

Environmental Services, Inc.

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PROGRESS REPORT QUARTER ENDING DECEMBER 31, 1991

BECK ROOFING 21123 Meekland Avenue Hayward, California

Prepared for: Charlie and Mary Beck 21123 Meekland Avenue Hayward, CA 94541

> L&W Project 2116 January 7, 1992

Concerna 1-23-92PE O well screening 45' above current 6.w. level-(27.5')

2 mw2 is in presumed down gradient direction, but is 30' from excavation

Gradient consistent in both sampling events?

Michael J. Killoran

Geologist

Looking at levelow

General Engineering Contractors

Certified for Hazardous Substances Removal and Remedial Actions 27 - 100

veen <251 in Dast?

George Wilson Vice President

INTRODUCTION

<u>Purpose</u>

This report summarizes and reports work carried out at 21123 Meekland Avenue ("the site") in Hayward, California. The data and information in this report cover the various activities performed at the site through December 31, 1991. Work accomplished during this quarter included overexcavation of contaminated soil, a Soil and Groundwater Investigation, installation of three monitoring wells, and initial monitoring, sampling and analyses of the three wells.

This report when forwarded to the Regional Water Quality Control Board, San Francisco Region will serve as a progress report for the three month period ending December 31, 1991.

Background

Beck Roofing is a commercial roofing business that installed an underground gasoline tank as part of their operations to refuel roofing trucks. The only tank associated with the site was a 1000 gallon metal underground gasoline tank. Beck Roofing had the tank removed from the property on May 20, 1990. Upon excavation and tank removal, soil samples were analyzed and found to contain Total Petroleum Hydrocarbons as Gasoline (TPH-G) in excess of 1000 parts per million (ppm).

1991

Under local and state regulations, further work was required and was described in the letter dated August 5, 1991, from the Alameda County Health Care Services Agency. L&W Environmental Services Inc. responded with a Work Plan dated October 10, 1991 and a Work Plan Addendum dated October 29, 1991 describing the work to be carried out in response to the Alameda County Health Care Services Agency letter.

Site Location and Description

Beck Roofing is located on the south side of Meekland Avenue at 21123 Meekland Avenue, Hayward, California. The location of the site is shown on the Vicinity Map, Figure 1 of Appendix A. The site is essentially rectangular in shape and is used as the yard of a roofing company. The locations of the tank excavation as well as the main building, a shed and Meekland Avenue are shown on Figure 2 of Appendix A.

Site Setting

The site is located approximately 55 feet above sea level, in the province of San Francisco Bay and is geologically affected by the presence of the nearby bay to the west and the Berkeley Hills to the east. In general the site is within alluvial and bay sediments underlain at depth by basement rocks. Groundwater in this region is located at relatively shallow depths, in granular aquifers laid down by alluvial actions on the nearby Berkeley Hills. Groundwater is often contained in granular deposits layered and confined by various fine grained deposits at depths of about 20 feet below ground surface.

WORK ACCOMPLISHED

Excavation

A program of additional excavation was carried out to remove all the remaining backfill and adjacent contaminated soil. The approximate limits of the original tank removal excavation and the limits of the excavation as of December 16, 1991 are shown on the Site Plan, Figure 2 of Appendix A. The original excavation was about 9 feet deep which was the approximate elevation of the bottom of the tank. The depth of the excavation was extended during this quarter to about 17 feet below ground surface. The excavated soil has been stockpiled on site pending final characterization and the reopening of the Port Costa Material facility where it will be delivered for incineration and final destruction.

Sixteen confirmation soil samples were taken during the excavating activities and were analyzed for gasoline related contaminants. The locations of the sixteen confirmation samples are shown on the Sample Location Plan, Figure 3 of Appendix A. The results of the analyses are tabulated and discussed in the FINDINGS section of this report.

Soil Exploration

The subsurface conditions at the site have been explored with five borings to date. The following chart lists the borings, dates drilled and total depths.

