THIRD QUARTER 1995 GROUND WATER MONITORING REPORT S&S BUILDING SUPPLY SAN LEANDRO, CALIFORNIA

LOWNEYASSOCIATES

Environmental/G eotechnical/Engineering Services



September 25, 1995 1063-1, MV092504

Mr. Bob Gardner **S&S BUILDING SUPPLY** 701 Fremont Avenue San Leandro, California 94577 RE: THIRD QUARTER 1995
GROUND WATER
MONITORING REPORT
S&S BUILDING SUPPLY
SAN LEANDRO, CALIFORNIA

Dear Mr. Gardner:

In accordance with your request, we are pleased to present the third quarter 1995 ground water monitoring report for the referenced site, located at 701 Fremont Avenue in San Leandro, California.

To evaluate the ground water quality, ground water samples were collected from monitoring wells MW-1, MW-2, and MW-3 on April 28, 1995. Laboratory analysis of the ground water samples detected gasoline range petroleum hydrocarbons at concentrations ranging from 69 to 2,000 parts per billion. The concentrations have notably decreased in the three on-site monitoring wells compared to those detected during previous sampling events.

In addition, per the request of the Alameda County Water District, the top of casing elevations of monitoring wells MW-1, MW-2, and MW-3 were surveyed to a City of San Leandro benchmark located in the intersection of Floresta Boulevard and Del Monte Way.

We refer you to the text of the report for details regarding our investigation. If you have

any questions, please call.

Very truly yours,

LOWNEY ASSOCIATES

Stason I. Foster, P.E.

Associate

Environmental Engineer

Ron L. Helm, C.E.G.

Principal

Environmental Geologist

No. EG1808

Exp. 7-31-97

CERTIFIED ENGINEERING GEOLOGIST

TE OF CALL

RLH:SIF:BAF:tjc

Copies: Addressee (2)

Alameda County Department of Environmental Health (1)

No. 051495

Exp. 6-30-98

Attn: Mr. Scott Seery

▼ 405 Clyde Avenue, Mountain View, CA 94043-2209 (415) 967-2365 FAX (415) 967-2785 Mailing Address: P.O. Box 1388, Mountain View, CA 94042-1388

Mountain View Walnut Creek

THIRD QUARTER 1995 MONITORING REPORT
For
S&S BUILDING SUPPLY San Leandro, California
To
Mr. Bob Gardner S&S BUILDING SUPPLY 701 Fremont Avenue San Leandro, California 94577
September 1995

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THIRD QUARTER 1995 GROUND WATER MONITORING REPORT S&S BUILDING SUPPLY SAN LEANDRO, CALIFORNIA

1.0 INTRODUCTION

In this report, we present the results of the third quarter 1995 monitoring of ground water at 701 Fremont Avenue in San Leandro, California. The purpose of this work was to evaluate current ground water quality.

Two 1,000-gallon gasoline underground storage tanks (USTs) and dispenser island were formerly located on-site. During the removal of the USTs in 1989, two soil samples were collected from beneath the northern and southern ends of each UST. Laboratory analysis of soil samples collected from beneath the northern and southern ends of the westernmost UST detected petroleum hydrocarbons in the gasoline range (TPHg) at 2,300 parts per million (ppm) and 7,600 ppm, respectively. Laboratory analysis of soil samples collected from beneath the easternmost UST did not detect TPHg or benzene, ethylbenzene, toluene, or xylenes (BTEX) above the laboratory detection limits.

We understand that additional soil was removed from the UST excavation; however, it does not appear that any additional verification soil samples were collected. The excavation reportedly was extended to ground water at a depth of 10 to 12 feet. Analysis of five composite soil samples collected from the stockpiled soil after aeration did not detect TPHg or BTEX compounds. The stockpiled soil was subsequently used to backfill the excavation.

1.1 Purpose

1.2 Site Background

The scope of work performed during this investigation included the following:

- 1.3 Scope of Work
- ▼ Surveying of the top of casing elevations relative to mean sea level (msl) and measurement of the on-site ground water flow direction.
- ▼ Collection of ground water samples from on-site monitoring wells MW-1, MW-2, and MW-3.
- ▼ Laboratory analysis of the ground water samples collected.

