples collected from the 8th and Clay Street borings on August 17, 2001:

- VOCs by EPA Test Method 8260
- TPHg by EPA Test Method 8015M
- TPHd by EPA Test Method 8015M

Off-Site Groundwater Analytical Results

Table 4 and Plate 3 present the results of the groundwater samples collected on 8th and Clay Streets on August 17, 2001. The laboratory reports are available in Appendix B. The following is a summary of the results:

- TPHd was detected in all three groundwater grab samples ranging from 120 ug/L (GW-2) to 240 ug/L (GW-1)
- TPHg was reported at 50 ug/L in GW-1
- 1,2-DCA was detected in GW-1 at 1.0 ug/L
- Chloroform was detected in GW-3 at 1.6 ug/L.

CONCLUSIONS AND RECOMMENDATIONS

Soil samples collected in the fill did not contain total lead concentrations that exceed the Preliminary Remediation Goal (PRG) of 400 mg/Kg. However, soluble total lead concentrations do exceed 5 mg/Kg indicating that the fill soil is considered California Hazardous waste. To minimize costs, Harding ESE recommends that the soil be used on-site for fill material of building basements during construction.

Details of the risk-assessment performed on the groundwater results can be found in Harding's *Update to the RBCA Evaluation* dated May 22, 2001. The evaluation demonstrated that the chemicals in groundwater at the Site are not anticipated to pose a threat to human health.

The groundwater samples collected from 8th and Clay Streets did not contain detectable concentrations of TCE. The gasoline concentrations are lower than those detected on-site. Diesel was detected in the street groundwater samples, however, it has not been detected on-site. The chloroform detected on 8th Street at GW-3 is below the concentrations detected on-site at MW-1.

Harding ESE recommends that the Alameda County Health agency approve Site Closure for the Housewives Marketplace given the following:

- A RBCA assessment was conducted which demonstrated that the Site does not pose a significant risk to human health or the environment.

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- Three additional groundwater monitoring wells were installed and sampled. Chemical concentrations from the three wells did not exceed health-based levels, further indicating that the Site does not pose a significant risk to human health or the environment.
- Although aquifer conditions at the Site are suitable for a water supply, the shallow groundwater is not currently used as a source of potable water, and it is unlikely that groundwater at the Site will be used in the future because the Site is located in downtown Oakland which obtains water from EBMUD. Currently, there are no plans to use the shallow groundwater at the site for municipal or domestic purposes.
- Harding ESE has evaluated the groundwater flow direction from the three wells on four occasions and found that the groundwater has a consistent direction to the southwest, as anticipated in the RBCA evaluation.
- The fill material does not extend below four feet at the Site.

CLOSURE

We appreciate this opportunity to be of service to the City of Oakland. If you have any questions, please contact either of the undersigned at (510) 451-1001.

Yours very truly,

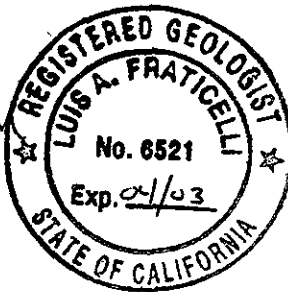
HARDING ESE, Inc.



Trish Eliasson
Staff Engineer



Luis A. Fraticelli, R.G.
Associate Geologist

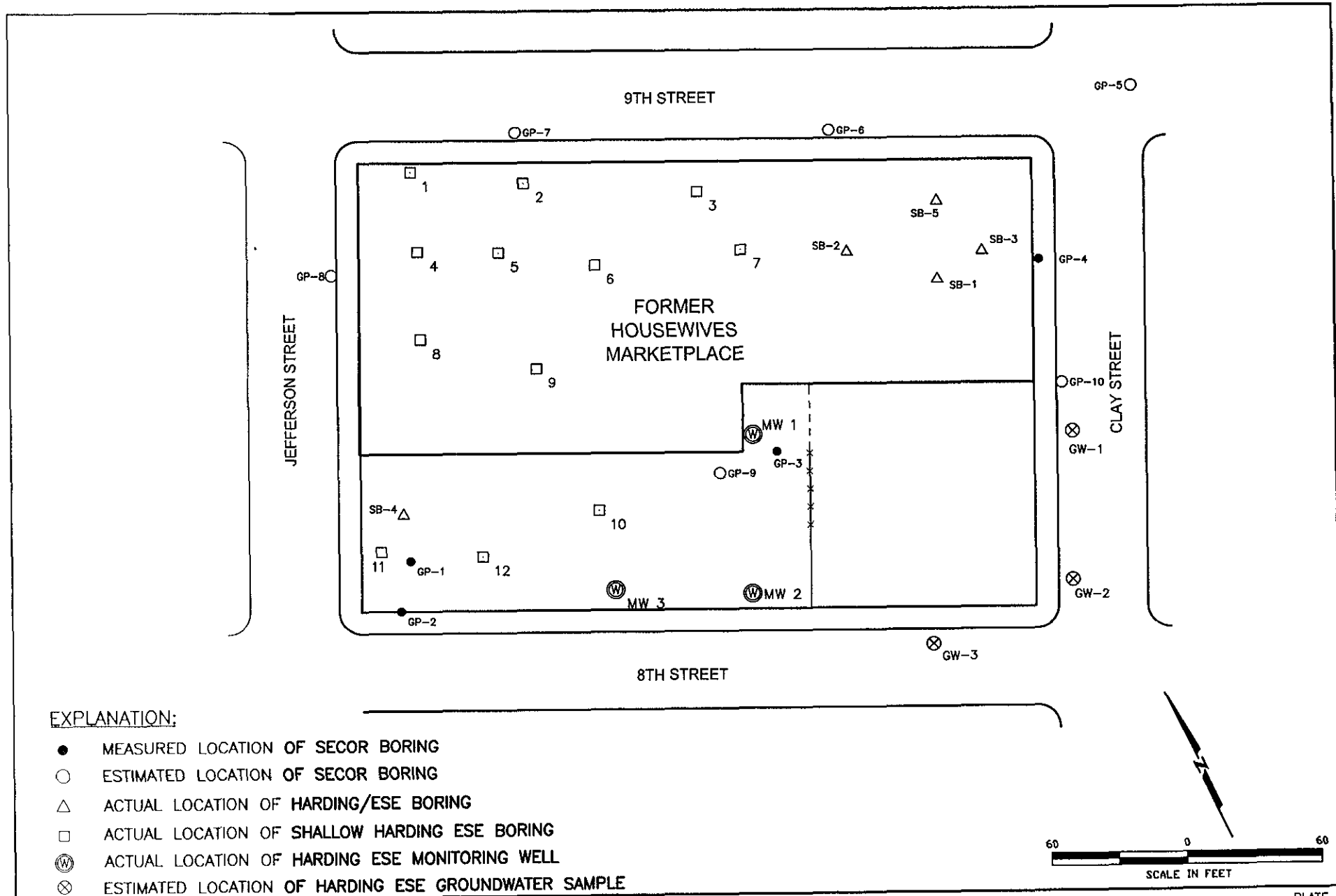


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Attachments: Plate 1 – Site Plan
Plate 2 – May 2001 Lead Concentrations in Soil Borings
Plate 3—Groundwater Sample Concentrations
Plate 4 – Well Construction Details and Log of Boring MW-1
Plate 5 – Well Construction Details and Log of Boring MW-2
Plate 6 – Well Construction Details and Log of Boring MW-3

Table 1 – Total and Soluble Lead Concentrations in Soil
Table 2 – Groundwater Elevation Data
Table 3 – Groundwater Monitoring Well Analytical Results
Table 4 – Groundwater Sample Results at 8th and Clay Streets

Appendix A – Field Logs for Shallow Borings
Appendix B – Laboratory Results and COCs



EXPLANATION:

- MEASURED LOCATION OF SECOR BORING
- ESTIMATED LOCATION OF SECOR BORING
- △ ACTUAL LOCATION OF HARDING/ESE BORING
- ACTUAL LOCATION OF SHALLOW HARDING ESE BORING
- ⊙ ACTUAL LOCATION OF HARDING ESE MONITORING WELL
- ⊗ ESTIMATED LOCATION OF HARDING ESE GROUNDWATER SAMPLE

Site Plan
 Locations of Borings, Samples and Monitoring Wells
 Housewives Marketplace
 801 Clay Street
 Oakland, California

PLATE

1

DRAWN
SS

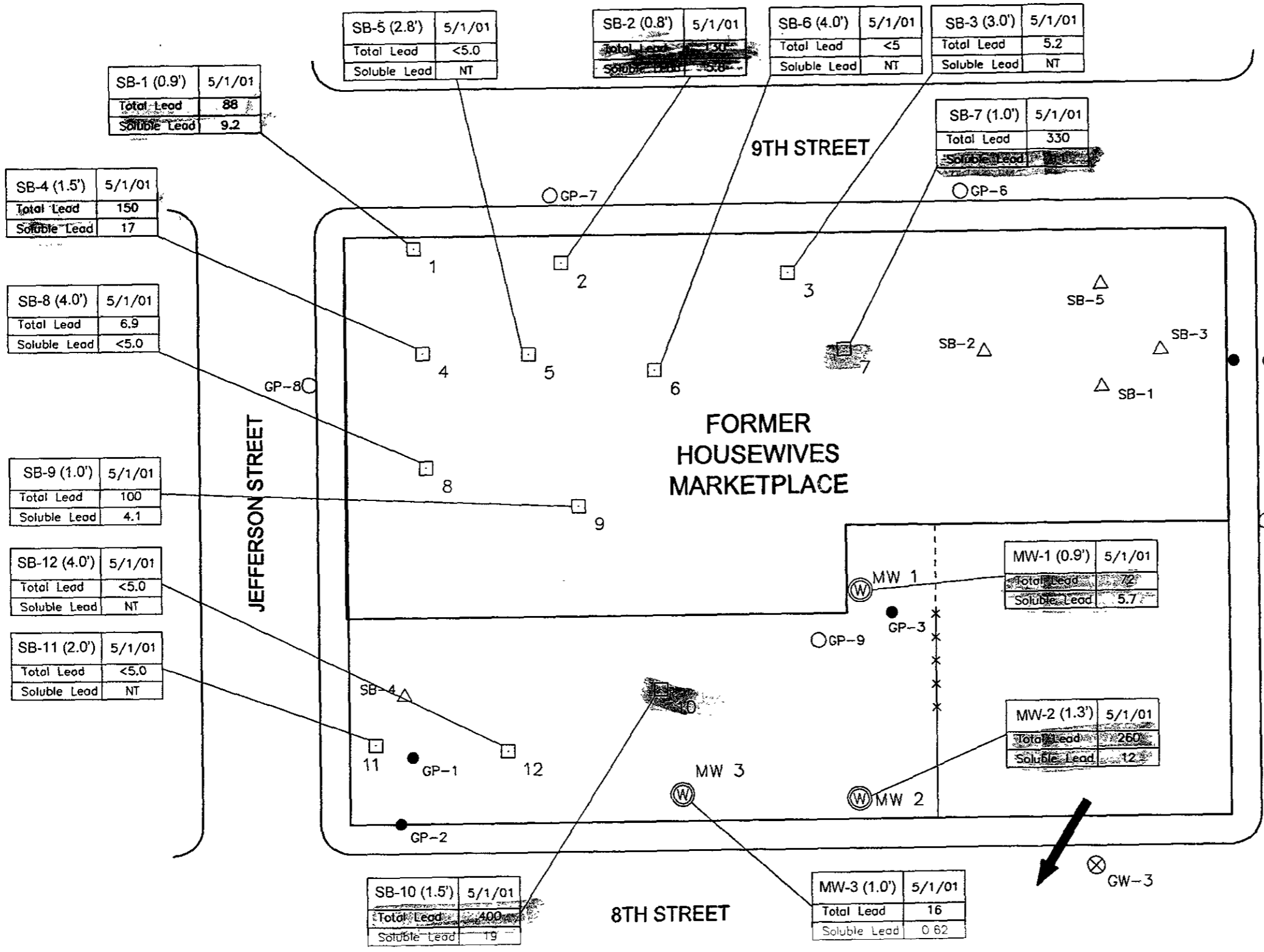
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54023.1

APPROVED

DATE
09/01

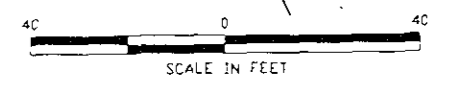
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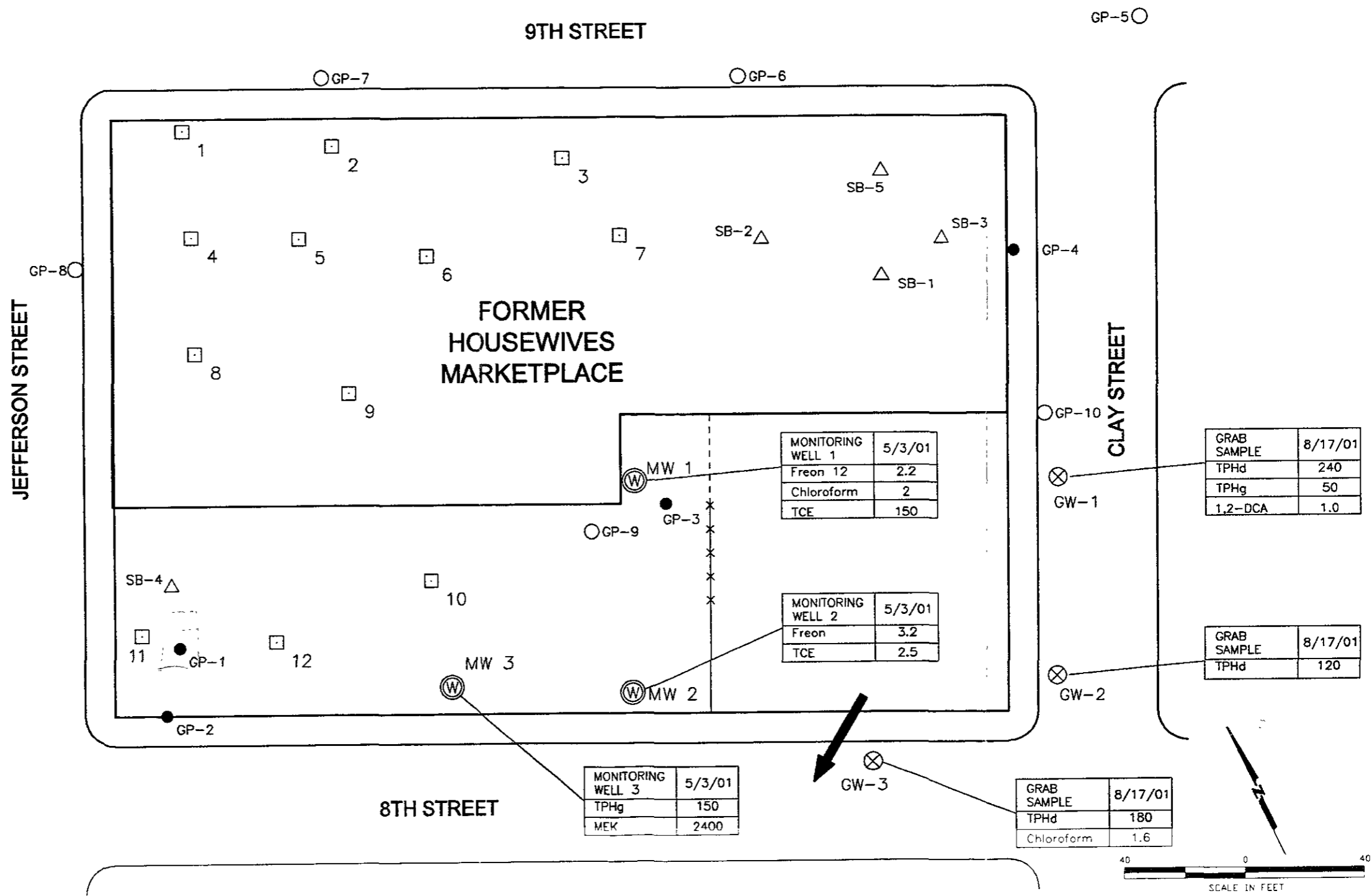
- EXPLANATION:**
- MEASURED LOCATION OF SECOR BORING
 - ESTIMATED LOCATION OF SECOR BORING
 - △ ACTUAL LOCATION OF HARDING/ESE BORING
 - △ ACTUAL LOCATION OF SHALLOW HARDING ESE BORING
 - ACTUAL LOCATION OF HARDING ESE MONITORING WELL
 - ESTIMATED LOCATION OF HARDING ESE GROUNDWATER SAMPLE
 - ⊙ GENERAL GROUNDWATER FLOW DIRECTION
 - ⊗ NOT TESTED
 - NT

ANALYTE		CONCENTRATION	
SB-13 (1.5')	5/1/01	88	(mg/Kg)
Total Lead		9.2	(mg/L)
Soluble Lead			



May 2001 Lead Concentrations
Housewives Marketplace
801 Clay Street
Oakland, California