Boring Number	Date Drilled	Total Depth
		_
MW1	10/30/91	45.5 feet
MW2	10/30/91	38 feet
B1	10/31/91	25.5 feet
B2	10/31/91	30.5 feet
MW3	10/31/91	38.0 feet

The borings were advanced with a CME 75 drill rig using 8 inch outside, 3-3/4 inch inside diameter hollow stem augers. The location of the five borings are shown on the Boring Location Plan, Figure 4 of Appendix A.

Soil samples were obtained at approximate 5 foot intervals by driving a California (2.5 inch diameter split-barrel) sampler containing brass tubes into the "undisturbed" soil beyond the augers. Driving energy was provided by a 140 pound hammer falling 30 inches in accordance with ASTM procedures. The California sampler and brass tubes were cleaned between samples using soap, TSP, and two clear water rinses to prevent cross or down-hole contamination. All down-hole equipment was steam cleaned prior to arriving on site. As samples were obtained, they were logged, sealed with teflon, taped, labeled, entered on a Chain-of-Custody form and stored in an ice chest containing ice.

Field logs of soil and groundwater conditions encountered in all of the borings were continually maintained by a staff geologist under the supervision of a registered Civil Engineer. Copies of the field logs are attached as Appendix D. The field logs were reviewed and the precise conditions encountered during the drilling of borings and wells are shown on the report boring logs, Figures 5 through 9 of Appendix A.

All the samples were then delivered to a California State Certified Laboratory for analytical testing. Each sample was analyzed for gasoline related contaminants. Results of the analyses on the samples from the five borings are tabulated and discussed in the FINDINGS section of this report.

Groundwater Exploration

After the soil borings MW1, MW2, and MW3 were finished they were immediately converted to Groundwater Monitoring Wells. The locations are shown on the Boring Location Plan, Figure 4 of Appendix A. Details of the well installations are shown on Figures 10, 11, and 12 of Appendix A. Copies of the State of California, Department of Water Resources Form DWR 188, Water Well Drillers Report are attached as Appendix C.

On November 4, 1991, the three wells were monitored and sampled. Initial groundwater surface elevations and preliminary observation samples were taken. Prior to sampling, each well was purged by removing at least four well volumes of water. An air lift pump was used to remove the water and place it into a DOT barrel. After purging and apparent stabilization of the water quality, pH, temperature, and conductivity, samples were obtained by lowering a disposable bailer into the water. Sufficient water was taken for the various analyses and stored in appropriate containers. The containers were labeled, entered on a Chain-of-Custody Form, refrigerated and delivered to a California State Certified Laboratory for the required analyses. Copies of Chain-of-Custody forms and original signed laboratory certificates are attached in Appendix B.

FINDINGS

Subsurface Conditions

The site is underlain by alternating deposits of naturally occurring sandy and silty clays, and fine to medium sands. A silty clay layer was encountered from near the ground surface to a maximum depth of approximately 7 feet. This layer was encountered in all of the borings except MW2, where the near surface layer consisted of a gravel-sand-clay mixture and extended to about 3 feet. Fine sands and silty sands were the next soil type encountered. In MW2 this layer was about 20 feet thick, but was thinner in other borings, ranging from 10 to 14 feet in thickness. A 3-foot thick lens of clay was found in B1 within this sand layer from about 9 to 13 feet. Below the sand, another clay layer was found in all borings down to depths ranging from 30 to 33 feet below ground surface. Borings 1 and 2 were terminated before this clay layer was penetrated. Another sand layer was encountered below the clay in MW1, MW2, and MW3. Data obtained in the deepest boring, MW1, reveal that this

sand layer is approximately 5 feet thick and is underlain by more clay down to approximately 45 feet, and is followed by another sand layer of unknown thickness.