2.0 GROUND WATER QUALITY INVESTIGATION

To evaluate current ground water quality, ground water samples from the three on-site wells were collected on August 15, 1995. The samples were analyzed for TPHg/BTEX (EPA Test Method 8015/8020). The analytical results are presented in Table 1. A discussion of well sampling protocol and copies of all laboratory reports are presented in Appendices A and B, respectively.

2.1 Ground Water Quality

TABLE 1. Analytical Results for Ground Water Samples (concentrations in parts per billion)

Well Number	Date Sampled	ТРНд	Benzene	Toluene	Ethylbenzene	Xylenes
MW-1	11/03/94	35,000	<25	<25	140	430
	01/25/95	4,100	22	9.4	25	71
	04/2//95	3,600	9.6	7.0	39	120
	08/15/95	1,300	15	<5.0	46	90

continued



TABLE 1. Analytical Results for Ground Water Samples (concentrations in parts per billion) (continued)

Well Number	Date Sampled	ТРНд	Benzene	Toluene	Ethylbenzene	Xylenes
MW-2	11/03/94	1,200	<2.5	<2.5	<2.5	<2.5
	01/25/95	330	<0.50	<0.50	<0.50	<0.50
	04/28/95	220	1.8	<0.50	0.58	4.2
	08/15/95	69	<0.50	<0.50	<0.50	<0.50
MW-3	11/03/94	2,400	4.2	<2.0	40	43
	11/03/94*	3,000	5.6	<2.0	39	44
	01/25/95	2,800	27	<5.0	110	150
	04/28/95	6,500	12	11	300	410
	08/15/95	2,000	9.9	<5.0	64	45
Drinking V Standards		NE	1.0	1,000	680	1,750

⁻ U.S. Environmental Protection Agency, "Drinking Water Standards and Health Advisory Table", August 1991

To evaluate the ground water flow direction at the site, the top of casing elevation of each well was surveyed relative to mean sea level. Surveying protocols are discussed in Appendix A. The static ground water levels in monitoring wells MW-1, MW-2, and MW-3 were then measured using an electronic depth sounder. The ground water and top of casing elevations are presented in Table 2. As shown on Figure 3, the ground water flow direction beneath the site is towards the south, which is consistent with the previous measurements.

2.2 Ground Water Flow

Compound not detected above the specified laboratory detection limit.

 ⁻Split Sample

NE -Not Established

TABLE 2.	Ground Water and Top of Casing Elevations
	(measurements in feet)

Well Number	Date	Top of Casing Elevation	Ground Water Depth•	Ground Water Elevation
MW-1	11/03/94	100.05*	15.46	84.59
	01/25/95		12.21	87.84
	04/28/95		11.07	88.98
	08/15/95	33.90**	12.43	21.47
MW-2	11/03/94	100.00*	15.29	84.71
	01/25/95		12.06	87. 94
	04/28/95		10.86	89.14
	08/15/95	33.85**	12.22	21.63
MW-3	11/03/94	99.58*	14.96	84.62
-	01/25/95		11.75	87.83
	04/28/95		10.59	88.99
	08/15/95	33.43**	11.96	21.47

^{*} Relative top of casing elevation

3.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of this investigation was to evaluate the current ground water quality in the existing on-site monitoring wells.

Laboratory analysis of the ground water samples collected from the on-site monitoring wells detected gasoline range petroleum hydrocarbons ranging from 69 to 2,000 ppb. The concentrations have notably decreased in the three on-site monitoring wells compared to those detected during previous sampling events.

In our opinion, a continued decrease in petroleum hydrocarbon concentrations would be expected due to natural degradation and attenuation processes.