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
SS	54023 1		09/01	



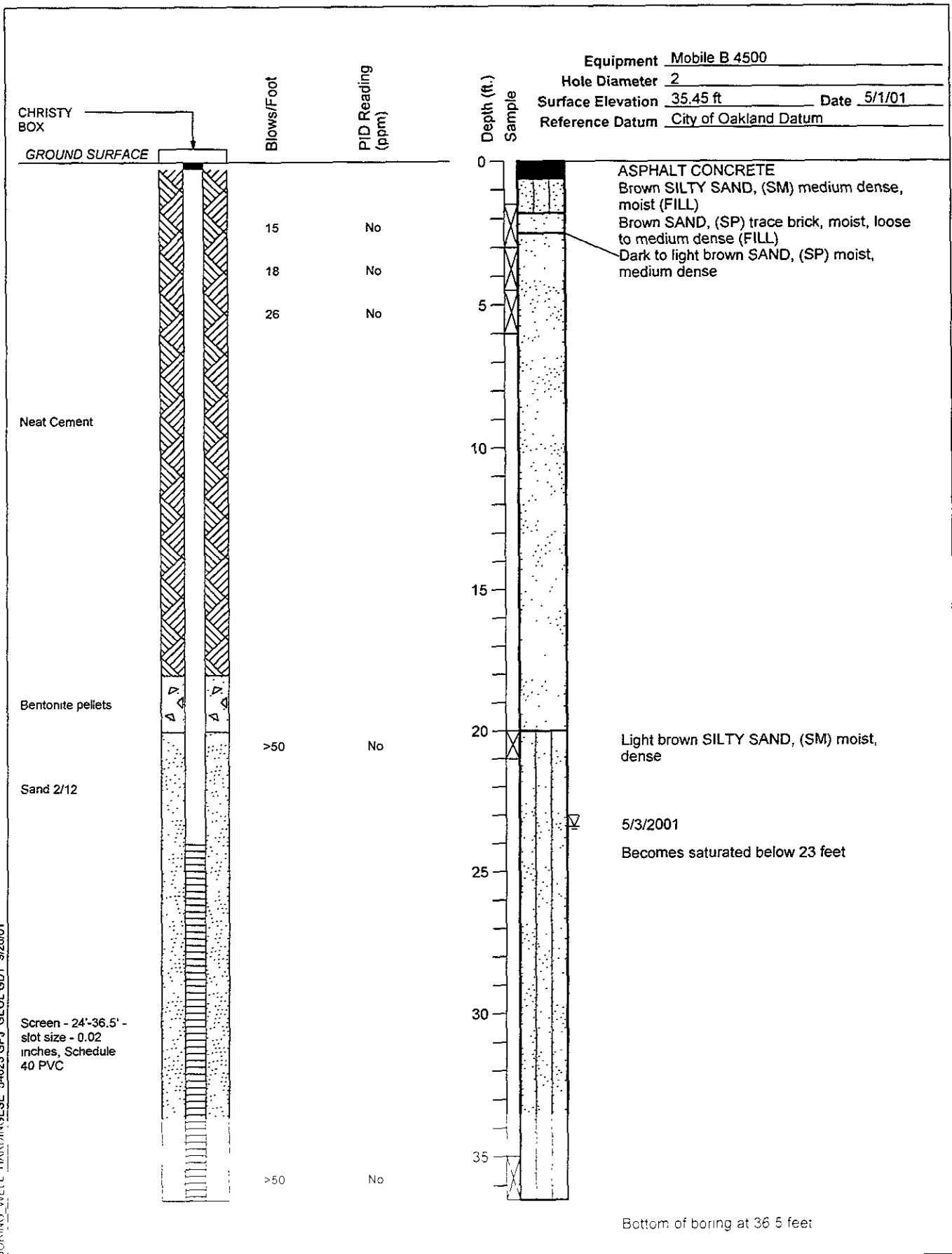
ANALYTE	CONCENTRATION IN µg/L
SHALLOW BORING 1	5/1/01
Total Lead	88
Soluble Lead	9.2



Groundwater Sample Concentrations
Housewives Marketplace
801 Clay Street
Oakland, California

PLATE
3

54023003.DWG
20010926 1331



BORING WELL HARDINGESE 54023 GPJ GEOL GDT 9/26/01



Harding ESE
 A MACTEC COMPANY

Well Construction Details and
 Log of Boring MW-1
 Housewives Marketplace
 801 Clay Street
 Oakland, California

PLATE

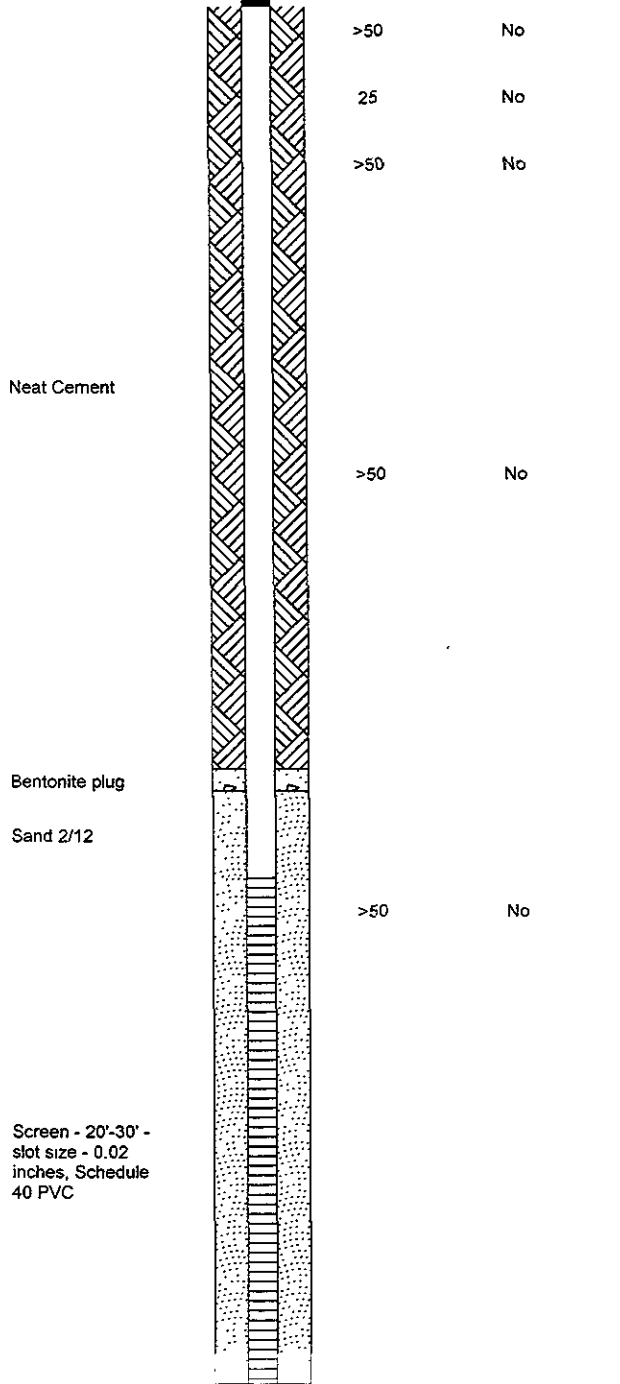
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DRAWN SS	JOB NUMBER 54023	APPROVED	DATE 9/01	REVISED DATE
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CHRISTY BOX

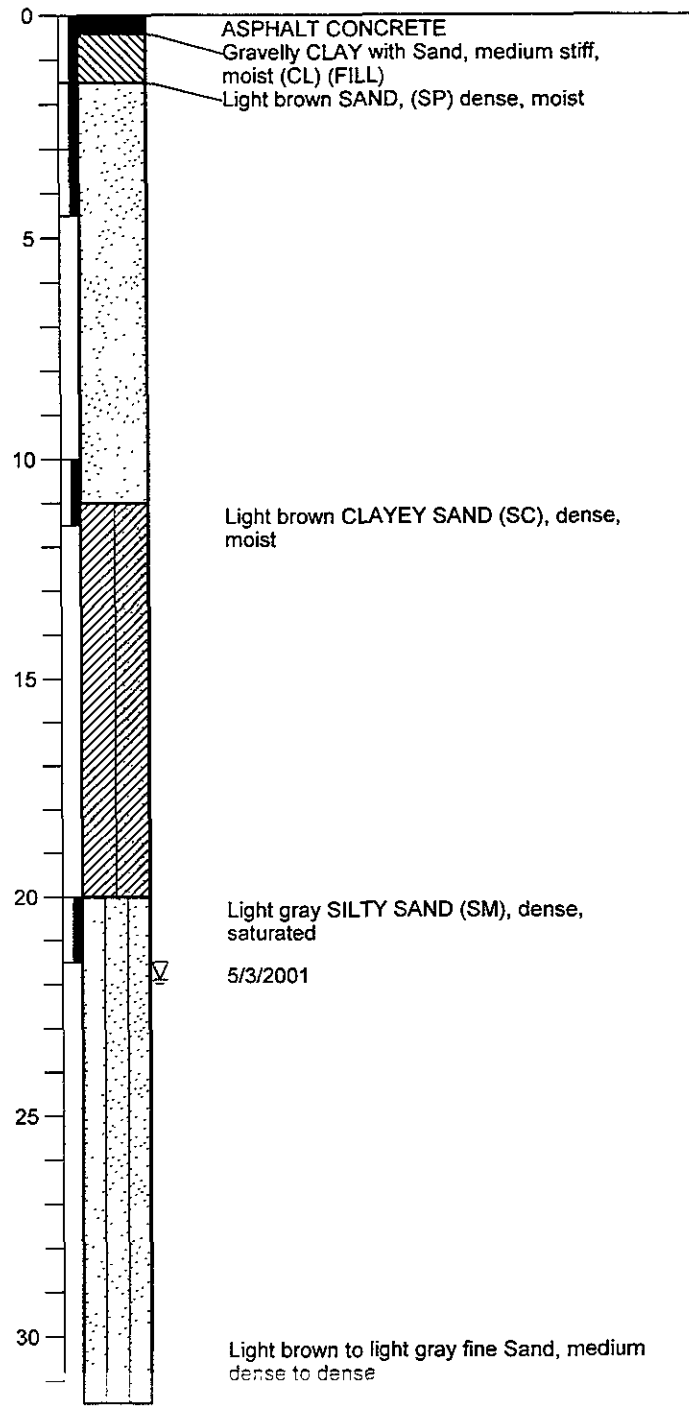
GROUND SURFACE

Blows/Foot
PID Reading (ppm)



Equipment Mobile B 4500
 Hole Diameter 2
 Surface Elevation 33.72 ft Date 5/1/01
 Reference Datum City of Oakland Datum

Depth (ft.)
Sample



Bottom of boring at 31.5 feet

BORING WELL HARDINGESE 54023.GPJ GEOL GDT 9/13/01

Screen - 20'-30' - slot size - 0.02 inches, Schedule 40 PVC



Well Construction Details and Log of Boring MW-2
 Housewives Marketplace
 801 Clay Street
 Oakland California

PLATE

5

DRAWN	JOB NUMBER	APPROVED	DATE	REVISED DATE
SS	54023		9/01	

CHRISTY BOX

GROUND SURFACE

Blows/Foot

PID Reading (ppm)

Depth (ft.)
Sample

Equipment Mobile B 4500

Hole Diameter 2

Surface Elevation 33.41 ft

Date 5/1/01

Reference Datum City of Oakland Datum

Neat cement

Bentonite plug

Sand 2/12

Screen - 20'-30' -
slot size - 0.02
inches, Schedule
40 PVC

17

No

22

No

>50

No

>50

No

>50

No

ASPHALT CONCRETE and Dark brown
SAND (FILL)
Light brown SAND, (SP) dense, moist

Light brown SILTY SAND, dense, moist

5/3/2001

Light brown to gray FINE SAND, dense,
saturated

Bottom of boring at 30 feet

BORING_WELL_HARDINGESE 54023.GPJ GEOL GDT 9/26/01



Harding ESE
A MACTEC COMPANY

Well Construction Details and
Log of Boring MW-3

Housewives Marketplace
601 Clay Street
Oakland California

PLATE

6

DRAWN
SS

JOB NUMBER
54023

APPROVED

DATE
9/01

REVISED DATE

**Table 1: Total and Soluble Lead Concentrations in Soil
Housewives Marketplace
801 Clay Street
Oakland, California**

Sample Location	Sample Depth (feet)	Total Lead Concentration (mg/Kg)	Soluble Total Lead Concentration (STLC) (mg/L)	Fill or Native Soil
SB-1	0.9	88	9.2	Fill
SB-2	0.8	130	5.8	Fill
SB-3	3	5.2	NT	Native
SB-4	1.5	150	17	Fill
SB-5	2.8	<5.0	NT	Native
SB-6	4	<5.0	NT	Native
SB-7	1	330	11	Fill
SB-8	4	6.9	<0.5	Fill
SB-9	1	100	4.1	Fill
SB-10	1.5	400	19	Native
SB-11	2	<5.0	NT	Native
SB-12	4	<5.0	NT	Native
MW-1	0.9	72	5.7	Fill
MW-2	1.3	260	12	Fill
MW-3	1	16	0.62	Fill

Notes:

Soluble lead concentrations greater than 5.0 mg/l indicate that the soil is California hazardous. Disposal at a hazardous waste landfill is typically required.

NT = Not Tested

**Table 2: Groundwater Elevation Data
Housewives Marketplace
801 Clay Street
Oakland, California**

	MW-1		MW-2		MW-3	
TOC Elevation	35.18		33.32		33.41	
	DTGW (ft btoc)	GWSE (ft)	DTGW (ft btoc)	GWSE (ft)	DTGW (ft btoc)	GWSE (ft)
5/3/2001	23.23	11.95	21.59	11.73	21.72	11.69
5/17/2001	23.17	12.01	21.59	11.73	21.7	11.71
6/5/2001	23.18	12	21.62	11.7	21.77	11.64
6/15/2001	23.2	11.98	21.67	11.65	21.82	11.59

Notes:

Wells were surveyed on 5/3/01 by PLS Surveys, Inc.

DTGW = Depth to Ground Water - measured in feet

GWSE = Ground Water Surface Elevation - measured in feet above mean sea level (MSL).

ft btoc = Feet Below Top-of-Casing

TOC = Top-of-Casing - Elevation measured in feet above MSL.

Table 3: Groundwater Monitoring Well Analytical Results
Housewives Marketplace
801 Clay Street
Oakland California

Test Method	Analyte	Well ID Sample Date Units	MW-1		MW-2		MW-3	
			5/3/01	5/17/01	5/3/01	5/17/01	5/3/01	5/17/01
EPA 9056	Chloride	mg/L	180	64	230	90	210	59
9040B	pH	pH units	6.9	7.0	6.8	7.0	6.8	7.0
160.1	TDS	mg/L	920	530	860	540	550	410
120.1	EC	µS/cm	1200	850	1400	950	1200	710
EPA 8015M	Diesel	µg/L	ND(61)	NA	ND(61)	NA	ND(61)	NA
	Motor Oil	µg/L	ND(610)	NA	ND(610)	NA	ND(610)	NA
	Gasoline	µg/L	ND(50)	NA	ND(50)	NA	150	NA
EPA 8260A *	Freon 12	µg/L	2.2	NA	3.2	NA	ND(10)	NA
	MEK	µg/L	ND(1.0)	NA	ND(50)	NA	2400	NA
	Chloroform	µg/L	2.0	NA	ND(1.0)	NA	ND(10)	NA
	TCE	µg/L	150	NA	2.5	NA	ND(10)	NA

Notes:

- EC Specific Conductance.
- ND(61) Not detected above reporting limit shown in parentheses.
- NA Not analyzed per sample schedule.
- * Only detected compounds are shown
- Freon 12 Dichlorodifluoromethane
- MEK 2-Butanone
- TCE Trichloroethene
- mg/L milligrams per liter
- µg/L micrograms per liter
- µS/cm microsiemens per centimeter

**Table 4: Groundwater Samples at 8th Clay Streets
Housewives Marketplace
801 Clay Street
Oakland, California**

Test Method	Analyte	Sample ID:	GW-1	GW-2	GW-3
		Sample Date:	8/17/01	8/17/01	8/17/01
		Units			
EPA 8015M	Diesel	ug/L	240 ¹	120 ¹	180 ¹
	Gasoline	ug/L	50	ND(50)	ND(50)
EPA 8260A *	1,2-DCA	ug/L	1.0	ND(1.0)	ND(1.0)
	Chloroform	ug/L	ND(1.0)	ND(1.0)	1.6

Notes:

- 1 Hydrocarbon does not match the pattern of the laboratory's diesel standard
- 1,2-DCA 1,2-Dichloroethane
- µg/L micrograms per liter
- ND Not detected above the reporting limit shown in parentheses

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING:

PROJECT: <i>Housewives Market</i>		BORING NO. <i>2</i>	
JOB NO.: <i>53380</i>		LOGGED BY: <i>TAE</i>	
PROJ. MGR.: <i>SJD</i>		EDITED BY:	
DRILLING CONTRACTOR:			
DRILL RIG TYPE:			
DRILLERS NAME:			
SAMPLING METHODS:			
HAMMER WT.:		DROP:	
STARTED, TIME:		DATE:	
COMPLETED, TIME:		DATE:	
BORING DEPTH (ft.)			
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			
BACKFILLED, TIME:		DATE:	BY:
SURFACE ELEV.:		DATUM:	
CONDITIONS:			

SAMPLE DEPT. 1/200

SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)			DEPTH IN FEET	GRAPHIC LOG
						<i>no</i>	<i>no</i>	1	
								2	
								3	
								4	
								5	
								6	
								7	
								8	
								9	
								10	

6 inches concrete
Brown gravelly clay with brick

Brown fine sand

Bottom of boring

FIELD LOG OF BORING

LOCATION OF BORING: *Building*

PROJECT: <i>House</i>		BORING NO. <i>1</i>
JOB NO.: <i>53380</i>		TOTAL DEPTH:
PROJ. MGR: <i>SD</i>	LOGGED BY: <i>ETD</i>	
DRILLING CONTRACTOR: <i>Precision</i>		EDITED BY:
DRILL RIG TYPE:		
DRILLERS NAME:		
SAMPLING METHODS:		
HAMMER WT.:	DROP:	
STARTED, TIME:	DATE: <i>5/1/01</i>	
COMPLETED, TIME:	DATE: <i>5/1/01</i>	

- *Concrete Thickness*
- *Soil description*
- *depth of log*
- *where sample collected*