On November 4, 1991, the three wells were surveyed, observed and monitored for depth to groundwater, and the presence of oil sheen or free product. The observations and measurements are presented below:

Location	Date Measured	Top of Casing Elevation	Sheen or Free Product (feet)	Depth to Groundwater (feet)	Piezometric Surface Elevation
MW1	10/18/91	100.01	None	32.32	67.69
MW2	10/18/91	100.13	None	32.44	67.69
MW3	10/18/91	100.00	None	32.40	67.60

Groundwater Hydrology

Based on the results of the exploration program, the groundwater below the site appears to be an aquifer located near the interface of the clay and sand in all three wells. Groundwater was initially encountered at about 33 feet below ground surface in all three wells, and has apparently stabilized at about 33 feet below ground surface.

The groundwater gradient was calculated based on the measurements taken November 4, 1991. The gradient is about 0.1 foot per 80 feet to the northeast. Figure 13 of Appendix A is a graphic representation of the calculated groundwater gradient.

Analytical Results

The following table summarizes the analytical results of the soil samples taken by Blaine Technical Services during the tank removal and the <u>16 confirmation soil</u> samples taken by L&W Environmental Services, Inc. during the overexcavation.

Blaine Technical Services (sample results during tank removal)

Sample ID	Date Sampled	TPH-G (ppm)	BTEX (ppm)	TOG (ppm)	LEAD (ppm)
#1	6/91	1,300	64/77/28/230	NT	0.22
#2	6/91	1,800	5.8/75/33/2107	NT	0.66
#3 A-D	6/91	11	ND/ND/ND/ND	NT	ND

L&W Environmental Services, Inc. (sample results during overexcavation)

Sample	Date	TPH-G	BTEX	TOG	LEAD
<u>ID</u>	Sampled	(ppm)	(ppm)	(ppm)	(ppm)
2116-G1	10/30/91	680	ND/4.7/4.5/110	ÑΤ	8.22
2116-G2	10/30/91	1330	6.3/140/50/280	NT	ND
2116-G3	10/30/91	940	0.53/16/12/150	NT	ND
2116-G4	10/30/91	270 0	37/310/100/520	NT	<i>7</i> .50
2116-NW-17	10/30/91	2740	16/240/120/650	NT	ND
2116-F	10/30/91	576 0	30/450/230/1270	NT	7.25
2116-SW-15	10/30/91	ND	.011/.071/.015/.087	NT	8.30
2116-SW-17	10/30/91	72 0	0.40/13/8.4/90	NT	9.35
2116-NW-15	10/30/91	1.5	0.008/0.05/0.016/0.21	NT	ND
2116-EW-14	11/6/91	170	ND/2.7/1.5/10	ND	NT
2116-C-16	11/6/91	7 80	0.83/15/6.3/48	ND	NT
2116-WW-16	11/7/91	1.0	ND/0.009/ND/0.029	NT	4.0
2116-CF-18	11/7/91	6800	40/440/140/770	NT	12.2
2116-NW-16	11/7/91	4200	6.3/240/100/550	NT	11.0
2116-SW-16	11/7/91	3200	1.8/100/60/350	NT	8.4
2116-EW-16	11/7/91	1.2	ND/0.040/0.008/0.048	NT	ND
Notes:	TPH-G	Total Pet	roleum Hydrocarbons	as Gasoline	

Notes:	TPH-G	Total Petroleum Hydrocarbons as Gasoline
	BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
	TOG	Total Oil and Grease
	ND	Non Detectable
	NT	Not Tested
	ppm	parts per million

Boring Soil Sample Analytical Results

The following table summarizes the results of the soil samples taken from the five borings.