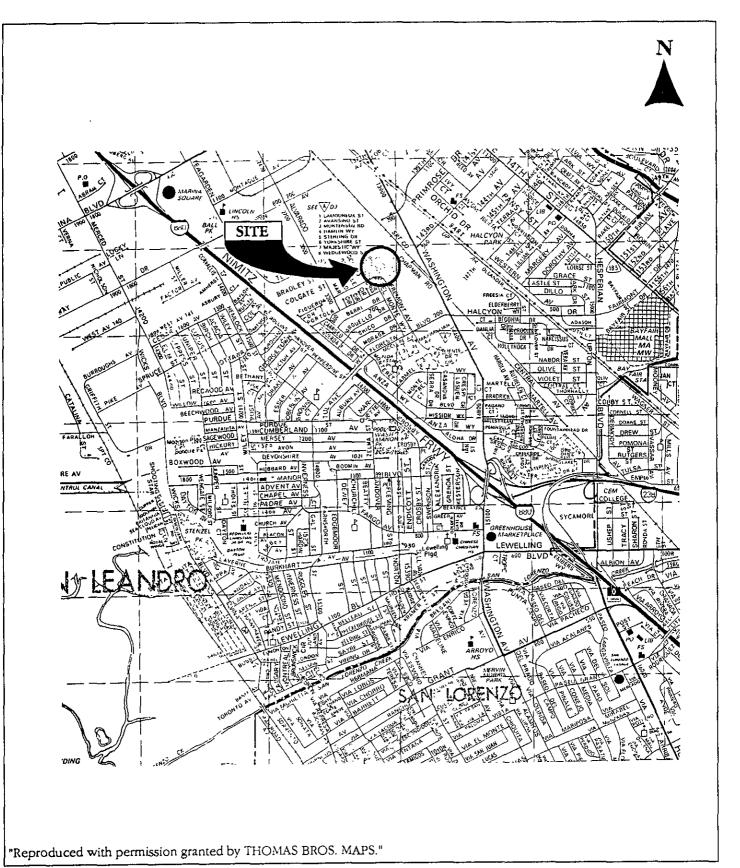
^{**} Surveyed to City of San Leandro benchmark located in the intersection of Floresta Boulevard and Del Monte Way (Elevation = 32.403 feet above mean sea level).

Measured from top of casing

Based on the results of the past four consecutive sampling events, a decrease in sampling frequency from quarterly to semi-annually is justified and, in our opinion, would be sufficient to evaluate changes in ground water quality over time.

4.0 LIMITATIONS

This report was prepared for the use of S&S Building Supply in evaluating ground water quality at the referenced site at the time of this study. We make no warranty, expressed or implied, except that our services have been performed in accordance with environmental principles generally accepted at this time and location. The chemical and other data presented in this report can change over time and are applicable only to the time this study was performed.