SAMPLE DEPTH	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	DEPTH IN FEET	GRAPHIC LOG
<i>0-1.0'</i>					<i>Sample</i>		<i>0-6"</i>	<i>6-6" concrete</i>
							<i>1</i>	<i>6" - 1.8' dark brown silty sand, trace gravel</i>
							<i>2</i>	<i>1.8' - 4' Brown sand</i>
							<i>3</i>	
							<i>4</i>	
							<i>5</i>	
							<i>6</i>	
							<i>7</i>	
							<i>8</i>	
							<i>9</i>	
							<i>10</i>	

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING: *Building*

PROJECT:		BORING NO. <i>3</i>	
<i>Housewives Market</i>		TOTAL DEPTH: <i>4'</i>	
JOB NO.: <i>53380</i>		LOGGED BY: <i>TAE</i>	
PROJ. MGR.: <i>SJD</i>		EDITED BY:	
DRILLING CONTRACTOR: <i>Precision</i>			
DRILL RIG TYPE:			
DRILLERS NAME:			
SAMPLING METHODS:			
HAMMER WT.:		DROP:	
STARTED, TIME:		DATE:	
COMPLETED, TIME:		DATE:	
BORING DEPTH (ft.)	<i>4'</i>		
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			
BACKFILLED, TIME:		DATE: <i>5/1</i> BY:	
SURFACE ELEV.:		DATUM:	
CONDITIONS:			

SAMPLE DEPTH	SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)				DEPTH IN FEET	GRAPHIC LOG
<i>0-1</i>										<i>1</i>	<p><i>0-1 ft sandy fill material with gravel</i></p> <p><i>1 ft = cement end fill</i></p> <p><i>1 ft → 4' = Merritt sand</i></p>
										<i>2</i>	
										<i>3</i>	
										<i>4</i>	
										<i>5</i>	
										<i>6</i>	
										<i>7</i>	
										<i>8</i>	
										<i>9</i>	
										<i>10</i>	

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING:

PROJECT: <i>Housewives Market</i>		BORING NO. <i>7</i>
JOB NO.: <i>5</i>		TOTAL DEPTH:
PROJ. MGR.: <i>SJO</i>		LOGGED BY: <i>TAE</i>
DRILLING CONTRACTOR: <i>Precision</i>		
DRILL RIG TYPE:		
DRILLERS NAME:		
SAMPLING METHODS: <i>6010</i>		
HAMMER WT.:		DROP:
STARTED, TIME:		DATE:
COMPLETED, TIME:		DATE:
BORING DEPTH (ft.)	<i>4'</i>	

SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (in/r)	<i>GVM</i>	DEPTH IN FEET
							1
							2
							3
							4
							5
							6
							7
							8
							9
							10

CASING DEPTH (ft.)		
WATER DEPTH (ft.)		
TIME:		
DATE:		
BACKFILLED, TIME:	DATE: <i>5/1</i>	BY:
SURFACE ELEV.:	DATUM:	
CONDITIONS:		

6" → 1 ft = fill material - sand with some gravel

1-4 ft Merit sand brown

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING:

PROJECT:

BORING NO. 8

Housavivis Market

TOTAL DEPTH: 4'

JOB NO.: 53380

LOGGED BY: TAE

PROJ. MGR.: SOD

EDITED BY:

DRILLING CONTRACTOR: Precision

DRILL RIG TYPE:

DRILLERS NAME:

SAMPLING METHODS:

HAMMER WT.:

DROP:

STARTED, TIME:

DATE:

COMPLETED, TIME:

DATE:

BORING DEPTH (ft.)

4'

CASING DEPTH (ft.)

WATER DEPTH (ft.)

TIME:

DATE:

BACKFILLED, TIME:

DATE:

BY:

SURFACE ELEV.:

DATUM:

CONDITIONS:

SAMPLE DEPTH	1010	SAMPLER TYPE	BLOWS/6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	DEPTH IN FEET
4'							0	1
							0	2
							0	3
							0	4
								5
								6
								7
								8
								9
								10

GRAPHIC LOG

5-6" core

1-2' sandy fill, trace of gravel

3.5' brick, fill ends

3.5' → 4' Merritt sand, flecks of red (brick?) throughout

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING:

PROJECT:

BORING NO. 5

Housewines Market

TOTAL DEPTH: 4'

JOB NO.: 53380

LOGGED BY:

PROJ. MGR.: SJD

EDITED BY:

DRILLING CONTRACTOR: precision

DRILL RIG TYPE:

DRILLERS NAME: R. Marcos

SAMPLING METHODS: Geoprobe

HAMMER WT.:

DROP:

STARTED, TIME:

DATE:

COMPLETED, TIME: 1230

DATE: 5/1/2001

BORING DEPTH (ft.)

CASING DEPTH (ft.)

WATER DEPTH (ft.)

TIME:

DATE:

BACKFILLED, TIME:

DATE:

BY:

SURFACE ELEV.:

DATUM:

CONDITIONS:

SAMPLE DEPT. 12/5

SAMPLER TYPE

BLOWS / 6-IN.

INCHES DRIVEN

INCHES RECOVERED

SAMPLE CONDITION

DRILLING RATE (min/H)

DEPTH IN FEET

GRAPHIC LOG

no no

28

concrete core

light brown medium sand

Bottom of bore

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING: *Building*

PROJECT: <i>Housewives Marketplace</i>		BORING NO. <i>6</i>	
JOB NO.: <i>53380</i>		TOTAL DEPTH: <i>4'</i>	
PROJ. MGR: <i>SJO</i>		LOGGED BY: <i>TAE</i>	
DRILLING CONTRACTOR: <i>Precision</i>		EDITED BY:	
DRILL RIG TYPE:			
DRILLERS NAME:			
SAMPLING METHODS:			
HAMMER WT.:		DROP:	
STARTED, TIME:		DATE:	
COMPLETED, TIME:		DATE:	
BORING DEPTH (ft.)	<i>4'</i>		
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			
BACKFILLED, TIME:		DATE: <i>5/1</i>	BY:
SURFACE ELEV.:		DATUM:	
CONDITIONS:			

SAMPLE DEPTH @1055	SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	DEPTH IN FEET	GRAPHIC LOG
<i>4'</i>							1	<i>0-1 ft = fill, sand w/ gravel</i>
							2	<i>1-1.5 ft = fill sand</i>
							3	<i>FILL STOPS</i>
							4	<i>1.5-4 ft = Merritt sand, brown</i>
							5	
							6	
							7	
							8	
							9	
							10	

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING: *Parking lot*

PROJECT: <i>Housewives Market</i>		BORING NO. <i>10</i>
JOB NO.: <i>53380</i>		TOTAL DEPTH: <i>4'</i>
PROJ. MGR.: <i>550</i>	LOGGED BY: <i>TAE</i>	
EDITED BY:		
DRILLING CONTRACTOR: <i>Precision</i>		
DRILL RIG TYPE:		
DRILLERS NAME:		
SAMPLING METHODS:		
HAMMER WT.:	DROP:	
STARTED, TIME:	DATE:	
COMPLETED, TIME:	DATE:	

SAMPLE DEPTH <i>870</i>	SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	<i>0 VM</i>	DEPTH IN FEET
<i>1.5</i>						<i>0.8</i>		1
						<i>0.3</i>		2
								3
								4
								5
								6
								7
								8
								9
								10

BORING DEPTH (ft.)	<i>4'</i>		
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			
BACKFILLED, TIME: <i>820</i>	DATE: <i>5/1</i>	BY:	
SURFACE ELEV.:	DATUM:		
CONDITIONS:			
<i>Fill Mat 0-1.5'</i>			
<i>Fill 0-8"</i>			
<i>Sandy clay -> 1.5'</i>			
<i>Merritt sand, fine sand, brown</i>			
<i>1.5-4'</i>			

FIELD LOG OF BORING

SHEET _____ OF _____

LOCATION OF BORING: *Parking Lot*

PROJECT: <i>Housewives Market</i>		BORING NO. <i>11</i>
JOB NO.: <i>53380</i>		TOTAL DEPTH: <i>4'</i>
PROJ. MGR.: <i>SJD</i>	LOGGED BY: <i>TAE</i>	
EDITED BY:		
DRILLING CONTRACTOR: <i>Precision</i>		
DRILL RIG TYPE:		
DRILLERS NAME:		
SAMPLING METHODS: <i>6010</i>		
HAMMER WT.:	DROP:	
STARTED, TIME: <i>0845</i>	DATE:	
COMPLETED, TIME:	DATE:	
BORING DEPTH (ft.)	<i>4'</i>	

SAMPLE DEPTH *0705*

SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/ft)	DEPTH IN FEET
						1
						2
						3
						4
						5
						6
						7
						8
						9
						10

GRAPHIC LOG

CASING DEPTH (ft.)	
WATER DEPTH (ft.)	
TIME:	
DATE:	
BACKFILLED, TIME:	DATE: <i>5/1</i> BY:
SURFACE ELEV.:	DATUM:
CONDITIONS:	

0-8" = Asphalt Fill
9"-1' = clayey fill gravel
1-1.5 = sandy fill dark brown
1.5-2'8" = Merritt sand brown
2'8"-4' = Merritt sand brown

FIELD LOG OF BORING

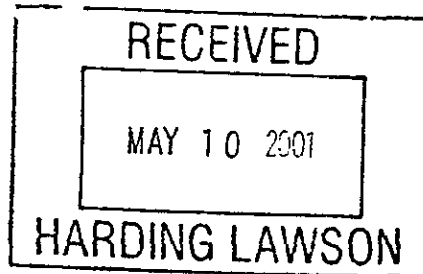
SHEET _____ OF _____

LOCATION OF BORING:

PROJECT: Housewives Market		BORING NO. 12
JOB NO.: 53380		TOTAL DEPTH: 4'
PROJ. MGR.: SSO	LOGGED BY: TAE	
DRILLING CONTRACTOR: Precision		EDITED BY:
DRILL RIG TYPE:		
DRILLERS NAME:		
SAMPLING METHODS: 6010		
HAMMER WT.:	DROP:	
STARTED, TIME:	DATE:	
COMPLETED, TIME:	DATE:	

SAMPLE DEPTH	SAMPLER TYPE	BLOWS / 6-IN.	INCHES DRIVEN	INCHES RECOVERED	SAMPLE CONDITION	DRILLING RATE (min/H)	DEPTH IN FEET	GRAPHIC LOG
						0 VM		
						0	8"	Fill asphalt
						0		gravelly clay fill
								Fill stops
							2	sand (dk brown)
							3	
						0	4	Merritt sand brown
							5	
							6	
							7	
							8	
							9	
							10	

BORING DEPTH (ft.)			
CASING DEPTH (ft.)			
WATER DEPTH (ft.)			
TIME:			
DATE:			
BACKFILLED, TIME: 0850 DATE: 5/1 BY:			
SURFACE ELEV.:		DATUM:	
CONDITIONS:			



Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

Project: 53380
Housewives Marketplace

Dear Mr. Osborne,

Attached is our report for your samples received on Wednesday May 2, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after June 16, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,

A handwritten signature in cursive script that reads "Surinder Sidhu".

Surinder Sidhu

Volatile Organic Compounds by 8260A

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-C	Soil	05/01/2001 15:00	16

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: SB-C	Lab Sample ID: 2001-05-0024-016
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 15:00	Extracted: 05/02/2001 20:58
Matrix: Soil	QC-Batch: 2001/05/02-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/Kg	1.00	05/02/2001 20:58	
Benzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Bromodichloromethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Bromoform	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Bromomethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Carbon tetrachloride	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Chlorobenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Chloroethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
2-Butanone(MEK)	ND	50	ug/Kg	1.00	05/02/2001 20:58	
2-Chloroethylvinyl ether	ND	50	ug/Kg	1.00	05/02/2001 20:58	
Chloroform	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Chloromethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Dibromochloromethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	1.00	05/02/2001 20:58	
1,2-Dibromoethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Dibromomethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Dichlorodifluoromethane	ND	10	ug/Kg	1.00	05/02/2001 20:58	
1,1-Dichloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,2-Dichloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,1-Dichloroethene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,2-Dichloropropane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Ethylbenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
2-Hexanone	ND	50	ug/Kg	1.00	05/02/2001 20:58	
Methylene chloride	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	1.00	05/02/2001 20:58	
Naphthalene	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Styrene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Tetrachloroethene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**

Test Method: 8260A

Attn.: Stephen Osborne

Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: SB-C	Lab Sample ID: 2001-05-0024-016
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 15:00	Extracted: 05/02/2001 20:58
Matrix: Soil	QC-Batch: 2001/05/02-01.09

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Toluene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Trichloroethene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Vinyl acetate	ND	50	ug/Kg	1.00	05/02/2001 20:58	
Vinyl chloride	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Total xylenes	ND	10	ug/Kg	1.00	05/02/2001 20:58	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Carbon disulfide	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Isopropylbenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Bromobenzene	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Bromochloromethane	ND	20	ug/Kg	1.00	05/02/2001 20:58	
Trichlorofluoromethane	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
MTBE	ND	5.0	ug/Kg	1.00	05/02/2001 20:58	
Surrogate(s)						
4-Bromofluorobenzene	92.3	74-121	%	1.00	05/02/2001 20:58	
1,2-Dichloroethane-d4	113.5	70-121	%	1.00	05/02/2001 20:58	
Toluene-d8	94.5	81-117	%	1.00	05/02/2001 20:58	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Soil	QC Batch # 2001/05/02-01.09
MB: 2001/05/02-01.09-006		Date Extracted: 05/02/2001 18:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/Kg	05/02/2001 18:23	
Benzene	ND	5.0	ug/Kg	05/02/2001 18:23	
Bromodichloromethane	ND	5.0	ug/Kg	05/02/2001 18:23	
Bromoform	ND	5.0	ug/Kg	05/02/2001 18:23	
Bromomethane	ND	10.0	ug/Kg	05/02/2001 18:23	
Carbon tetrachloride	ND	5.0	ug/Kg	05/02/2001 18:23	
Chlorobenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
Chloroethane	ND	10	ug/Kg	05/02/2001 18:23	
2-Butanone(MEK)	ND	50	ug/Kg	05/02/2001 18:23	
2-Chloroethylvinyl ether	ND	50	ug/Kg	05/02/2001 18:23	
Chloroform	ND	5.0	ug/Kg	05/02/2001 18:23	
Chloromethane	ND	10	ug/Kg	05/02/2001 18:23	
Dibromochloromethane	ND	5.0	ug/Kg	05/02/2001 18:23	
1,2-Dichlorobenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,3-Dichlorobenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,4-Dichlorobenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,2-Dibromo-3-chloropropane	ND	50	ug/Kg	05/02/2001 18:23	
1,2-Dibromoethane	ND	10	ug/Kg	05/02/2001 18:23	
Dibromomethane	ND	10	ug/Kg	05/02/2001 18:23	
Dichlorodifluoromethane	ND	10	ug/Kg	05/02/2001 18:23	
1,1-Dichloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
1,2-Dichloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
1,1-Dichloroethene	ND	5.0	ug/Kg	05/02/2001 18:23	
cis-1,2-Dichloroethene	ND	5.0	ug/Kg	05/02/2001 18:23	
trans-1,2-Dichloroethene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,2-Dichloropropane	ND	5.0	ug/Kg	05/02/2001 18:23	
cis-1,3-Dichloropropene	ND	5.0	ug/Kg	05/02/2001 18:23	
trans-1,3-Dichloropropene	ND	5.0	ug/Kg	05/02/2001 18:23	
Ethylbenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
2-Hexanone	ND	50	ug/Kg	05/02/2001 18:23	
Methylene chloride	ND	5.0	ug/Kg	05/02/2001 18:23	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/Kg	05/02/2001 18:23	
Naphthalene	ND	10	ug/Kg	05/02/2001 18:23	
Styrene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,1,2,2-Tetrachloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
Tetrachloroethene	ND	5.0	ug/Kg	05/02/2001 18:23	
Toluene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,1,1-Trichloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
1,1,2-Trichloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
Trichloroethene	ND	5.0	ug/Kg	05/02/2001 18:23	
1,1,1,2-Tetrachloroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
Vinyl acetate	ND	50	ug/Kg	05/02/2001 18:23	
Vinyl chloride	ND	5.0	ug/Kg	05/02/2001 18:23	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Soil	QC Batch # 2001/05/02-01.09
MB: 2001/05/02-01.09-006		Date Extracted: 05/02/2001 18:23

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Total xylenes	ND	10	ug/Kg	05/02/2001 18:23	
Trichlorotrifluoroethane	ND	5.0	ug/Kg	05/02/2001 18:23	
Carbon disulfide	ND	5.0	ug/Kg	05/02/2001 18:23	
Isopropylbenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
Bromobenzene	ND	5.0	ug/Kg	05/02/2001 18:23	
Bromochloromethane	ND	20	ug/Kg	05/02/2001 18:23	
Trichlorofluoromethane	ND	5.0	ug/Kg	05/02/2001 18:23	
MTBE	ND	5.0	ug/Kg	05/02/2001 18:23	
Surrogate(s)					
4-Bromofluorobenzene	85.1	74-121	%	05/02/2001 18:23	
1,2-Dichloroethane-d4	100.0	70-121	%	05/02/2001 18:23	
Toluene-d8	98.0	81-117	%	05/02/2001 18:23	

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report

Volatile Organic Compounds by 8260A

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2001/05/02-01.09	
LCS:	2001/05/02-01.09-004	Extracted:	05/02/2001 17:30	Analyzed	05/02/2001 17:30
LCSD:	2001/05/02-01.09-007	Extracted:	05/02/2001 18:49	Analyzed	05/02/2001 18:49