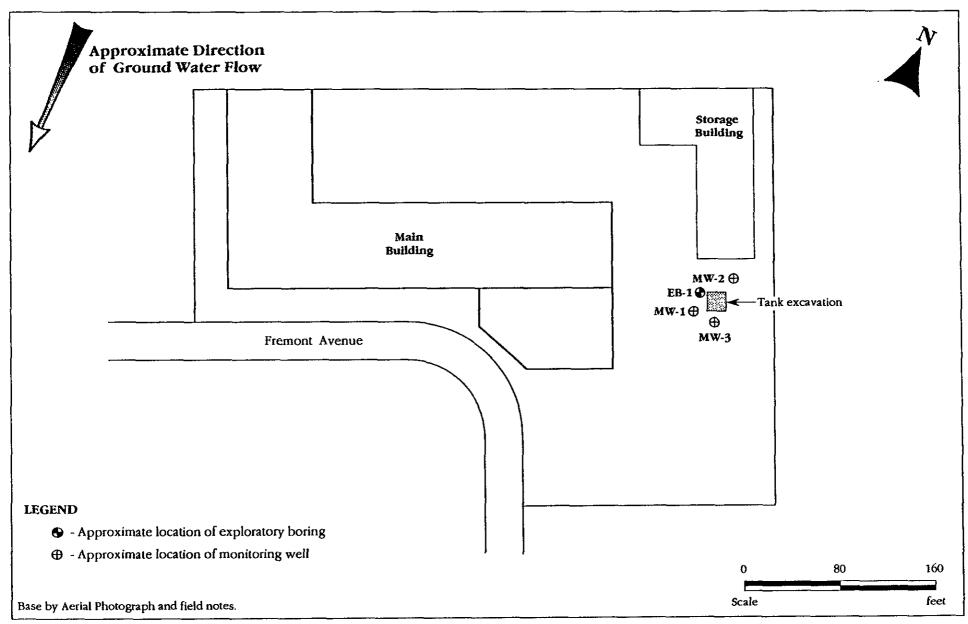


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VICINITY MAP

S & S BUILDING SUPPLY San Leandro, California

LOVNEYASSOCIATES Environmental/Geotechnical/Engineering Services

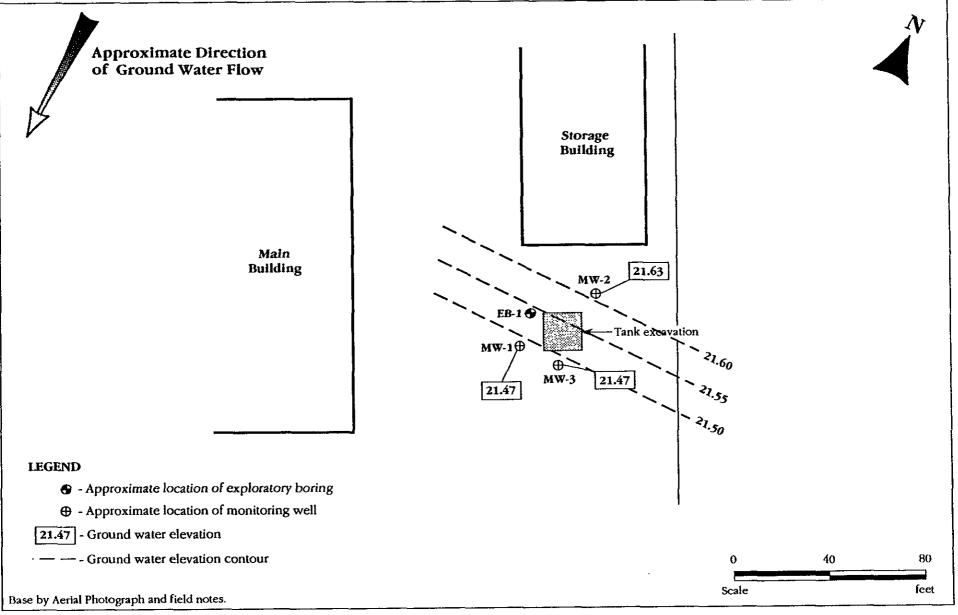


1063-1, 9/95 BAF*EB

SITE PLAN

S & S BUILDING SUPPLY San Leandro, California



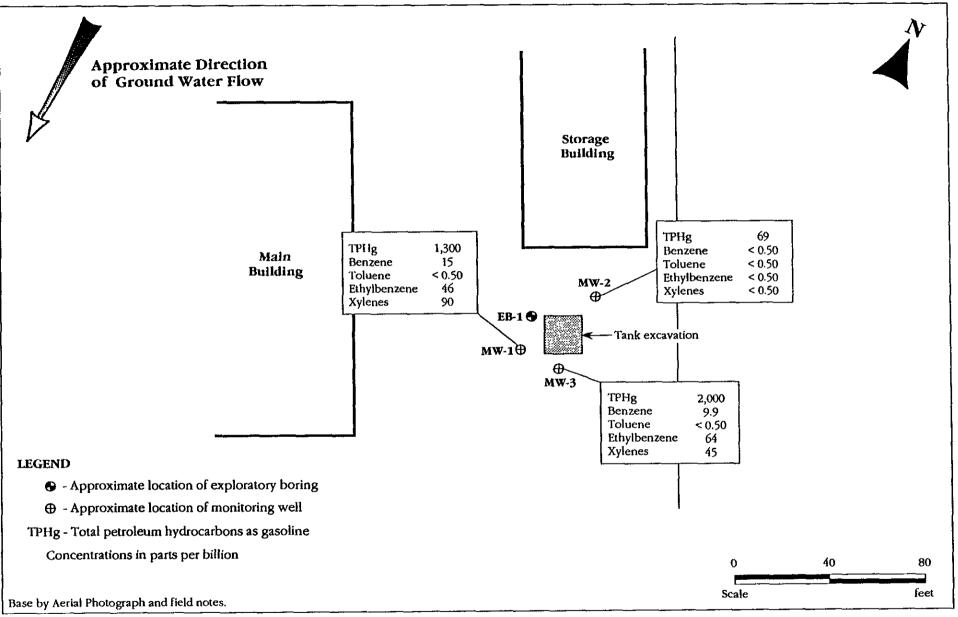


1063-1, 9/95 BAF*EB

GROUND WATER ELEVATION MAP

S & S BUILDING SUPPLY San Leandro, California





1063-1,9/95BAF*EB

ANALYTICAL RESULTS FOR GROUND WATER SAMPLES

S & S BUILDING SUPPLY San Leandro, California



APPENDIX A

WELL SAMPLING AND SURVEYING PROTOCOL AND RECORDS

A Teflon bailer was used to purge a minimum of four well casing volumes of water from each well. After purging each well volume, pH, temperature, and conductivity measurements were recorded. In general, these measurements stabilize after three to four well volumes. If, after the fourth well volume the pH and conductivity did not stabilize, additional well volumes were removed until these measurements did stabilize. If the yield was low and the well was pumped dry, the well was allowed to recharge to 80 percent of the initial water level before sampling. Samples were collected in appropriate sample bottles, labeled, and immediately placed into an ice-cooled chest for delivery to a state certified analytical laboratory for analysis.

Ground Water Sampling

All well sampling equipment was cleaned with an aqueous tri-sodium phosphate solution and distilled water or steam cleaned prior to entering each well.

Equipment Decontamination

Well development and sampling records are attached.

To evaluate ground water flow direction, the lateral locations of the wells were established using a metered wheel. The top of casing elevations of the monitoring wells were then surveyed by a two-person crew using a Leitz level and an engineer's graduated rod to a City of San Leandro benchmark located in the intersection of Floresta Boulevard and Del Monte Way (Elevation = 32.403 feet above mean sea level).

Surveying

LOVNEYASSOCIATES RECORD OF WELL DEVELOPMENT/SAMPLING

Project Number 1003-1	
Project Name 545 13610ion	
Field Geologist/Engineer	
Well Number Well Total Depth (completed) Z5 (feet)	Boring Diameter (inches) Casing Diameter (inches)
Development Date Method	
WELL VOLUME CONVERSI	ON FACTORS
2-INCH CASING DIAMETER	4-INCH CASING DIAMETER
VOL (GALLONS) = FEET OF WATER x 0.17 VOL (LITERS) = FEET OF WATER x 0.62	VOL (GALLONS) = FEET OF WATER x 0.66 VOL (LITERS) = FEET OF WATER x 2.5
Sampling Date 8 15 95 Time 4:00	Method Tefion Dailer
Static Water Level Prior to Purging 17.43 (Measured from top of casing) H ₇ H ₂ O : /2.57 Well Volume 7.8 (liter/gal)	Water Level After Recovery /2.42 (ft) /4.9 80 Percent Recharged Yes No
Three Well Volumes 31. 2 (liter/gal)	Well ph Conductivity Temp Volumes µSx10 °F
Total Produced 37 (liter/gal)	1 7.9 18 66
Number of Well Volumes	2 7.8 8 66
· Production Time (min)	3 7.7 5 67
Production Rate (_/min)	4 7.7 3 67
	6
Sample Description Mw-/	7
	8
,	9
Deliver Pick-Up Date 8-15-95	10
Comments	