Compound	Conc. [ug/Kg]		Exp.Conc. [ug/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Benzene	110	93.5	100.0	100.0	110.0	93.5	16.2	69-129	20		
Chlorobenzene	102	83.5	100.0	100.0	102.0	83.5	19.9	61-121	20		
1,1-Dichloroethene	85.1	83.1	100.0	100.0	85.1	83.1	2.4	65-125	20		
Toluene	111	96.5	100.0	100.0	111.0	96.5	14.0	70-130	20		
Trichloroethene	102	97.8	100.0	100.0	102.0	97.8	4.2	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	509	472	500	500	101.8	94.4		74-121			
1,2-Dichloroethane-d4	556	533	500	500	111.2	106.6		70-121			
Toluene-d8	522	479	500	500	104.4	95.8		81-117			

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report

Volatile Organic Compounds by 8260A

Matrix Spike (MS / MSD)	Soil	QC Batch # 2001/05/02-01.09
Sample ID: SB-C		Lab Sample ID: 2001-05-0024-016
MS: 2001/05/02-01.09-013	Extracted: 05/02/2001 21:24	Analyzed: 05/02/2001 21:24 Dilution: 1.0
MSD: 2001/05/02-01.09-014	Extracted: 05/02/2001 21:50	Analyzed: 05/02/2001 21:50 Dilution: 1.0

Compound	Conc. [ug/Kg]			Exp.Conc. [ug/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Benzene	95.2	88.8	ND	98.4	97.5	96.7	91.1	6.0	69-129	20		
Chlorobenzene	89.6	85.0	ND	98.4	97.5	91.1	87.2	4.4	61-121	20		
1,1-Dichloroethene	94.3	84.2	ND	98.4	97.5	95.8	86.4	10.3	65-125	20		
Toluene	100	92.1	ND	98.4	97.5	101.6	94.5	7.2	70-130	20		
Trichloroethene	97.6	88.7	ND	98.4	97.5	99.2	91.0	8.6	74-134	20		
Surrogate(s)												
4-Bromofluorobenzene	101.3	96.8		500	500	101.3	96.8		74-121			
1,2-Dichloroethane-d4	114.6	111.3		500	500	114.6	111.3		70-121			
Toluene-d8	97.6	94.8		500	500	97.6	94.8		81-117			

Gas/BTEX Compounds by 8015M/8020

Harding Lawson Assoc -Oakland

☒ 383 Fourth Street, Third Floor
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 53380

Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-C	Soil	05/01/2001 15:00	16

To: **Harding Lawson Assoc -Oakland**

Test Method: 8020
8015M

Attn.: Stephen Osborne

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8020

Sample ID: SB-C	Lab Sample ID: 2001-05-0024-016
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 15:00	Extracted: 05/03/2001 15:54
Matrix: Soil	QC-Batch: 2001/05/03-01.04

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	1.00	05/03/2001 15:54	
Surrogate(s) Trifluorotoluene-FID	58.8	53-125	%	1.00	05/03/2001 15:54	

To: Harding Lawson Assoc -Oakland

Test Method: 8015M
8020

Attn.: Stephen Osborne

Prep Method: 5030

Batch QC Report
Gas/BTEX Compounds by 8015M/8020

Method Blank	Soil	QC Batch # 2001/05/03-01.04
MB: 2001/05/03-01.04-003		Date Extracted: 05/03/2001 08:10

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	1.0	mg/Kg	05/03/2001 08:10	
Surrogate(s) 4-Bromofluorobenzene-FID	110.6	58-124	%	05/03/2001 08:10	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M
8020

Attn: Stephen Osborne

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8020

Laboratory Control Spike (LCS/LCSD)		Soil		QC Batch # 2001/05/03-01.04	
LCS:	2001/05/03-01.04-006	Extracted:	05/03/2001 09:34	Analyzed	05/03/2001 09:34
LCSD:	2001/05/03-01.04-007	Extracted:	05/03/2001 10:02	Analyzed	05/03/2001 10:02

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	0.516	0.482	0.500	0.500	103.2	96.4	6.8	75-125	35		
Surrogate(s)											
4-Bromofluorobenzene-FI	596	563	500	500	119.2	112.6		58-124			

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M
8020

Attn.: Stephen Osborne

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8020

Matrix Spike (MS / MSD)	Soil	QC Batch # 2001/05/03-01.04
Sample ID: SB-C		Lab Sample ID: 2001-05-0024-016
MS: 2001/05/03-01.04-023	Extracted: 05/03/2001 18:15	Analyzed: 05/03/2001 18:15 Dilution: 1.0
MSD: 2001/05/03-01.04-024	Extracted: 05/03/2001 18:43	Analyzed: 05/03/2001 18:43 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp.Conc. [mg/Kg]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD		Recovery	RPD	MS	MSD
Gasoline	0.297	0.230	ND	0.475	0.474	62.5	48.5	25.2	65-135	35	mso	mso
Surrogate(s)												
Trifluorotoluene-FID	338	271		500	500	67.6	54.2		53-125			

Total Lead by AA

Harding Lawson Assoc -Oakland	<input checked="" type="checkbox"/> 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-10	Soil	05/01/2001 08:10	1
SB-12	Soil	05/01/2001 08:40	2
SB-11	Soil	05/01/2001 09:05	3
SB-8	Soil	05/01/2001 10:10	4
SB-9	Soil	05/01/2001 10:40	5
SB-6	Soil	05/01/2001 10:55	6
SB-7	Soil	05/01/2001 11:15	7
SB-3	Soil	05/01/2001 11:45	8
SB-2	Soil	05/01/2001 12:00	9
SB-5	Soil	05/01/2001 12:15	10
MW-1	Soil	05/01/2001 08:15	11
MW-2	Soil	05/01/2001 11:35	12
SB-1	Soil	05/01/2001 13:30	13
SB-4	Soil	05/01/2001 13:50	14
MW-3	Soil	05/01/2001 14:00	15

To: **Harding Lawson Assoc -Oakland**

Attn.: Stephen Osborne

Test Method: 7420

Prep Method: 3050B

Total Lead by AA

Sample ID: SB-10	Lab Sample ID: 2001-05-0024-001
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 08:10	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	400	5.0	mg/Kg	1.00	05/04/2001 10:10	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**

Test Method: 7420

Attn.: Stephen Osborne

Prep Method: 3050B

Total Lead by AA

Sample ID: SB-12	Lab Sample ID: 2001-05-0024-002
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 08:40	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	05/04/2001 10:12	

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Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-11	Lab Sample ID: 2001-05-0024-003
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 09:05	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	05/04/2001 10:12	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 7420
 Prep Method: 3050B

Total Lead by AA

Sample ID: SB-8	Lab Sample ID: 2001-05-0024-004
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 10:10	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	6.9	5.0	mg/Kg	1.00	05/04/2001 10:12	

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Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-9	Lab Sample ID: 2001-05-0024-005
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 10:40	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	100	5.0	mg/Kg	1.00	05/04/2001 10:13	

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Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-6	Lab Sample ID: 2001-05-0024-006
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 10:55	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	05/04/2001 10:14	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-7	Lab Sample ID: 2001-05-0024-007
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 11:15	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	330	5.0	mg/Kg	1.00	05/04/2001 10:15	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-3	Lab Sample ID: 2001-05-0024-008
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 11:45	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.2	5.0	mg/Kg	1.00	05/04/2001 10:15	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-2	Lab Sample ID: 2001-05-0024-009
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 12:00	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	130	5.0	mg/Kg	1.00	05/04/2001 10:15	

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Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-5	Lab Sample ID: 2001-05-0024-010
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 12:15	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	05/04/2001 10:16	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: MW-1	Lab Sample ID: 2001-05-0024-011
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 08:15	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	72	5.0	mg/Kg	1.00	05/04/2001 10:16	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**

Test Method: 7420

Attn.: Stephen Osborne

Prep Method: 3050B

Total Lead by AA

Sample ID: MW-2	Lab Sample ID: 2001-05-0024-012
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 11:35	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	260	5.0	mg/Kg	1.00	05/04/2001 10:17	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-1	Lab Sample ID: 2001-05-0024-013
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 13:30	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	88	5.0	mg/Kg	1.00	05/04/2001 10:17	

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STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**

Test Method: 7420

Attn.: Stephen Osborne

Prep Method: 3050B

Total Lead by AA

Sample ID: SB-4	Lab Sample ID: 2001-05-0024-014
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 13:50	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	150	5.0	mg/Kg	1.00	05/04/2001 10:18	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: MW-3	Lab Sample ID: 2001-05-0024-015
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 14:00	Extracted: 05/04/2001 06:53
Matrix: Soil	QC-Batch: 2001/05/04-01.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	16	5.0	mg/Kg	1.00	05/04/2001 10:18	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Batch QC Report
Total Lead by AA

Method Blank	Soil	QC Batch # 2001/05/04-01.17
MB: 2001/05/04-01.17-010		Date Extracted: 05/04/2001 06:53

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	5	mg/Kg	05/04/2001 10:09	

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 7420
 Prep Method: 3050B

Batch QC Report

Total Lead by AA

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/04-01.17
LCS: 2001/05/04-01.17-011	Extracted: 05/04/2001 06:53	Analyzed 05/04/2001 10:10
LCSD: 2001/05/04-01.17-012	Extracted: 05/04/2001 06:53	Analyzed 05/04/2001 10:10

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Lead	259	260	250	250	103.6	104.0	0.4	85-115	20		

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 7420
 Prep Method: 3050B

Batch QC Report

Total Lead by AA

Matrix Spike (MS / MSD)	Soil	QC Batch # 2001/05/04-01.17
Sample ID: SB-10		Lab Sample ID: 2001-05-0024-001
MS: 2001/05/04-01.17-014	Extracted: 05/04/2001 06:53	Analyzed: 05/04/2001 10:11 Dilution: 1.0
MSD: 2001/05/04-01.17-015	Extracted: 05/04/2001 06:53	Analyzed: 05/04/2001 11:32 Dilution: 1.0

Compound	Conc. [mg/Kg]			Exp. Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	MS	MSD	Sample	MS	MSD	MS	MSD	RPD [%]	Recovery	RPD	MS	MSD
Lead	590	599	402	250	250	75.2	78.8	4.7	85-115	20	mso	mso

Total Extractable Petroleum Hydrocarbons (TEPH)

Harding Lawson Assoc -Oakland

✉ 383 Fourth Street, Third Floor
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 53380

Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-C	Soil	05/01/2001 15:00	16

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0024

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: Stephen Osborne

Prep Method: 3550/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: SB-C	Lab Sample ID: 2001-05-0024-016
Project: 53380 Housewives Marketplace	Received: 05/02/2001 12:40
Sampled: 05/01/2001 15:00	Extracted: 05/02/2001 10:11
Matrix: Soil	QC-Batch: 2001/05/02-03.10

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	1.0	mg/Kg	1.00	05/03/2001 10:46	
Motor Oil	ND	50	mg/Kg	1.00	05/03/2001 10:46	
Surrogate(s) o-Terphenyl	90.3	60-130	%	1.00	05/03/2001 10:46	

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To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report
Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank	Soil	QC Batch # 2001/05/02-03.10
MB: 2001/05/02-03.10-001		Date Extracted: 05/02/2001 10:11

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	1	mg/Kg	05/02/2001 21:17	
Motor Oil	ND	50	mg/Kg	05/02/2001 21:17	
Surrogate(s) o-Terphenyl	88.5	60-130	%	05/02/2001 21:17	

To: **Harding Lawson Assoc -Oakland**
Attn: Stephen Osborne

Test Method: 8015M
Prep Method: 3550/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/02-03.10
LCS: 2001/05/02-03.10-002	Extracted: 05/02/2001 10:11	Analyzed 05/02/2001 20:00
LCSD: 2001/05/02-03.10-003	Extracted: 05/02/2001 10:11	Analyzed 05/02/2001 20:39

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD
Diesel	33.1	32.8	41.7	41.7	79.4	78.7	0.9	60-130	25		
Surrogate(s)											
o-Terphenyl	18.2	18.0	20.0	20.0	91.0	90.0		60-130			

Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

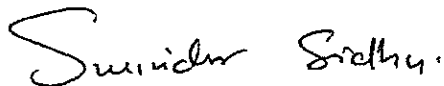
Project: 53380
Housewives Marketplace

Dear Mr. Osborne,

Attached is our report for your samples received on Wednesday May 2, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after June 16, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

CAM W.E.T. (STLC) Lead

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-10	Soil	05/02/2001	1
SB-8	Soil	05/02/2001	2
SB-9	Soil	05/02/2001	3
SB-7	Soil	05/02/2001	4
SB-2	Soil	05/02/2001	5
MW-1	Soil	05/02/2001	6
MW-2	Soil	05/02/2001	7
SB-1	Soil	05/02/2001	8
SB-4	Soil	05/02/2001	9
MW-3	Soil	05/02/2001	10

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-10	Lab Sample ID: 2001-05-0164-001
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	19	0.50	mg/L	1.00	05/14/2001 12:57	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**

Test Method: 6010B

Attn.: Stephen Osborne

Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-8	Lab Sample ID: 2001-05-0164-002
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	05/14/2001 13:00	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-9	Lab Sample ID: 2001-05-0164-003
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	4.1	0.50	mg/L	1.00	05/14/2001 13:04	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-7	Lab Sample ID: 2001-05-0164-004
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	11	0.50	mg/L	1.00	05/14/2001 13:08	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**

Test Method: 6010B

Attn.: Stephen Osborne

Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-2	Lab Sample ID: 2001-05-0164-005
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.8	0.50	mg/L	1.00	05/14/2001 13:11	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**

Test Method: 6010B

Attn.: Stephen Osborne

Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: MW-1	Lab Sample ID: 2001-05-0164-006
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	5.7	0.50	mg/L	1.00	05/14/2001 13:26	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: MW-2	Lab Sample ID: 2001-05-0164-007
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	12	0.50	mg/L	1.00	05/14/2001 13:30	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-1	Lab Sample ID: 2001-05-0164-008
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	9.2	0.50	mg/L	1.00	05/14/2001 13:33	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**

Test Method: 6010B

Attn.: Stephen Osborne

Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-4	Lab Sample ID: 2001-05-0164-009
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	17	0.50	mg/L	1.00	05/14/2001 13:37	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0164

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: MW-3	Lab Sample ID: 2001-05-0164-010
Project: 53380 Housewives Marketplace	Received: 05/02/2001
Sampled: 05/02/2001	Extracted: 05/14/2001 06:09
Matrix: Soil	QC-Batch: 2001/05/14-02.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	0.62	0.50	mg/L	1.00	05/14/2001 13:40	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
CAM W.E.T. (STLC) Lead

Method Blank	Soil	QC Batch # 2001/05/14-02.15
MB: 2001/05/14-02.15-036		Date Extracted: 05/14/2001 06:09

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.50	mg/L	05/14/2001 12:40	

To: **Harding Lawson Assoc -Oakland**
Attn: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

Batch QC Report

CAM W.E.T. (STLC) Lead

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/14-02.15
LCS: 2001/05/14-02.15-037	Extracted: 05/14/2001 06:09	Analyzed 05/14/2001 12:44
LCSD: 2001/05/14-02.15-038	Extracted: 05/14/2001 06:09	Analyzed 05/14/2001 12:48

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Lead	5.04	5.11	5.00	5.00	100.8	102.2	1.4	80-120	20		

X-Mailer: Novell GroupWise Internet Agent 5.5.4.1
Date: Wed, 09 May 2001 13:28:59 -0700
From: "Stephen Osborne" <SJOsborne@mactec.com>
To: <ssidhu@chromalab.com>
Cc: <oojukwu@oaklandnet.com>
Subject: Re: Report for Submission: 2001-05-0024
X-Loop-Detect: 1

2001-05-0164

Surinder- could you please analyze the following samples for soluble lead concentrations using the Waste Extraction Test procedure:

2001-05-0024-001.