LOWNEYASSOCIATES RECORD OF WELL DEVELOPMENT/SAMPLING

Tarija i i

Project Number	1063-1				
Project Name	5+5 1361lows				
Field Geologist/Engineer	CAF				
Well Number	_ MW-Z	Boring	g Diameter		(inches)
Well Total Depth (complete	ed) <u>25</u> (feet)	Casing	g Diameter		(inches)
Development Date	Method	Volume	Produced		(liter/gal)
	WEIL VOLUME CONVER	SION FACTOR	ıs	<u> </u>	
2-INCH CASING DIAME	TER	4-IN	CH CASINO	DIAMETER	
VOL (GALLONS) = FEET VOL (LITERS) = FEET O) = FEET OF WAT FEET OF WATER	
<u> </u>	$\frac{5.75}{\text{Time}} = \frac{3.00}{3.00}$ urging $\frac{12.22}{4.40 = 12.78}$ (ft)			Teflow 13	
Well Volume	$\frac{18}{7.9} \frac{H_{2}H_{2}S = 12.78}{\text{(liter/gal)}}$	14.8 80 Percen	t Recharge	d Yes 🎹	No 🗌
Three Well Volumes	31,7 (liter/gal)	Well Volumes	ph	Conductivity µSx10	Temp *F
Total Produced	3Z (liter/gal)	ı	7,4	35	C-8
Number of Well Volumes	4	2	7,4	25	47
· Production Time	(min)	3	7.4	71	క్ర
Production Rate	(_/min)	4	7.4	70	८८
		5			
		6			
Sample Description		- 7			
Laboratory	SEQUOIA	. 8			
Deliver Pick-Up	Date <u>8-15-95</u>	. 10			
Comments	• .				

LOVNEYASSOCIATES RECORD OF WELL DEVELOPMENT/SAMPLING

Project Number 1063-1	
Project Name 5 \$ 5 13 wilows	
Field Geologist/Engineer	
Well Number $ \frac{M\omega - 3}{25} $ Well Total Depth (completed) $ \frac{25}{25} $ (feet)	Boring Diameter (inches) Casing Diameter (inches)
Development Date Method	Volume Produced(liter/gal)
WELL VOLUME CONVERSI	ON FACTORS
2-INCH CASING DIAMETER	4-INCH CASING DIAMETER
VOL (GALLONS) = FEET OF WATER x 0.17 VOL (LITERS) = FEET OF WATER x 0.62	VOL (GALLONS) = FEET OF WATER x 0.66 VOL (LITERS) = FEET OF WATER x 2.5
Sampling Date $8-15.95$ Time $5:00$ Static Water Level Prior to Purging 11.96 (ft) (Measured from top of casing) $(4/420 = 13.04)$ Well Volume 8.1 (liter/gal) Three Well Volumes 32.3 (liter/gal)	Water Level After Recovery /1.99 (ft) /4.4 80 Percent Recharged Yes No Well ph Conductivity Temp Volumes US 10 F
Total Produced 33 (liter/gal)	Volumes μSx10 'F 1 7.8 23 49
Number of Well Volumes	2 7.5 16 67
Production Time (min)	3 7.5 12 48
	4 7.5 14 68
Production Rate (_/min)	5
. "Z	6
Sample Description MW-3 Laboratory SEQUOIA	8
Laboratory	9
Deliver Pick-Up Date 8-15-95	10
Comments	

APPENDIX B ANALYTICAL RESULTS

The chilled samples were delivered to a state certified analytical laboratory. Chain of custody documentation was maintained for all samples. Attached are copies of the analytical results and chain of custody forms.



680 Chesapeake Drive 404 N Wiget Lane 819 Striker Avenue, Suite 8 Sacramento, CA 95834

Redwood City, CA 94063 Walnut Creek, CA 94598 (415) 364-9600 (510) 988-9600 (916) 921-9600

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FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Lowney Associates 1600 S. Main St, Ste 125 Walnut Creek, CA 94596 Attention: Brock Foster

Client Project ID: Sample Matrix:

First Sample #:

The same of the sa

S&S Building Supply; #1063-1

Water

Analysis Method: EPA 5030/8015 Mod./8020

508-0911

Sampled: Aug 15, 1995 Received: Aug 15, 1995

Reported: Aug 29, 1995

QC Batch Number:

Maria de C

GC082695

GC082695

GC082895

802004A 802005A TOTAL PURGEABLE PETROLEUM HYDROCARBONS with BTEX DISTINCTION

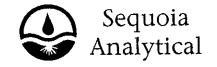
Analyte	Reporting Limit μg/L	Sample I.D. 508-0911 MW-2	Sample I.D. 508-0912 MW-3	Sample I.D. 508-0913 MW-1	
Purgeable Hydrocarbons	50	69	2,000	1,300	
Benzene	0.50	N.D.	9.9	15	DECEIVER
Toluene	0.50	N.D.	N.D.	N.D.	SEP 0 5 1995
Ethyl Benzene	0.50	N.D.	64	46	Ву
Total Xylenes	0.50	N.D.	45	90	
Chromatogram Pat	tern:	Gasoline	Gasoline	Gasoline	
Quality Control Da	ıta				

Report Limit Multiplication Factor:	1.0	10	10
Date Analyzed:	8/26/95	8/26/95	8/28/95
Instrument Identification:	HP-4	HP-4	HP-5
Surrogate Recovery, %: (QC Limits = 70-130%)	86	80	85

Purgeable Hydrocarbons are quantitated against a fresh gasoline standard. Analytes reported as N.D. were not detected above the stated reporting limit.

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook Project Manager



680 Chesapeake Drive 404 N. Wiget Lane 819 Striker Avenue, Suite 8

Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Lowney Associates 1600 S. Main St, Ste 125 Walnut Creek, CA 94596 Attention: Brock Foster Client Project ID: S&S Building Supply; #1063-1

CONTROL OF TAXABLE PROPERTY OF CONTROL OF THE CONTR

Matrix: Liquid

QC Sample Group: 5080911-913

Reported:

Aug 29, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes
,			Benzene	•
QC Batch#:	GC082695	GC082695	GC082695	GC082695
}	802004A	802004A	802004A	802004A
Analy. Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020
Prep. Method:	•	-	-	-
Analyst:	M. Creusere	M. Creusere	M. Creusere	M. Creusere
MS/MSD #:	5080896	5080896	5080896	5080896
Sample Conc.:	N.D.	N.D.	N.D.	N.D.
Prepared Date:	8/26/95	8/26/95	8/26/95	8/26/95
Analyzed Date:	8/26/95	8/26/95	8/26/95	8/26/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L
Result:	20	21	21	64
MS % Recovery:	100	105	105	107
Dup. Result:	20	20	21	64
MSD % Recov.:	100	100	105	107
RPD:	0.0	4.9	0.0	0.0
RPD Limit:	0-20	0-20	0-20	0-20

LCS #:	2LCS082695	2LCS082695	2LCS082695	2LCS082695
Prepared Date:	8/26/95	8/26/95	8/26/95	8/26/95
Analyzed Date:	8/26/95	8/26/95	8/26/95	8/26/95
Instrument I.D.#:	HP-4	HP-4	HP-4	HP-4
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L
LCS Result:	20	21	21	63
LCS % Recov.:	99	104	105	106
MS/MSD LCS	71-133	72-128	72-130	71-120

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook Project Manager

Control Limits

Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS = Matrix Spike, MSD = MS Duplicate, RPD = Relative % Difference





Taralana ya k

680 Chesapeake Drive 404 N Wiget Lane 819 Striker Avenue, Suite 8 Redwood City, CA 94063 Walnut Creek, CA 94598 Sacramento, CA 95834 (415) 364-9600 (510) 988-9600 (916) 921-9600 FAX (415) 364-9233 FAX (510) 988-9673 FAX (916) 921-0100

Lowney Associates 1600 S. Main St, Ste 125 Walnut Creek, CA 94596 Attention: Brock Foster Client Project ID: S&S Building Supply; #1063-1