-004
-005
-007
-009
-011
-012
-013
-014
-015

These samples had total lead concentrations between 6.9 and 400 mg/kg

We look forward to seeing the results of the groundwater samples tomorrow please call me at 510-628-3211 if you have any questions regards, Steve Osborne

>>> Surinder Sidhu <ssidhu@chromalab.com> 05/08/01 07:03AM >>>

Project# : 53380

Project Name: Housewives Marketplace

This email includes reports for the following tests:

- Cover Letter

File: COV0000064287.PDF

- Volatile Organic Compounds by 8260A

File: REP0000063787.PDF

- Gas/BTEX Compounds by 8015M/8020

File: REP0000063989.PDF

- Total Lead by AA

File: REP0000064283.PDF

- Total Extractable Petroleum Hydrocarbons (TEPH)

File: REP0000063972.PDF

Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

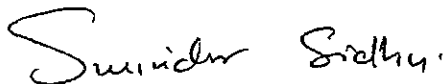
Project: 53380
Housewives Market Place

Dear Mr. Osborne,

Attached is our report for your samples received on Wednesday May 2, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after June 16, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

CAM W.E.T. (STLC) Lead

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380	Project: Housewives Market Place

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-C COMP	Soil	05/01/2001	1

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0351

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

CAM W.E.T. (STLC) Lead

Sample ID: SB-C COMP	Lab Sample ID: 2001-05-0351-001
Project: 53380 Housewives Market Place	Received: 05/02/2001
Sampled: 05/01/2001	Extracted: 05/21/2001 07:34
Matrix: Soil	QC-Batch: 2001/05/21-03.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	05/21/2001 11:00	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3005A

Batch QC Report
CAM W.E.T. (STLC) Lead

Method Blank	Soil	QC Batch # 2001/05/21-03.15
MB: 2001/05/21-03.15-011		Date Extracted: 05/21/2001 07:34

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.50	mg/L	05/21/2001 09:45	

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 6010B
 Prep Method: 3005A

Batch QC Report
 CAM W.E.T. (STLC) Lead

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/21-03.15
LCS: 2001/05/21-03.15-012	Extracted: 05/21/2001 07:34	Analyzed 05/21/2001 09:50
LCSD: 2001/05/21-03.15-013	Extracted: 05/21/2001 07:34	Analyzed 05/21/2001 09:54

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]			RPD		Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]	Recovery	RPD	LCS	LCSD		
Lead	4.74	4.85	5.00	5.00	94.8	97.0	2.3	80-120	20				

Total Lead by AA

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380	Project: Housewives Market Place

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB-C COMP	Soil	05/01/2001	1

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0351

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Total Lead by AA

Sample ID: SB-C COMP	Lab Sample ID: 2001-05-0351-001
Project: 53380 Housewives Market Place	Received: 05/02/2001
Sampled: 05/01/2001	Extracted: 05/18/2001 19:16
Matrix: Soil	QC-Batch: 2001/05/18-02.17

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	5.0	mg/Kg	1.00	05/21/2001 12:21	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Batch QC Report
Total Lead by AA

Method Blank	Soil	QC Batch # 2001/05/18-02.17
MB: 2001/05/18-02.17-012		Date Extracted: 05/18/2001 19:16

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	5	mg/Kg	05/21/2001 12:09	

To: **Harding Lawson Assoc -Oakland**
Attn: Stephen Osborne

Test Method: 7420
Prep Method: 3050B

Batch QC Report

Total Lead by AA

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/18-02.17
LCS: 2001/05/18-02.17-013	Extracted: 05/18/2001 19:16	Analyzed 05/21/2001 12:09
LCSD: 2001/05/18-02.17-014	Extracted: 05/18/2001 19:16	Analyzed 05/21/2001 12:10

Compound	Conc. [mg/Kg]		Exp.Conc. [mg/Kg]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Lead	268	256	250	250	107.2	102.4	4.6	85-115	20		

Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

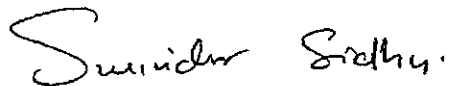
Project: 53380.2
Housewives Marketplace

Dear Mr. Osborne,

Attached is our report for your samples received on Thursday May 3, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after June 17, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

Misc Anions by Ion Chromatograph

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9056
Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	230	10	mg/L	10.00	05/04/2001	

To: **Harding Lawson Assoc -Oakland**

Test Method: 9056

Attn.: Stephen Osborne

Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	210	1.0	mg/L	1.00	05/04/2001	

To: **Harding Lawson Assoc -Oakland**

Test Method: 9056

Attn.: Stephen Osborne

Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	180	5.0	mg/L	5.00	05/04/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9056
Prep Method: 9056

Batch QC Report
Misc Anions by Ion Chromatograph

Method Blank	Water	QC Batch # 2001/05/04-01.41
MB: 2001/05/04-01.41-001		Date Extracted: 05/04/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Chloride	ND	1.0	mg/L	05/04/2001	

To: **Harding Lawson Assoc -Oakland**

Test Method: 9056

Attn: Stephen Osborne

Prep Method: 9056

Batch QC Report

Misc Anions by Ion Chromatograph

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/05/04-01.41
LCS: 2001/05/04-01.41-002	Extracted: 05/04/2001	Analyzed 05/04/2001
LCSD: 2001/05/04-01.41-003	Extracted: 05/04/2001	Analyzed 05/04/2001

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Chloride	19.3	19.2	20.0	20.0	96.5	96.0	0.5	80-120	20		

pH

Harding Lawson Assoc -Oakland

✉ 383 Fourth Street, Third Floor
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 53380.2

Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

pH

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	6.8	0.0	SU	1.00	05/04/2001	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

pH

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	6.8	0.0	SU	1.00	05/04/2001	

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Telephone (925) 484-1919 * Facsimile (925) 484-1096

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

pH

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	6.9	0.0	SU	1.00	05/04/2001	

1220 Quarry Lane * Pleasanton CA 94566-4756
Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

Batch QC Report
pH

Method Blank	Water	QC Batch # 2001/05/04-01.22
MB: 2001/05/04-01.22-001		Date Extracted: 05/04/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
pH	7.06		SU	05/04/2001	

Total Extractable Petroleum Hydrocarbons (TEPH)

Harding Lawson Assoc -Oakland	✉ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: Stephen Osborne

Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/04/2001 10:57
Matrix: Water	QC-Batch: 2001/05/04-02.10
Sample/Analysis Flag rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	61	ug/L	1.22	05/05/2001 00:28	
Motor Oil	ND	610	ug/L	1.22	05/05/2001 00:28	
Surrogate(s) o-Terphenyl	95.1	60-130	%	1.22	05/05/2001 00:28	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/04/2001 10:57
Matrix: Water	QC-Batch: 2001/05/04-02.10
Sample/Analysis Flag rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	61	ug/L	1.23	05/05/2001 01:07	
Motor Oil	ND	610	ug/L	1.23	05/05/2001 01:07	
Surrogate(s) o-Terphenyl	91.8	60-130	%	1.23	05/05/2001 01:07	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn.: Stephen Osborne

Prep Method: 3510/8015M

Total Extractable Petroleum Hydrocarbons (TEPH)

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/04/2001 10:57
Matrix: Water	QC-Batch: 2001/05/04-02.10
Sample/Analysis Flag ri (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	ND	61	ug/L	1.22	05/05/2001 01:46	
Motor Oil	ND	610	ug/L	1.22	05/05/2001 01:46	
Surrogate(s) o-Terphenyl	94.3	60-130	%	1.22	05/05/2001 01:46	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Total Extractable Petroleum Hydrocarbons (TEPH)

Method Blank	Water	QC Batch # 2001/05/04-02.10
MB: 2001/05/04-02.10-001		Date Extracted: 05/04/2001 10:57

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	05/04/2001 19:22	
Motor Oil	ND	500	ug/L	05/04/2001 19:22	
Surrogate(s) o-Terphenyl	97.5	60-130	%	05/04/2001 19:22	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M

Attn: Stephen Osborne

Prep Method: 3510/8015M

Batch QC Report

Total Extractable Petroleum Hydrocarbons (TEPH)

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/05/04-02.10	
LCS:	2001/05/04-02.10-002	Extracted:	05/04/2001 10:57	Analyzed	05/05/2001 02:24
LCSD:	2001/05/04-02.10-003	Extracted:	05/04/2001 10:57	Analyzed	05/05/2001 03:03

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	847	906	1250	1250	67.8	72.5	6.7	60-130	25		
Surrogate(s)											
o-Terphenyl	18.0	18.7	20.0	20.0	90.0	93.5		60-130			

To: Harding Lawson Assoc -Oakland

Attn: Stephen Osborne

Test Method: 8015M

Prep Method: 3510/8015M

Legend & Notes

Total Extractable Petroleum Hydrocarbons (TEPH)

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Gas/BTEX Compounds by 8015M/8020

Harding Lawson Assoc -Oakland

✉ 383 Fourth Street, Third Floor
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 53380.2

Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**

Test Method: 8020
8015M

Attn.: Stephen Osborne

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8020

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/04/2001 16:43
Matrix: Water	QC-Batch: 2001/05/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/04/2001 16:43	
Surrogate(s) 4-Bromofluorobenzene-FID	88.0	50-150	%	1.00	05/04/2001 16:43	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**

Test Method: 8020
8015M

Attn.: Stephen Osborne

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8020

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/04/2001 17:16
Matrix: Water	QC-Batch: 2001/05/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	150	50	ug/L	1.00	05/04/2001 17:16	g
Surrogate(s) 4-Bromofluorobenzene-FID	88.6	50-150	%	1.00	05/04/2001 17:16	

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Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**

Test Method: 8020
8015M

Attn.: Stephen Osborne

Prep Method: 5030

Gas/BTEX Compounds by 8015M/8020

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/04/2001 17:49
Matrix: Water	QC-Batch: 2001/05/04-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	05/04/2001 17:49	
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	69.9	50-150	%	1.00	05/04/2001 17:49	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M
8020

Attn.: Stephen Osborne

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8020

Method Blank	Water	QC Batch # 2001/05/04-01.01
MB: 2001/05/04-01.01-003		Date Extracted: 05/04/2001 08:21

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	05/04/2001 08:21	
Surrogate(s) 4-Bromofluorobenzene-FID	77.0	50-150	%	05/04/2001 08:21	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8015M
8020

Attn: Stephen Osborne

Prep Method: 5030

Batch QC Report

Gas/BTEX Compounds by 8015M/8020

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/05/04-01.01	
LCS:	2001/05/04-01.01-006	Extracted:	05/04/2001 10:00	Analyzed	05/04/2001 10:00
LCSD:	2001/05/04-01.01-007	Extracted:	05/04/2001 10:33	Analyzed	05/04/2001 10:33

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	553	533	500	500	110.6	106.6	3.7	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-Fi	411	400	500	500	82.2	80.0		50-150			

To: *Harding Lawson Assoc -Oakland*

Test Method: 8015M
8020

Attn: Stephen Osborne

Prep Method: 5030

Legend & Notes

Gas/BTEX Compounds by 8015M/8020

Analyte Flags

g

Hydrocarbon reported in the gasoline range does not match our gasoline standard.

Total Dissolved Solids (TDS)

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**

Test Method: 160.1

Attn.: Stephen Osborne

Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/07/2001 09:30
Matrix: Water	QC-Batch: 2001/05/08-01.28

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	860	10	mg/L	1.00	05/08/2001 08:30	

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STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**

Test Method: 160.1

Attn.: Stephen Osborne

Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/07/2001 09:30
Matrix: Water	QC-Batch: 2001/05/08-01.28
Sample/Analysis Flag o (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	550	20	mg/L	2.00	05/08/2001 08:30	

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Telephone (925) 484-1919 * Facsimile (925) 484-1096

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0076

To: **Harding Lawson Assoc -Oakland**

Test Method: 160.1

Attn.: Stephen Osborne

Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/07/2001 09:30
Matrix: Water	QC-Batch: 2001/05/08-01.28
Sample/Analysis Flag <input type="radio"/> (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	920	20	mg/L	2.00	05/08/2001 08:30	

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To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 160.1
Prep Method: 160.1

Batch QC Report
Total Dissolved Solids (TDS)

Method Blank	Water	QC Batch # 2001/05/08-01.28
MB: 2001/05/08-01.28-001		Date Extracted: 05/07/2001 09:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
TDS	ND	10	mg/L	05/08/2001 08:30	

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 160.1
 Prep Method: 160.1

Batch QC Report

Total Dissolved Solids (TDS)

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/05/08-01.28
LCS: 2001/05/08-01.28-002	Extracted: 05/07/2001 09:30	Analyzed 05/08/2001 08:30
LCSD: 2001/05/08-01.28-003	Extracted: 05/07/2001 09:30	Analyzed 05/08/2001 08:30

Compound	Conc. [mg/L]		Exp. Conc. [mg/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
TDS	898	906	1000	1000	89.8	90.6	0.9	80-120	20		

To: **Harding Lawson Assoc -Oakland**
Attn: Stephen Osborne

Test Method: 160.1
Prep Method: 160.1

Legend & Notes

Total Dissolved Solids (TDS)

Analysis Flags

o

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

Volatile Organic Compounds by 8260A

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

To: **Harding Lawson Assoc -Oakland**

Test Method: 8260A

Attn.: Stephen Osborne

Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/07/2001 20:26
Matrix: Water	QC-Batch: 2001/05/07-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	50	ug/L	1.00	05/07/2001 20:26	
Benzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Bromodichloromethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Bromoform	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Bromomethane	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Carbon tetrachloride	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Chlorobenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Chloroethane	ND	1.0	ug/L	1.00	05/07/2001 20:26	
2-Butanone(MEK)	ND	50	ug/L	1.00	05/07/2001 20:26	
2-Chloroethylvinyl ether	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Chloroform	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Chloromethane	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Dibromochloromethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,2-Dichlorobenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,3-Dichlorobenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,4-Dichlorobenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	1.00	05/07/2001 20:26	
1,2-Dibromoethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Dibromomethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Dichlorodifluoromethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,1-Dichloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,2-Dichloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,1-Dichloroethene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
cis-1,2-Dichloroethene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
trans-1,2-Dichloroethene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,2-Dichloropropane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
cis-1,3-Dichloropropene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
trans-1,3-Dichloropropene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Ethylbenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
2-Hexanone	ND	50	ug/L	1.00	05/07/2001 20:26	
Methylene chloride	ND	5.0	ug/L	1.00	05/07/2001 20:26	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	05/07/2001 20:26	
Naphthalene	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Styrene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,1,2,2-Tetrachloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Tetrachloroethene	ND	0.50	ug/L	1.00	05/07/2001 20:26	

1220 Quarry Lane * Pleasanton, CA 94566-4756

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To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/07/2001 20:26
Matrix: Water	QC-Batch: 2001/05/07-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Toluene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,1,1-Trichloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
1,1,2-Trichloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Trichloroethene	2.5	0.50	ug/L	1.00	05/07/2001 20:26	
1,1,1,2-Tetrachloroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Vinyl acetate	ND	5.0	ug/L	1.00	05/07/2001 20:26	
Vinyl chloride	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Total xylenes	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Trichlorotrifluoroethane	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Carbon disulfide	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Isopropylbenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Bromobenzene	ND	0.50	ug/L	1.00	05/07/2001 20:26	
Bromochloromethane	ND	1.0	ug/L	1.00	05/07/2001 20:26	
Trichlorofluoromethane	ND	2.0	ug/L	1.00	05/07/2001 20:26	
MTBE	ND	5.0	ug/L	1.00	05/07/2001 20:26	
Surrogate(s)						
4-Bromofluorobenzene	105.1	86-115	%	1.00	05/07/2001 20:26	
1,2-Dichloroethane-d4	115.2	76-114	%	1.00	05/07/2001 20:26	sh
Toluene-d8	91.4	88-110	%	1.00	05/07/2001 20:26	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/08/2001 22:27
Matrix: Water	QC-Batch: 2001/05/08-01.07
Sample/Analysis Flag o (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	1000	ug/L	20.00	05/08/2001 22:27	
Benzene	ND	10	ug/L	20.00	05/08/2001 22:27	
Bromodichloromethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Bromoform	ND	10	ug/L	20.00	05/08/2001 22:27	
Bromomethane	ND	20	ug/L	20.00	05/08/2001 22:27	
Carbon tetrachloride	ND	10	ug/L	20.00	05/08/2001 22:27	
Chlorobenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
Chloroethane	ND	20	ug/L	20.00	05/08/2001 22:27	
2-Butanone(MEK)	2400	1000	ug/L	20.00	05/08/2001 22:27	
2-Chloroethylvinyl ether	ND	10	ug/L	20.00	05/08/2001 22:27	
Chloroform	ND	10	ug/L	20.00	05/08/2001 22:27	
Chloromethane	ND	20	ug/L	20.00	05/08/2001 22:27	
Dibromochloromethane	ND	10	ug/L	20.00	05/08/2001 22:27	
1,2-Dichlorobenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,3-Dichlorobenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,4-Dichlorobenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,2-Dibromo-3-chloropropane	ND	100	ug/L	20.00	05/08/2001 22:27	
1,2-Dibromoethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Dibromomethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Dichlorodifluoromethane	ND	10	ug/L	20.00	05/08/2001 22:27	
1,1-Dichloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
1,2-Dichloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
1,1-Dichloroethene	ND	10	ug/L	20.00	05/08/2001 22:27	
cis-1,2-Dichloroethene	ND	10	ug/L	20.00	05/08/2001 22:27	
trans-1,2-Dichloroethene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,2-Dichloropropane	ND	10	ug/L	20.00	05/08/2001 22:27	
cis-1,3-Dichloropropene	ND	10	ug/L	20.00	05/08/2001 22:27	
trans-1,3-Dichloropropene	ND	10	ug/L	20.00	05/08/2001 22:27	
Ethylbenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
2-Hexanone	ND	1000	ug/L	20.00	05/08/2001 22:27	
Methylene chloride	ND	100	ug/L	20.00	05/08/2001 22:27	
4-Methyl-2-pentanone (MIBK)	ND	1000	ug/L	20.00	05/08/2001 22:27	
Naphthalene	ND	20	ug/L	20.00	05/08/2001 22:27	
Styrene	ND	10	ug/L	20.00	05/08/2001 22:27	

1220 Quarry Lane * Pleasanton CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/08/2001 22:27
Matrix: Water	QC-Batch: 2001/05/08-01.07
Sample/Analysis Flag o (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
1,1,2,2-Tetrachloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Tetrachloroethene	ND	10	ug/L	20.00	05/08/2001 22:27	
Toluene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,1,1-Trichloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
1,1,2-Trichloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Trichloroethene	ND	10	ug/L	20.00	05/08/2001 22:27	
1,1,1,2-Tetrachloroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Vinyl acetate	ND	100	ug/L	20.00	05/08/2001 22:27	
Vinyl chloride	ND	10	ug/L	20.00	05/08/2001 22:27	
Total xylenes	ND	20	ug/L	20.00	05/08/2001 22:27	
Trichlorotrifluoroethane	ND	10	ug/L	20.00	05/08/2001 22:27	
Carbon disulfide	ND	20	ug/L	20.00	05/08/2001 22:27	
Isopropylbenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
Bromobenzene	ND	10	ug/L	20.00	05/08/2001 22:27	
Bromochloromethane	ND	20	ug/L	20.00	05/08/2001 22:27	
Trichlorofluoromethane	ND	40	ug/L	20.00	05/08/2001 22:27	
MTBE	ND	100	ug/L	20.00	05/08/2001 22:27	
Surrogate(s)						
4-Bromofluorobenzene	104.5	86-115	%	20.00	05/08/2001 22:27	
1,2-Dichloroethane-d4	110.4	76-114	%	20.00	05/08/2001 22:27	
Toluene-d8	97.3	88-110	%	20.00	05/08/2001 22:27	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Volatile Organic Compounds by 8260A