Matrix: Liquid

QC Sample Group: 5080911-913 Reported: Aug 29, 1995

QUALITY CONTROL DATA REPORT

Analyte:	Benzene	Toluene	Ethyl	Xylenes	
			Benzene		
QC Batch#:	GC082895	GC082895	GC082895	GC082895	
	802004A	802004A	802004A	802004A	
Analy, Method:	EPA 8020	EPA 8020	EPA 8020	EPA 8020	
Prep. Method:	•	-	-	-	
Analyst:	K. Nill	K, Nill	K, Nill	K. Nill	
MS/MSD #:	5081516	5081516	5081516	5081516	
Sample Conc.:	N.D.	N.D.	N.D.	N.D.	
Prepared Date:	8/28/95	8/28/95	8/28/95	8/28/95	
Analyzed Date:	8/28/95	8/28/95	8/28/95	8/28/95	
nstrument I.D.#:	HP-5	HP-5	HP-5	HP-5	
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L	
Result:	23	24	24	73	
MS % Recovery:	115	120	120	122	
Dup. Result:	20	20	20	62	
MSD % Recov.:	100	100	100	103	
RPD:	14	18	18	16	
RPD Limit:	0-20	0-20	0-20	0-20	

LCS #:	3LCS082895	3LCS082895	3LCS082895	3LCS082895			
Prepared Date:	8/28/95	8/28/95	8/28/95	8/28/95			
Analyzed Date:	8/28/95	8/28/95	8/28/95	8/28/95			
Instrument I.D.#:	HP-5	HP-5	HP-5	HP-5			
Conc. Spiked:	20 μg/L	20 μg/L	20 μg/L	60 μg/L			
LCS Result:	18	18	18	57			
LCS % Recov.:	90	92	92	95			
MS/MSD LCS	71-133	72-128	72-130	71-120			
Control Limits							

SEQUOIA ANALYTICAL, #1271

Kevin Van Slambrook Project Manager Please Note:

The LCS is a control sample of known, interferent-free matrix that is analyzed using the same reagents, preparation, and analytical methods employed for the samples. The matrix spike is an aliquot of sample fortified with known quantities of specific compounds and subjected to the entire analytical procedure. If the recovery of analytes from the matrix spike does not fall within specified control limits due to matrix interference, the LCS recovery is to be used to validate the batch.

** MS=Matrix Spike, MSD=MS Duplicate, RPD=Relative % Difference



TOVNEYASSOCIATES

CHAIN OF CUSTODY RECORD

Project Name:

Turnground

☐ Mountain View Office 405 Clyde Ave Mountain View, Ca 94043 415-967-2365

FAX COPY: 415-967-2785 (FAX)

Walnut Creek Office 1600 S. Main St, Suite 125 Walnut Creek, Ca 94596 510-938-9356 FAX COPY: 510-938-9359 (FAX)

Job No.: 1063-1 Report To: Brzock tosteiz Sampler (print): " Sampler (signature): Teach			Require	ANALYSIS REQUESTED																	
			■ 10 Working days						$\overline{7}$		/	//	/ /	7	7	7	/	$\overline{}$	$\overline{7}$	77	
												///////////////////////////////////////									
			-	5 Working days			/ ,		/_ /	/ ,		\@\ 	/@ 	/ ,		/ ,	/ .	Ι.	/ ,	/ / /	
			3 Work	3 Working days						& /	જું / ૧	&\ &\	ر چ								
QC Requirements:		24 Hours				/A	§/@		1/2/5		7/£	3/							/ /		
■ Level A (standard) ☐ Level B ☐ Level C ☐ Level D		☐ 2-3 Hot	☐ 2-3 Hours		177 178 182 183 183 180 15 180 280 280 280 280 280 280 280 280 280 2				Senate) 19. /) 9/q _{ez;}	/ /	/ /	$^{\prime}$ $/$	' /	/ /	/ /	/ /			
Sample I.D.	Date	Time	Lab I.D.	Sample Matrix	No. of Cont.	V								(0,000)							Remarks
WM-S	8-15-95	3:00		H20	3		V		50	809	11	AL									
MW-3	8.15.95	4:00		HzO	3		/		50	80:	912										
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