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/08/2001 22:00
Matrix: Water	QC-Batch: 2001/05/08-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Acetone	ND	100	ug/L	2.00	05/08/2001 22:00	
Benzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Bromodichloromethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Bromoform	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Bromomethane	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Carbon tetrachloride	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Chlorobenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Chloroethane	ND	2.0	ug/L	2.00	05/08/2001 22:00	
2-Butanone(MEK)	ND	100	ug/L	2.00	05/08/2001 22:00	
2-Chloroethylvinyl ether	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Chloroform	2.0	1.0	ug/L	2.00	05/08/2001 22:00	
Chloromethane	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Dibromochloromethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,2-Dichlorobenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,3-Dichlorobenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,4-Dichlorobenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,2-Dibromo-3-chloropropane	ND	10	ug/L	2.00	05/08/2001 22:00	
1,2-Dibromoethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Dibromomethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Dichlorodifluoromethane	2.2	1.0	ug/L	2.00	05/08/2001 22:00	
1,1-Dichloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,2-Dichloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,1-Dichloroethene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
cis-1,2-Dichloroethene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
trans-1,2-Dichloroethene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,2-Dichloropropane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
cis-1,3-Dichloropropene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
trans-1,3-Dichloropropene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Ethylbenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
2-Hexanone	ND	100	ug/L	2.00	05/08/2001 22:00	
Methylene chloride	ND	10	ug/L	2.00	05/08/2001 22:00	
4-Methyl-2-pentanone (MIBK)	ND	100	ug/L	2.00	05/08/2001 22:00	
Naphthalene	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Styrene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Tetrachloroethene	ND	1.0	ug/L	2.00	05/08/2001 22:00	

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To: **Harding Lawson Assoc -Oakland**
 Attn.: **Stephen Osborne**

Test Method: **8260A**
 Prep Method: **5030**

Volatile Organic Compounds by 8260A

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/08/2001 22:00
Matrix: Water	QC-Batch: 2001/05/08-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Toluene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,1,1-Trichloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
1,1,2-Trichloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Trichloroethene	150	1.0	ug/L	2.00	05/08/2001 22:00	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Vinyl acetate	ND	10	ug/L	2.00	05/08/2001 22:00	
Vinyl chloride	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Total xylenes	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Trichlorotrifluoroethane	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Carbon disulfide	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Isopropylbenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Bromobenzene	ND	1.0	ug/L	2.00	05/08/2001 22:00	
Bromochloromethane	ND	2.0	ug/L	2.00	05/08/2001 22:00	
Trichlorofluoromethane	ND	4.0	ug/L	2.00	05/08/2001 22:00	
MTBE	ND	10	ug/L	2.00	05/08/2001 22:00	
Surrogate(s)						
4-Bromofluorobenzene	101.4	86-115	%	2.00	05/08/2001 22:00	
1,2-Dichloroethane-d4	111.7	76-114	%	2.00	05/08/2001 22:00	
Toluene-d8	93.2	88-110	%	2.00	05/08/2001 22:00	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Water	QC Batch # 2001/05/07-01.07
MB: 2001/05/07-01.07-004		Date Extracted: 05/07/2001 12:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	05/07/2001 12:56	
Benzene	ND	0.5	ug/L	05/07/2001 12:56	
Bromodichloromethane	ND	0.5	ug/L	05/07/2001 12:56	
Bromoform	ND	0.5	ug/L	05/07/2001 12:56	
Bromomethane	ND	1.0	ug/L	05/07/2001 12:56	
Carbon tetrachloride	ND	0.5	ug/L	05/07/2001 12:56	
Chlorobenzene	ND	0.5	ug/L	05/07/2001 12:56	
Chloroethane	ND	1.0	ug/L	05/07/2001 12:56	
2-Butanone(MEK)	ND	50	ug/L	05/07/2001 12:56	
2-Chloroethylvinyl ether	ND	0.5	ug/L	05/07/2001 12:56	
Chloroform	ND	0.5	ug/L	05/07/2001 12:56	
Chloromethane	ND	1.0	ug/L	05/07/2001 12:56	
Dibromochloromethane	ND	0.5	ug/L	05/07/2001 12:56	
1,2-Dichlorobenzene	ND	0.5	ug/L	05/07/2001 12:56	
1,3-Dichlorobenzene	ND	0.5	ug/L	05/07/2001 12:56	
1,4-Dichlorobenzene	ND	0.5	ug/L	05/07/2001 12:56	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	05/07/2001 12:56	
1,2-Dibromoethane	ND	0.5	ug/L	05/07/2001 12:56	
Dibromomethane	ND	0.5	ug/L	05/07/2001 12:56	
Dichlorodifluoromethane	ND	0.5	ug/L	05/07/2001 12:56	
1,1-Dichloroethane	ND	0.5	ug/L	05/07/2001 12:56	
1,2-Dichloroethane	ND	0.5	ug/L	05/07/2001 12:56	
1,1-Dichloroethene	ND	0.5	ug/L	05/07/2001 12:56	
cis-1,2-Dichloroethene	ND	0.5	ug/L	05/07/2001 12:56	
trans-1,2-Dichloroethene	ND	0.5	ug/L	05/07/2001 12:56	
1,2-Dichloropropane	ND	0.5	ug/L	05/07/2001 12:56	
cis-1,3-Dichloropropene	ND	0.5	ug/L	05/07/2001 12:56	
trans-1,3-Dichloropropene	ND	0.5	ug/L	05/07/2001 12:56	
Ethylbenzene	ND	0.5	ug/L	05/07/2001 12:56	
2-Hexanone	ND	50	ug/L	05/07/2001 12:56	
Methylene chloride	ND	5.0	ug/L	05/07/2001 12:56	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	05/07/2001 12:56	
Naphthalene	ND	1.0	ug/L	05/07/2001 12:56	
Styrene	ND	0.5	ug/L	05/07/2001 12:56	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	05/07/2001 12:56	
Tetrachloroethene	ND	0.5	ug/L	05/07/2001 12:56	
Toluene	ND	0.5	ug/L	05/07/2001 12:56	
1,1,1-Trichloroethane	ND	0.5	ug/L	05/07/2001 12:56	
1,1,2-Trichloroethane	ND	0.5	ug/L	05/07/2001 12:56	
Trichloroethene	ND	0.5	ug/L	05/07/2001 12:56	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	05/07/2001 12:56	
Vinyl acetate	ND	5.0	ug/L	05/07/2001 12:56	
Vinyl chloride	ND	0.5	ug/L	05/07/2001 12:56	

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To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Water	QC Batch # 2001/05/07-01.07
MB: 2001/05/07-01.07-004		Date Extracted: 05/07/2001 12:56

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Total xylenes	ND	1.0	ug/L	05/07/2001 12:56	
Trichlorotrifluoroethane	ND	0.5	ug/L	05/07/2001 12:56	
Carbon disulfide	ND	1.0	ug/L	05/07/2001 12:56	
Isopropylbenzene	ND	0.5	ug/L	05/07/2001 12:56	
Bromobenzene	ND	0.5	ug/L	05/07/2001 12:56	
Bromochloromethane	ND	1.0	ug/L	05/07/2001 12:56	
Trichlorofluoromethane	ND	2.0	ug/L	05/07/2001 12:56	
MTBE	ND	5.0	ug/L	05/07/2001 12:56	
Surrogate(s)					
4-Bromofluorobenzene	94.5	86-115	%	05/07/2001 12:56	
1,2-Dichloroethane-d4	110.5	76-114	%	05/07/2001 12:56	
Toluene-d8	96.7	88-110	%	05/07/2001 12:56	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Water	QC Batch # 2001/05/08-01.07
MB: 2001/05/08-01.07-006		Date Extracted: 05/08/2001 14:55

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Acetone	ND	50	ug/L	05/08/2001 14:55	
Benzene	ND	0.5	ug/L	05/08/2001 14:55	
Bromodichloromethane	ND	0.5	ug/L	05/08/2001 14:55	
Bromoform	ND	0.5	ug/L	05/08/2001 14:55	
Bromomethane	ND	1.0	ug/L	05/08/2001 14:55	
Carbon tetrachloride	ND	0.5	ug/L	05/08/2001 14:55	
Chlorobenzene	ND	0.5	ug/L	05/08/2001 14:55	
Chloroethane	ND	1.0	ug/L	05/08/2001 14:55	
2-Butanone(MEK)	ND	50	ug/L	05/08/2001 14:55	
2-Chloroethylvinyl ether	ND	0.5	ug/L	05/08/2001 14:55	
Chloroform	ND	0.5	ug/L	05/08/2001 14:55	
Chloromethane	ND	1.0	ug/L	05/08/2001 14:55	
Dibromochloromethane	ND	0.5	ug/L	05/08/2001 14:55	
1,2-Dichlorobenzene	ND	0.5	ug/L	05/08/2001 14:55	
1,3-Dichlorobenzene	ND	0.5	ug/L	05/08/2001 14:55	
1,4-Dichlorobenzene	ND	0.5	ug/L	05/08/2001 14:55	
1,2-Dibromo-3-chloropropane	ND	5.0	ug/L	05/08/2001 14:55	
1,2-Dibromoethane	ND	0.5	ug/L	05/08/2001 14:55	
Dibromomethane	ND	0.5	ug/L	05/08/2001 14:55	
Dichlorodifluoromethane	ND	0.5	ug/L	05/08/2001 14:55	
1,1-Dichloroethane	ND	0.5	ug/L	05/08/2001 14:55	
1,2-Dichloroethane	ND	0.5	ug/L	05/08/2001 14:55	
1,1-Dichloroethene	ND	0.5	ug/L	05/08/2001 14:55	
cis-1,2-Dichloroethene	ND	0.5	ug/L	05/08/2001 14:55	
trans-1,2-Dichloroethene	ND	0.5	ug/L	05/08/2001 14:55	
1,2-Dichloropropane	ND	0.5	ug/L	05/08/2001 14:55	
cis-1,3-Dichloropropene	ND	0.5	ug/L	05/08/2001 14:55	
trans-1,3-Dichloropropene	ND	0.5	ug/L	05/08/2001 14:55	
Ethylbenzene	ND	0.5	ug/L	05/08/2001 14:55	
2-Hexanone	ND	50	ug/L	05/08/2001 14:55	
Methylene chloride	ND	5.0	ug/L	05/08/2001 14:55	
4-Methyl-2-pentanone (MIBK)	124	50	ug/L	05/08/2001 14:55	
Naphthalene	ND	1.0	ug/L	05/08/2001 14:55	
Styrene	ND	0.5	ug/L	05/08/2001 14:55	
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	05/08/2001 14:55	
Tetrachloroethene	ND	0.5	ug/L	05/08/2001 14:55	
Toluene	ND	0.5	ug/L	05/08/2001 14:55	
1,1,1-Trichloroethane	ND	0.5	ug/L	05/08/2001 14:55	
1,1,2-Trichloroethane	ND	0.5	ug/L	05/08/2001 14:55	
Trichloroethene	ND	0.5	ug/L	05/08/2001 14:55	
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L	05/08/2001 14:55	
Vinyl acetate	ND	5.0	ug/L	05/08/2001 14:55	
Vinyl chloride	ND	0.5	ug/L	05/08/2001 14:55	

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Telephone : (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report
 Volatile Organic Compounds by 8260A

Method Blank	Water	QC Batch # 2001/05/08-01.07
MB: 2001/05/08-01.07-006		Date Extracted: 05/08/2001 14:55

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Total xylenes	ND	1.0	ug/L	05/08/2001 14:55	
Trichlorotrifluoroethane	ND	0.5	ug/L	05/08/2001 14:55	
Carbon disulfide	ND	1.0	ug/L	05/08/2001 14:55	
Isopropylbenzene	ND	0.5	ug/L	05/08/2001 14:55	
Bromobenzene	ND	0.5	ug/L	05/08/2001 14:55	
Bromochloromethane	ND	1.0	ug/L	05/08/2001 14:55	
Trichlorofluoromethane	ND	2.0	ug/L	05/08/2001 14:55	
MTBE	ND	5.0	ug/L	05/08/2001 14:55	
Surrogate(s)					
4-Bromofluorobenzene	99.6	86-115	%	05/08/2001 14:55	
1,2-Dichloroethane-d4	111.9	76-114	%	05/08/2001 14:55	
Toluene-d8	98.4	88-110	%	05/08/2001 14:55	

To: **Harding Lawson Assoc -Oakland**

Test Method: 8260A

Attn: Stephen Osborne

Prep Method: 5030

Batch QC Report

Volatile Organic Compounds by 8260A

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/05/07-01.07	
LCS:	2001/05/07-01.07-002	Extracted:	05/07/2001 12:03	Analyzed	05/07/2001 12:03
LCSD:	2001/05/07-01.07-003	Extracted:	05/07/2001 12:30	Analyzed	05/07/2001 12:30

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	52.4	57.1	50.0	50.0	104.8	114.2	8.6	69-129	20		
Chlorobenzene	49.0	52.2	50.0	50.0	98.0	104.4	6.3	61-121	20		
1,1-Dichloroethene	46.9	53.8	50.0	50.0	93.8	107.6	13.7	65-125	20		
Toluene	44.8	52.5	50.0	50.0	89.6	105.0	15.8	70-130	20		
Trichloroethene	50.9	54.3	50.0	50.0	101.8	108.6	6.5	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	495	507	500	500	99.0	101.4		86-115			
1,2-Dichloroethane-d4	530	530	500	500	106.0	106.0		76-114			
Toluene-d8	444	488	500	500	88.8	97.6		88-110			

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 8260A
 Prep Method: 5030

Batch QC Report

Volatile Organic Compounds by 8260A

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/05/08-01.07
LCS: 2001/05/08-01.07-004	Extracted: 05/08/2001 14:02	Analyzed 05/08/2001 14:02
LCSD: 2001/05/08-01.07-005	Extracted: 05/08/2001 14:28	Analyzed 05/08/2001 14:28

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%] RPD			Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	RPD [%]	Recovery	RPD	LCS	LCSD
Benzene	60.4	55.0	50.0	50.0	120.8	110.0	9.4	69-129	20		
Chlorobenzene	53.6	49.8	50.0	50.0	107.2	99.6	7.4	61-121	20		
1,1-Dichloroethene	58.3	54.6	50.0	50.0	116.6	109.2	6.6	65-125	20		
Toluene	56.0	49.6	50.0	50.0	112.0	99.2	12.1	70-130	20		
Trichloroethene	58.5	53.0	50.0	50.0	117.0	106.0	9.9	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	518	513	500	500	103.6	102.6		86-115			
1,2-Dichloroethane-d4	533	529	500	500	106.6	105.8		76-114			
Toluene-d8	494	472	500	500	98.8	94.4		88-110			

To: **Harding Lawson Assoc -Oakland**
Attn: Stephen Osborne

Test Method: 8260A
Prep Method: 5030

Legend & Notes

Volatile Organic Compounds by 8260A

Analysis Flags

o

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

Analyte Flags

sh

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

Specific Conductance

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Marketplace

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-2	Water	05/03/2001 08:10	1
MW-3	Water	05/03/2001 09:30	2
MW-1	Water	05/03/2001 10:40	3

To: **Harding Lawson Assoc -Oakland**

Test Method: 9050A/120.1

Attn.: Stephen Osborne

Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-2	Lab Sample ID: 2001-05-0076-001
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 08:10	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	1400	2.0	uS/cm	1.00	05/04/2001	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 9050A/120.1
 Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-3	Lab Sample ID: 2001-05-0076-002
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 09:30	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	1200	2.0	uS/cm	1.00	05/04/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9050A/120.1
Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-1	Lab Sample ID: 2001-05-0076-003
Project: 53380.2 Housewives Marketplace	Received: 05/03/2001 17:15
Sampled: 05/03/2001 10:40	Extracted: 05/04/2001
Matrix: Water	QC-Batch: 2001/05/04-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	1200	2.0	uS/cm	1.00	05/04/2001	

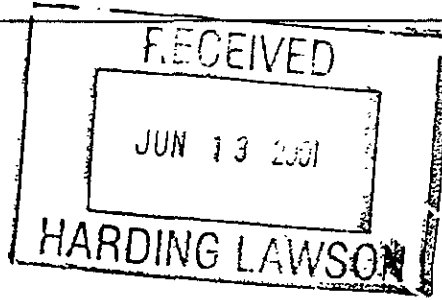
To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9050A/120.1
Prep Method: 9050A/120.1

Batch QC Report
Specific Conductance

Method Blank	Water	QC Batch # 2001/05/04-01.24
MB: 2001/05/04-01.24-001		Date Extracted: 05/04/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Specific conductance (EC)	ND	2.0	uS/cm	05/04/2001	



Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

Project: Housewives Market Place

Dear Mr. Osborne,

Attached is our report for your samples received on Thursday May 3, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after June 17, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,

A handwritten signature in cursive script that reads "Surinder Sidhu".

Surinder Sidhu

TCLP Lead

Harding Lawson Assoc -Oakland	<input checked="" type="checkbox"/> 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #:	Project: Housewives Market Place

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
SB/MW COMPOSITE (10:1)	Soil	05/02/2001	1

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3010A

TCLP Lead

Sample ID: SB/MW COMPOSITE (10:1)	Lab Sample ID: 2001-05-0349-001
Project: Housewives Market Place	Received: 05/03/2001
Sampled: 05/02/2001	Extracted: 05/22/2001 05:55
Matrix: Soil	QC-Batch: 2001/05/22-01.15

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Lead	ND	0.50	mg/L	1.00	05/22/2001 09:26	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 6010B
Prep Method: 3010A

Batch QC Report
TCLP Lead

Method Blank	Soil	QC Batch # 2001/05/22-01.15
MB: 2001/05/22-01.15-011		Date Extracted: 05/22/2001 05:55

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Lead	ND	0.50	mg/L	05/22/2001 08:47	

To: **Harding Lawson Assoc -Oakland**
 Attn: Stephen Osborne

Test Method: 6010B
 Prep Method: 3010A

Batch QC Report

TCLP Lead

Laboratory Control Spike (LCS/LCSD)	Soil	QC Batch # 2001/05/22-01.15
LCS: 2001/05/22-01.15-012	Extracted: 05/22/2001 05:55	Analyzed 05/22/2001 08:51
LCSD: 2001/05/22-01.15-013	Extracted: 05/22/2001 05:55	Analyzed 05/22/2001 08:56

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]			RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD	[%]		Recovery	RPD	LCS	LCSD
Lead	4.75	4.81	5.00	5.00	95.0	96.2	1.3	80-120	20			

ADD ON/CHANGE ORDER

2001-05-0349
New Submission No:

CHROMALAB, INC.

Order No: 59274

Environmental Services (SDB) (DOHS 1094)

Name of Caller: Stephen Osborne

Original Submission Info

Client Name: Handing Lawson Ass

Call Date: 05/16/01 Time: _____

Project Mgr: Stephen Osborne

Add on Due Date: 05/23/01 Date Sampled _____

Project Name: House w. veis Market Palace

Comments: TCLP 'Pb'

Project No: _____

(10:1) Composite

PO#: _____

Date Received: _____

Submission No: 2001-05-0164

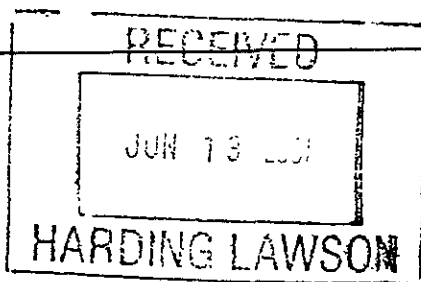
ANALYSIS REPORT

SAMPLE ID	DATE	TIME	MATRIX	PRESERV.
SB - 10	5/2/01		Soil	
SB - 8				
SB - 9				
SB - 7				
SB - 2				
MW - 1				
MW - 2				
SB - 1				
SB - 4				

TPH-(EPA 8015,8020) <input type="checkbox"/> Gas w/ <input type="checkbox"/> STEX <input type="checkbox"/> MTBE	PURGEABLE AROMATICS STEX (EPA 8020)	TPH-Diesel (EPA 8015M)	TEPH (EPA 8015M) <input type="checkbox"/> Diesel <input type="checkbox"/> M.O. <input type="checkbox"/> Other	PURGEABLE HALOCARBONS, (HVOCs) (EPA 8010)	VOLATILE ORGANICS (VOCs) (EPA 8260)	SEMIVOLATILES (EPA 8270)	Oil & Grease <input type="checkbox"/> Petrol <input type="checkbox"/> Total <input type="checkbox"/> 1664	PESTICIDES (EPA 8080) <input type="checkbox"/> PCB'S (EPA 8080)	PNA's by <input type="checkbox"/> 8270 <input type="checkbox"/> 8310	Spec. Cond. <input type="checkbox"/> TSS <input type="checkbox"/> IDS	LUFF METALS: Cd, Cr, Pb, Ni, Zn	CAM 17 METALS (EPA 6010/7470/7471)	TOTAL LEAD	W.E.T. (STLR) <u>X</u> TCLP (Pb)	Equivalent Chromium <input type="checkbox"/> pH 2.4 hr hold time for H2O
--	--	------------------------	--	--	--	-----------------------------	--	--	--	--	------------------------------------	---------------------------------------	------------	-------------------------------------	---

make One Composite and Run for
TCLP (Pb) Please

NUMBER OF CONTAINERS



Harding Lawson Assoc -Oakland
383 Fourth Street, Third Floor
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

Project: 53380.2
Housewives Market

Dear Mr. Osborne,

Attached is our report for your samples received on Thursday May 17, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after July 1, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,

A handwritten signature in cursive script that reads "Surinder Sidhu".

Surinder Sidhu

Misc Anions by Ion Chromatograph

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-3	Water	05/17/2001 07:35	1
MW-2	Water	05/17/2001 08:30	2
MW-1	Water	05/17/2001 09:05	3

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9056
Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-3	Lab Sample ID: 2001-05-0335-001
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 07:35	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	59	5.0	mg/L	5.00	05/18/2001	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9056
Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-2	Lab Sample ID: 2001-05-0335-002
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 08:30	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	90	5.0	mg/L	5.00	05/18/2001	

To: **Harding Lawson Assoc -Oakland**
 Attn.: Stephen Osborne

Test Method: 9056
 Prep Method: 9056

Misc Anions by Ion Chromatograph

Sample ID: MW-1	Lab Sample ID: 2001-05-0335-003
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 09:05	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.41

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Chloride	64	5.0	mg/L	5.00	05/18/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9056
Prep Method: 9056

Batch QC Report
Misc Anions by Ion Chromatograph

Method Blank	Water	QC Batch # 2001/05/18-01.41
MB: 2001/05/18-01.41-001		Date Extracted: 05/18/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Chloride	ND	1.0	mg/L	05/18/2001	

To: **Harding Lawson Assoc -Oakland**

Test Method: 9056

Attn: Stephen Osborne

Prep Method: 9056

Batch QC Report

Misc Anions by Ion Chromatograph

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/05/18-01.41
LCS: 2001/05/18-01.41-002	Extracted: 05/18/2001	Analyzed 05/18/2001
LCSD: 2001/05/18-01.41-003	Extracted: 05/18/2001	Analyzed 05/18/2001

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Chloride	19.3	19.4	20.0	20.0	96.5	97.0	0.5	80-120	20		

pH

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-3	Water	05/17/2001 07:35	1
MW-2	Water	05/17/2001 08:30	2
MW-1	Water	05/17/2001 09:05	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

pH

Sample ID: MW-3	Lab Sample ID: 2001-05-0335-001
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 07:35	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	0.0	0.0	SU	1.00	05/18/2001	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**

Test Method: 9040B

Attn.: Stephen Osborne

Prep Method: 9040B

pH

Sample ID: MW-2	Lab Sample ID: 2001-05-0335-002
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 08:30	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	7.0	0.0	SU	1.00	05/18/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

pH

Sample ID: MW-1	Lab Sample ID: 2001-05-0335-003
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 09:05	Extracted: 05/18/2001
Matrix: Water	QC-Batch: 2001/05/18-01.22

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
pH	7.0	0.0	SU	1.00	05/18/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9040B
Prep Method: 9040B

Batch QC Report
pH

Method Blank	Water	QC Batch # 2001/05/18-01.22
MB: 2001/05/18-01.22-001		Date Extracted: 05/18/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
pH	7.08		SU	05/18/2001	

Specific Conductance

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-3	Water	05/17/2001 07:35	1
MW-2	Water	05/17/2001 08:30	2
MW-1	Water	05/17/2001 09:05	3

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9050A/120.1
Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-3	Lab Sample ID: 2001-05-0335-001
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 07:35	Extracted: 05/18/2001 11:30
Matrix: Water	QC-Batch: 2001/05/18-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	710	2.0	uS/cm	1.00	05/18/2001 11:30	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**

Test Method: 9050A/120.1

Attn.: Stephen Osborne

Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-2	Lab Sample ID: 2001-05-0335-002
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 08:30	Extracted: 05/18/2001 11:30
Matrix: Water	QC-Batch: 2001/05/18-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	950	2.0	uS/cm	1.00	05/18/2001 11:30	

1220 Quarry Lane * Pleasanton, CA 94566-4756
Telephone (925) 484-1919 * Facsimile (925) 484-1096

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**

Test Method: 9050A/120.1

Attn.: Stephen Osborne

Prep Method: 9050A/120.1

Specific Conductance

Sample ID: MW-1	Lab Sample ID: 2001-05-0335-003
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 09:05	Extracted: 05/18/2001 11:30
Matrix: Water	QC-Batch: 2001/05/18-01.24

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Specific conductance (EC)	850	2.0	uS/cm	1.00	05/18/2001 11:30	

1220 Quarry Lane * Pleasanton CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 9050A/120.1
Prep Method: 9050A/120.1

Batch QC Report
Specific Conductance

Method Blank	Water	QC Batch # 2001/05/18-01.24
MB: 2001/05/18-01.24-001		Date Extracted: 05/18/2001 11:30

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Specific conductance (EC)	ND	2.0	uS/cm	05/18/2001 11:30	

Total Dissolved Solids (TDS)

Harding Lawson Assoc -Oakland	☒ 383 Fourth Street, Third Floor Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 53380.2	Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
MW-3	Water	05/17/2001 07:35	1
MW-2	Water	05/17/2001 08:30	2
MW-1	Water	05/17/2001 09:05	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 160.1
Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-3	Lab Sample ID: 2001-05-0335-001
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 07:35	Extracted: 05/22/2001
Matrix: Water	QC-Batch: 2001/05/22-01.28

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	410	10	mg/L	1.00	05/22/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 160.1
Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-2	Lab Sample ID: 2001-05-0335-002
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 08:30	Extracted: 05/22/2001
Matrix: Water	QC-Batch: 2001/05/22-01.28

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	540	10	mg/L	1.00	05/22/2001	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-05-0335

To: **Harding Lawson Assoc -Oakland**

Test Method: 160.1

Attn.: Stephen Osborne

Prep Method: 160.1

Total Dissolved Solids (TDS)

Sample ID: MW-1	Lab Sample ID: 2001-05-0335-003
Project: 53380.2 Housewives Market	Received: 05/17/2001 15:31
Sampled: 05/17/2001 09:05	Extracted: 05/22/2001
Matrix: Water	QC-Batch: 2001/05/22-01.28

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
TDS	530	10	mg/L	1.00	05/22/2001	

To: **Harding Lawson Assoc -Oakland**
Attn.: Stephen Osborne

Test Method: 160.1
Prep Method: 160.1

Batch QC Report
Total Dissolved Solids (TDS)

Method Blank	Water	QC Batch # 2001/05/22-01.28
MB: 2001/05/22-01.28-001		Date Extracted: 05/22/2001

Compound	Result	Rep.Limit	Units	Analyzed	Flag
TDS	ND	10	mg/L	05/22/2001	

To: **Harding Lawson Assoc -Oakland**

Test Method: 160.1

Attn: Stephen Osborne

Prep Method: 160.1

Batch QC Report

Total Dissolved Solids (TDS)

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/05/22-01.28
LCS: 2001/05/22-01.28-002	Extracted: 05/22/2001	Analyzed 05/22/2001
LCSD: 2001/05/22-01.28-003	Extracted: 05/22/2001	Analyzed 05/22/2001

Compound	Conc. [mg/L]		Exp.Conc. [mg/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
TDS	941	1050	1000	1000	94.1	105.0	10.9	80-120	20		



Harding Lawson Associates
 383 Fourth Street, Third Floor
 Oakland, California 94607
 (510) 451-1001 - Phone
 (510) 451-3165 - Fax

CHAIN OF CUSTODY FORM
2001-05-0335

Lab: Chromalab SP303

Samplers: Trish Eliasson

Job Number: 53380.2

Name/Location: Housewines Market

Project Manager: Stephen Osborne

Recorder: Trish Eliasson
 (Signature Required)

SOURCE CODE	MATRIX				# CONTAINERS & PRESERV				SAMPLE NUMBER OR LAB NUMBER			DATE				STATION DESCRIPTION/ NOTES	
	Water	Sediment	Soil	Oil	Jars	HSC	FNC	HCL	Ice	Yr	Wk	Seq	Yr	Mo	Day		Time
	X				2							MW-3	01	05	17	0735	
	X				2							MW-2	01	05	17	0830	
	X				2							MW-1	01	05	17	0905	

ANALYSIS REQUESTED											
EPA 8010	EPA 8020	EPA 8260	EPA 8270	METALS	EPA 8015M/TPHG	EPA 8020/BTEX	EPA 8015M/TPHd.o	160.1 TDS	120.1 Sp Cond	9040 pH	300 Chloride
								X	X	X	
								X	X	X	
								X	X	X	

LAB NUMBER			DEPTH IN FEET	COL MTD CD	QA CODE	MISCELLANEOUS
Yr	Wk	Seq				
						Standard TAT

CHAIN OF CUSTODY RECORD			
RELINQUISHED BY: (Signature) <i>Trish Eliasson</i>	RECEIVED BY: (Signature) <i>Gary Cook</i>	DATE/TIME 5/17/01 1430	
RELINQUISHED BY: (Signature) <i>Gary Cook</i>	RECEIVED BY: (Signature) <i>Sam Miller</i>	DATE/TIME 5/17/01 15 ³¹	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME	
RELINQUISHED BY: (Signature)	RECEIVED BY: (Signature)	DATE/TIME	
DISPATCHED BY: (Signature)	DATE/TIME	RECEIVED FOR LAB BY: (Signature)	DATE/TIME
METHOD OF SHIPMENT			
SAMPLE CONDITION WHEN RECEIVED BY THE LABORATORY 3.5°			

Harding ESE, Inc.
600 Grand Ave, Suite 300
Oakland, CA 94607

Attn.: Mr. Stephen Osborne

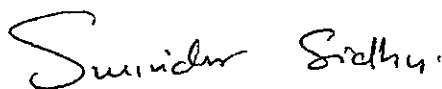
Project: 54032.1
Housewives Market

Dear Mr. Osborne,

Attached is our report for your samples received on Friday August 17, 2001
This report has been reviewed and approved for release. Reproduction of this report
is permitted only in its entirety.

Please note that any unused portion of the samples will be discarded after October 1, 2001
unless you have requested otherwise. We appreciate the opportunity to be of service to you.
If you have any questions, please call me at (925) 484-1919. You can also contact me via email.
My email address is: ssidhu@chromalab.com

Sincerely,



Surinder Sidhu

Volatile OrganicCompounds by 8260B

Harding ESE, Inc.	☒ 600 Grand Ave, Suite 300 Oakland, CA 94607
Attn: Stephen Osborne	Phone: (510) 628-3211 Fax: (510) 451-3165
Project #: 54032.1	Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	08/17/2001 11:50	1
GW-2	Water	08/17/2001 12:40	2
GW-3	Water	08/17/2001 14:00	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-08-0343

To: Harding ESE, Inc.

Test Method: 8260B

Attn.: Stephen Osborne

Prep Method: 5030B

Volatile Organic Compounds by 8260B

Sample ID: GW-1	Lab Sample ID: 2001-08-0343-001
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 11:50	Extracted: 08/22/2001 20:45
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MPEBE	ND	5.0	ug/L	1.00	08/22/2001 20:45	
Acetone	ND	50	ug/L	1.00	08/22/2001 20:45	
Benzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Bromodichloromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Bromobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Bromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Bromoform	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Bromomethane	ND	5.0	ug/L	1.00	08/22/2001 20:45	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/22/2001 20:45	
n-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
sec-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
tert-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Carbon disulfide	ND	5.0	ug/L	1.00	08/22/2001 20:45	
Carbon tetrachloride	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Chlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Chloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	08/22/2001 20:45	
Chloroform	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Chloromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
2-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
4-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Dibromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,3-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,4-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
2,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Dibromomethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1-Dichloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2-Dichloroethane	1.0	1.0	ug/L	1.00	08/22/2001 20:45	
1,1-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 20:45	

1220 Quarry Lane * Pleasanton, CA 94566-4756

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To: **Harding ESE, Inc.**
 Attn.: Stephen Osborne

Test Method: 8260B
 Prep Method: 5030B

Volatile Organic Compounds by 8260B

Sample ID: GW-1	Lab Sample ID: 2001-08-0343-001
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 11:50	Extracted: 08/22/2001 20:45
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
trans-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
cis-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
trans-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Ethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
2-Hexanone	ND	50	ug/L	1.00	08/22/2001 20:45	
Isopropylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Methylene chloride	ND	5.0	ug/L	1.00	08/22/2001 20:45	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/22/2001 20:45	
Naphthalene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
n-Propylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Styrene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Tetrachloroethene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Toluene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1,1-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,1,2-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Trichloroethene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Trichlorotrifluoroethane	ND	5.0	ug/L	1.00	08/22/2001 20:45	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Vinyl acetate	ND	25	ug/L	1.00	08/22/2001 20:45	
Vinyl chloride	ND	1.0	ug/L	1.00	08/22/2001 20:45	
Total xylenes	ND	1.0	ug/L	1.00	08/22/2001 20:45	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene	108.0	86-115	%	1.00	08/22/2001 20:45	
1,2-Dichloroethane-d4	90.1	76-114	%	1.00	08/22/2001 20:45	
Toluene-d8	107.7	88-110	%	1.00	08/22/2001 20:45	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-08-0343

To: Harding ESE, Inc.

Test Method: 8260B

Attn.: Stephen Osborne

Prep Method: 5030B

Volatile Organic Compounds by 8260B

Sample ID: GW-2	Lab Sample ID: 2001-08-0343-002
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 12:40	Extracted: 08/22/2001 21:11
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MIBE	ND	5.0	ug/L	1.00	08/22/2001 21:11	
Acetone	ND	50	ug/L	1.00	08/22/2001 21:11	
Benzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Bromodichloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Bromobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Bromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Bromoform	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Bromomethane	ND	5.0	ug/L	1.00	08/22/2001 21:11	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/22/2001 21:11	
n-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
sec-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
tert-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Carbon disulfide	ND	5.0	ug/L	1.00	08/22/2001 21:11	
Carbon tetrachloride	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Chlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Chloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	08/22/2001 21:11	
Chloroform	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Chloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
2-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
4-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Dibromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,3-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,4-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
2,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Dibromomethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1-Dichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2-Dichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:11	

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To: **Harding ESE, Inc.**

Test Method: 8260B

Attn.: Stephen Osborne

Prep Method: 5030B

Volatile OrganicCompounds by 8260B

Sample ID: GW-2	Lab Sample ID: 2001-08-0343-002
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 12:40	Extracted: 08/22/2001 21:11
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
trans-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
cis-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
trans-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Ethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
2-Hexanone	ND	50	ug/L	1.00	08/22/2001 21:11	
Isopropylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Methylene chloride	ND	5.0	ug/L	1.00	08/22/2001 21:11	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/22/2001 21:11	
Naphthalene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
n-Propylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Styrene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Tetrachloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Toluene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1,1-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,1,2-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Trichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Trichlorotrifluoroethane	ND	5.0	ug/L	1.00	08/22/2001 21:11	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Vinyl acetate	ND	25	ug/L	1.00	08/22/2001 21:11	
Vinyl chloride	ND	1.0	ug/L	1.00	08/22/2001 21:11	
Total xylenes	ND	1.0	ug/L	1.00	08/22/2001 21:11	
<i>Surrogate(s)</i>						
4-Bromofluorobenzene	102.3	86-115	%	1.00	08/22/2001 21:11	
1,2-Dichloroethane-d4	98.1	76-114	%	1.00	08/22/2001 21:11	
Toluene-d8	105.2	88-110	%	1.00	08/22/2001 21:11	

To: **Harding ESE, Inc.**

Test Method: 8260B

Attn.: Stephen Osborne

Prep Method: 5030B

Volatile Organic Compounds by 8260B

Sample ID: GW-3	Lab Sample ID: 2001-08-0343-003
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 14:00	Extracted: 08/22/2001 21:37
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
MIBK	ND	5.0	ug/L	1.00	08/22/2001 21:37	
Acetone	ND	50	ug/L	1.00	08/22/2001 21:37	
Benzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Bromodichloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Bromobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Bromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Bromoform	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Bromomethane	ND	5.0	ug/L	1.00	08/22/2001 21:37	
2-Butanone(MEK)	ND	50	ug/L	1.00	08/22/2001 21:37	
n-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
sec-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
tert-Butylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Carbon disulfide	ND	5.0	ug/L	1.00	08/22/2001 21:37	
Carbon tetrachloride	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Chlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Chloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
2-Chloroethylvinyl ether	ND	5.0	ug/L	1.00	08/22/2001 21:37	
Chloroform	1.6	1.0	ug/L	1.00	08/22/2001 21:37	
Chloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
2-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
4-Chlorotoluene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Dibromochloromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,3-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,4-Dichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,3-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
2,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Dibromomethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Dichlorodifluoromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1-Dichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2-Dichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
cis-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:37	

1220 Quarry Lane * Pleasanton, CA 94566-4756

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To: **Harding ESE, Inc.**
 Attn.: Stephen Osborne

Test Method: 8260B
 Prep Method: 5030B

Volatile Organic Compounds by 8260B

Sample ID: GW-3	Lab Sample ID: 2001-08-0343-003
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 14:00	Extracted: 08/22/2001 21:37
Matrix: Water	QC-Batch: 2001/08/22-01.07

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
trans-1,2-Dichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2-Dichloropropane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
cis-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
trans-1,3-Dichloropropene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Ethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Hexachlorobutadiene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
2-Hexanone	ND	50	ug/L	1.00	08/22/2001 21:37	
Isopropylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
p-Isopropyltoluene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Methylene chloride	ND	5.0	ug/L	1.00	08/22/2001 21:37	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	1.00	08/22/2001 21:37	
Naphthalene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
n-Propylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Styrene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Tetrachloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Toluene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1,1-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,1,2-Trichloroethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Trichloroethene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Trichlorofluoromethane	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Trichlorotrifluoroethane	ND	5.0	ug/L	1.00	08/22/2001 21:37	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Vinyl acetate	ND	25	ug/L	1.00	08/22/2001 21:37	
Vinyl chloride	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Total xylenes	ND	1.0	ug/L	1.00	08/22/2001 21:37	
Surrogate(s)						
4-Bromofluorobenzene	101.7	86-115	%	1.00	08/22/2001 21:37	
1,2-Dichloroethane-d4	95.8	76-114	%	1.00	08/22/2001 21:37	
Toluene-d8	108.3	88-110	%	1.00	08/22/2001 21:37	

To: Harding ESE, Inc.

Test Method: 8260B

Attn.: Stephen Osborne

Prep Method: 5030B

Batch QC Report

Volatile OrganicCompounds by 8260B

Method Blank	Water	QC Batch # 2001/08/22-01.07
MB: 2001/08/22-01.07-005		Date Extracted: 08/22/2001 14:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
MTBE	ND	5.0	ug/L	08/22/2001 14:32	
Acetone	ND	50	ug/L	08/22/2001 14:32	
Benzene	ND	1.0	ug/L	08/22/2001 14:32	
Bromodichloromethane	ND	1.0	ug/L	08/22/2001 14:32	
Bromobenzene	ND	1.0	ug/L	08/22/2001 14:32	
Bromochloromethane	ND	1.0	ug/L	08/22/2001 14:32	
Bromoform	ND	1.0	ug/L	08/22/2001 14:32	
Bromomethane	ND	5.0	ug/L	08/22/2001 14:32	
2-Butanone(MEK)	ND	50	ug/L	08/22/2001 14:32	
n-Butylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
sec-Butylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
tert-Butylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
Carbon disulfide	ND	5.0	ug/L	08/22/2001 14:32	
Carbon tetrachloride	ND	1.0	ug/L	08/22/2001 14:32	
Chlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
Chloroethane	ND	1.0	ug/L	08/22/2001 14:32	
2-Chloroethylvinyl ether	ND	5.0	ug/L	08/22/2001 14:32	
Chloroform	ND	1.0	ug/L	08/22/2001 14:32	
Chloromethane	ND	1.0	ug/L	08/22/2001 14:32	
2-Chlorotoluene	ND	1.0	ug/L	08/22/2001 14:32	
4-Chlorotoluene	ND	1.0	ug/L	08/22/2001 14:32	
Dibromochloromethane	ND	1.0	ug/L	08/22/2001 14:32	
1,2-Dichlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,3-Dichlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,4-Dichlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,3-Dichloropropane	ND	1.0	ug/L	08/22/2001 14:32	
2,2-Dichloropropane	ND	1.0	ug/L	08/22/2001 14:32	
1,1-Dichloropropene	ND	1.0	ug/L	08/22/2001 14:32	
1,2-Dibromo-3-chloropropane	ND	1.0	ug/L	08/22/2001 14:32	
1,2-Dibromoethane (EDB)	ND	1.0	ug/L	08/22/2001 14:32	
Dibromomethane	ND	1.0	ug/L	08/22/2001 14:32	
Dichlorodifluoromethane	ND	1.0	ug/L	08/22/2001 14:32	
1,1-Dichloroethane	ND	1.0	ug/L	08/22/2001 14:32	
1,2-Dichloroethane	ND	1.0	ug/L	08/22/2001 14:32	
1,1-Dichloroethene	ND	1.0	ug/L	08/22/2001 14:32	
cis-1,2-Dichloroethene	ND	1.0	ug/L	08/22/2001 14:32	
trans-1,2-Dichloroethene	ND	1.0	ug/L	08/22/2001 14:32	
1,2-Dichloropropane	ND	1.0	ug/L	08/22/2001 14:32	
cis-1,3-Dichloropropene	ND	1.0	ug/L	08/22/2001 14:32	
trans-1,3-Dichloropropene	ND	1.0	ug/L	08/22/2001 14:32	
Ethylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
Hexachlorobutadiene	ND	1.0	ug/L	08/22/2001 14:32	
2-Hexanone	ND	50	ug/L	08/22/2001 14:32	

1220 Quarry Lane * Pleasanton, CA 94566-4756

Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding ESE, Inc.**
 Attn.: Stephen Osborne

Test Method: 8260B
 Prep Method: 5030B

Batch QC Report
 Volatile Organic Compounds by 8260B

Method Blank	Water	QC Batch # 2001/08/22-01.07
MB: 2001/08/22-01.07-005		Date Extracted: 08/22/2001 14:32

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Isopropylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
p-Isopropyltoluene	ND	1.0	ug/L	08/22/2001 14:32	
Methylene chloride	ND	5.0	ug/L	08/22/2001 14:32	
4-Methyl-2-pentanone (MIBK)	ND	50	ug/L	08/22/2001 14:32	
Naphthalene	ND	1.0	ug/L	08/22/2001 14:32	
n-Propylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
Styrene	ND	1.0	ug/L	08/22/2001 14:32	
1,1,1,2-Tetrachloroethane	ND	1.0	ug/L	08/22/2001 14:32	
1,1,2,2-Tetrachloroethane	ND	1.0	ug/L	08/22/2001 14:32	
Tetrachloroethene	ND	1.0	ug/L	08/22/2001 14:32	
Toluene	ND	1.0	ug/L	08/22/2001 14:32	
1,2,3-Trichlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,2,4-Trichlorobenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,1,1-Trichloroethane	ND	1.0	ug/L	08/22/2001 14:32	
1,1,2-Trichloroethane	ND	1.0	ug/L	08/22/2001 14:32	
Trichloroethene	ND	1.0	ug/L	08/22/2001 14:32	
Trichlorofluoromethane	ND	1.0	ug/L	08/22/2001 14:32	
Trichlorotrifluoroethane	ND	5.0	ug/L	08/22/2001 14:32	
1,2,4-Trimethylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
1,3,5-Trimethylbenzene	ND	1.0	ug/L	08/22/2001 14:32	
Vinyl acetate	ND	25	ug/L	08/22/2001 14:32	
Vinyl chloride	ND	1.0	ug/L	08/22/2001 14:32	
Total xylenes	ND	1.0	ug/L	08/22/2001 14:32	
Surrogate(s)					
4-Bromofluorobenzene	97.6	86-115	%	08/22/2001 14:32	
1,2-Dichloroethane-d4	91.2	76-114	%	08/22/2001 14:32	
Toluene-d8	105.8	88-110	%	08/22/2001 14:32	

To: Harding ESE, Inc.

Test Method: 8260B

Attn: Stephen Osborne

Prep Method: 5030B

Batch QC Report

Volatile OrganicCompounds by 8260B

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/08/22-01.07	
LCS:	2001/08/22-01.07-008	Extracted:	08/22/2001 15:54	Analyzed	08/22/2001 15:54
LCSD:	2001/08/22-01.07-010	Extracted:	08/22/2001 16:51	Analyzed	08/22/2001 16:51

Compound	Conc. [ug/L]		Exp.Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Benzene	39.3	40.3	50.0	50.0	78.6	80.6	2.5	69-129	20		
Chlorobenzene	35.8	36.5	50.0	50.0	71.6	73.0	1.9	61-121	20		
1,1-Dichloroethene	46.4	43.4	50.0	50.0	92.8	86.8	6.7	65-125	20		
Toluene	42.6	42.6	50.0	50.0	85.2	85.2	0.0	70-130	20		
Trichloroethene	41.8	43.8	50.0	50.0	83.6	87.6	4.7	74-134	20		
Surrogate(s)											
4-Bromofluorobenzene	516	501	500	500	103.2	100.2		86-115			
1,2-Dichloroethane-d4	459	468	500	500	91.8	93.6		76-114			
Toluene-d8	537	521	500	500	107.4	104.2		88-110			

Diesel

Harding ESE, Inc.

✉ 600 Grand Ave, Suite 300
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 54032.1

Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	08/17/2001 11:50	1
GW-2	Water	08/17/2001 12:40	2
GW-3	Water	08/17/2001 14:00	3

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-08-0343

To: Harding ESE, Inc.
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID: GW-1	Lab Sample ID: 2001-08-0343-001
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 11:50	Extracted: 08/20/2001 11:44
Matrix: Water	QC-Batch: 2001/08/20-01.10
Sample/Analysis Flag rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	240	74	ug/L	1.47	08/20/2001 23:11	ndp
Surrogate(s) o-Terphenyl	87.6	60-130	%	1.47	08/20/2001 23:11	

To: **Harding ESE, Inc.**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Diesel

Sample ID: GW-2	Lab Sample ID: 2001-08-0343-002
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 12:40	Extracted: 08/20/2001 11:44
Matrix: Water	QC-Batch: 2001/08/20-01.10
Sample/Analysis Flag rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	120	59	ug/L	1.18	08/21/2001	ndp
Surrogate(s) o-Terphenyl	82.2	60-130	%	1.18	08/21/2001	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-08-0343

To: Harding ESE, Inc.

Test Method: 8015M

Attn.: Stephen Osborne

Prep Method: 3510/8015M

Diesel

Sample ID: GW-3	Lab Sample ID: 2001-08-0343-003
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 14:00	Extracted: 08/20/2001 11:44
Matrix: Water	QC-Batch: 2001/08/20-01.10
Sample/Analysis Flag rl (See Legend & Note section)	

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Diesel	180	74	ug/L	1.47	08/20/2001 21:21	ndp
Surrogate(s) o-Terphenyl	96.0	60-130	%	1.47	08/20/2001 21:21	

To: **Harding ESE, Inc.**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Batch QC Report
Diesel

Method Blank	Water	QC Batch # 2001/08/20-01.10
MB: 2001/08/20-01.10-001		Date Extracted: 08/20/2001 11:44

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Diesel	ND	50	ug/L	08/20/2001 22:36	
<i>Surrogate(s)</i> o-Terphenyl	98.5	60-130	%	08/20/2001 22:36	

To: Harding ESE, Inc.

Test Method: 8015M

Attn: Stephen Osborne

Prep Method: 3510/8015M

Batch QC Report

Diesel

Laboratory Control Spike (LCS/LCSD)	Water	QC Batch # 2001/08/20-01.10
LCS: 2001/08/20-01.10-002	Extracted: 08/20/2001 11:44	Analyzed 08/20/2001 23:14
LCSD: 2001/08/20-01.10-003	Extracted: 08/20/2001 11:44	Analyzed 08/20/2001 23:51

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD [%]	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Diesel	1040	1050	1250	1250	83.2	84.0	1.0	60-130	25		
Surrogate(s) o-Terphenyl	20.5	20.4	20.0	20.0	102.5	102.0		60-130			

To: **Harding ESE, Inc.**
Attn: Stephen Osborne

Test Method: 8015M
Prep Method: 3510/8015M

Legend & Notes

Diesel

Analysis Flags

rl

Reporting limits raised due to reduced sample size.

Analyte Flags

ndp

Hydrocarbon reported does not match the pattern of our Diesel standard

Gasoline

Harding ESE, Inc.

✉ 600 Grand Ave, Suite 300
Oakland, CA 94607

Attn: Stephen Osborne

Phone: (510) 628-3211 Fax: (510) 451-3165

Project #: 54032.1

Project: Housewives Market

Samples Reported

Sample ID	Matrix	Date Sampled	Lab #
GW-1	Water	08/17/2001 11:50	1
GW-2	Water	08/17/2001 12:40	2
GW-3	Water	08/17/2001 14:00	3

To: **Harding ESE, Inc.**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 5030

Gasoline

Sample ID: GW-1	Lab Sample ID: 2001-08-0343-001
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 11:50	Extracted: 08/24/2001 12:09
Matrix: Water	QC-Batch: 2001/08/24-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	50	50	ug/L	1.00	08/24/2001 12:09	g
<i>Surrogate(s)</i> 4-Bromofluorobenzene-FID	97.9	50-150	%	1.00	08/24/2001 12:09	

To: **Harding ESE, Inc.**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 5030

Gasoline

Sample ID: GW-2	Lab Sample ID: 2001-08-0343-002
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 12:40	Extracted: 08/24/2001 12:39
Matrix: Water	QC-Batch: 2001/08/24-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/24/2001 12:39	
Surrogate(s) 4-Bromofluorobenzene-FID	94.2	50-150	%	1.00	08/24/2001 12:39	

To: **Harding ESE, Inc.**
Attn.: Stephen Osborne

Test Method: 8015M
Prep Method: 5030

Gasoline

Sample ID: GW-3	Lab Sample ID: 2001-08-0343-003
Project: 54032.1 Housewives Market	Received: 08/17/2001 17:35
Sampled: 08/17/2001 14:00	Extracted: 08/24/2001 13:09
Matrix: Water	QC-Batch: 2001/08/24-01.01

Compound	Result	Rep.Limit	Units	Dilution	Analyzed	Flag
Gasoline	ND	50	ug/L	1.00	08/24/2001 13:09	
Surrogate(s) 4-Bromofluorobenzene-FID	82.2	50-150	%	1.00	08/24/2001 13:09	

STL ChromaLab

Environmental Services (CA 1094)

Submission #: 2001-08-0343

To: Harding ESE, Inc.

Test Method: 8015M
8021B

Attn.: Stephen Osborne

Prep Method: 5030

Batch QC Report Gasoline

Method Blank	Water	QC Batch # 2001/08/24-01.01
MB: 2001/08/24-01.01-003		Date Extracted: 08/24/2001 08:22

Compound	Result	Rep.Limit	Units	Analyzed	Flag
Gasoline	ND	50	ug/L	08/24/2001 08:22	
Surrogate(s) 4-Bromofluorobenzene-FID	87.8	50-150	%	08/24/2001 08:22	

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Telephone (925) 484-1919 * Facsimile (925) 484-1096

To: **Harding ESE, Inc.**

Test Method: 8015M

Attn: Stephen Osborne

Prep Method: 5030

Batch QC Report

Gasoline

Laboratory Control Spike (LCS/LCSD)		Water		QC Batch # 2001/08/24-01.01	
LCS:	2001/08/24-01.01-006	Extracted:	08/24/2001 09:53	Analyzed	08/24/2001 09:53
LCSD:	2001/08/24-01.01-007	Extracted:	08/24/2001 10:23	Analyzed	08/24/2001 10:23

Compound	Conc. [ug/L]		Exp. Conc. [ug/L]		Recovery [%]		RPD	Ctrl. Limits [%]		Flags	
	LCS	LCSD	LCS	LCSD	LCS	LCSD		Recovery	RPD	LCS	LCSD
Gasoline	478	500	500	500	95.6	100.0	4.5	75-125	20		
Surrogate(s)											
4-Bromofluorobenzene-Fl	391	405	500	500	78.2	81.0		50-150			