Sample <u>ID</u>	Date Sampled	TPH-G (ppm)	BTEX (ppm)	LEAD (ppm)
2116-5-MW1	10/30/91	ND	ND/0.016/ND/0.014	ND
2116-10-MW1	10/30/91	ND	ND/0.010/ND/0.007	ND
2116-15-MW1	10/30/91	ND	ND/0.013/ND/0.007	ND
2116-20-MW1	10/30/91	ND	ND/0.010/ND/0.006	ND
2116-25-MW1	10/30/91	ND	ND/0.024/ND/0.007	ND
2116-30-MW1	10/30/91	ND	ND/0.011/ND/0.006	5.00
2116-35-MW1	10/30/91	ND	ND/0.010/ND/0.006	5.50
2116-40-MW1	10/30/91	ND	ND/0.016/ND/0.006	ND
2116-45-MW1	10/30/91	ND	ND/0.015/ND/0.006	4.3

Boring Soil Sample Analytical Results (continued)

Sample	Date	TPH-G	BTEX	LEAD
<u>ID</u>	<u>Sampled</u>	(ppm)	(ppm)	(ppm)
2116-5-MW2	10/30/91	ND	ND/ND/ND/ND	ND
2116-10-MW2	10/30/91	ND	ND/ND/ND/ND	ND
2116-15-MW2	10/30/91	ND	ND/ND/ND/ND	ND
2116-20-MW2	10/30/91	ND	ND/ND/ND/ND	5.90
2116-25-MW2	10/30/91	1.4	0.10/0.085/0.014/0.090	ND
2116-30-MW2	10/30/91	ND	0.044/0.008/ND/ND	ND
2116-35-MW2	10/30/91	ND	0.006/ND/ND/ND	4.20
2116-5-B1	10/31/91	ND	ND/0.017/ND/ND	ND
2116-10-B1	10/31/91	ND	ND/0.011/ND/ND	ND
2116-15-B1	10/31/91	ND	ND/.012/ND/ND	ND
2116-20-B1	10/31/91	5.7	0.250/0.600/0.10/0.57	5.82
2116-25-B1	10/31/91	8.8	0.14/0.60/0.126/0.76	4.20
2116-5-B2	10/31/91	ND	ND/0.018/ND/ND	ND
2116-10-B2	10/31/91	ND	ND/0.013/ND/0.006	4.00
2116-15-B2	10/31/91	ND	ND/0.006/ND/ND	ND
2116-20-B2	10/31/91	ND	0.046/0.011/0.014/0.040	ND
2116-25-B2	10/31/91	35	0.44/1.2/0.32/1.80	ND
2116-30-B2	10/31/91	36	0.27/0.87/0.37/2.1	ND
2116-5-MW3	10/31/91	1	ND/0.018/ND/ND	ND
2116-10-MW3	10/31/91	ND	ND/ND/ND/ND	3.60
2116-15-MW3	10/31/91	ND	ND/0.028/ND/ND	3.60
2116-20-MW3	10/31/91	2.9	0.021/0.017/0.006/0.025	5.80
2116-25-MW3	10/31/91	6.2	0.048/0.022/0.012/0.056	ND
2116-30-MW3	10/31/91	9.8	0.25/0.015/0.048/0.26	3.90
2116-35-MW3	10/31/91	ND	ND/0.014/ND/ND	3.75
			•	

Notes:	TPH-G	Total Petroleum Hydrocarbons as Gasoline
	BTEX	Benzene, Toluene, Ethylbenzene, Xylenes
	TOG	Total Oil and Grease
	ND	Non Detectable
	NT	Not Tested
	ppm	parts per million

Groundwater Sample Analytical Results

The following table presents the results of the intial sampling of the three groundwater results.

Sample <u>ID</u>	Date Sampled	TPH-G (ppm)	BTEX (ppm)	LEAD (ppm)
2116-MW1	11/4/91	ND	ND/ND/ND/ND	ND
2116-MW2	11/4/91	ND	ND/ND/ND/ND	ND
2116-MW3	11/4/91	ND	ND/ND/ND/ND	ND

Notes:

ND = Non Detectable ppm = parts per million

CONCLUSIONS

- 1. The underground gasoline storage tank which was the primary source of the soil contamination has been removed. All of the contaminated backfill which had surrounded the underground tank and which could act as a secondary source has also been removed.
- 2. Much of the heavily contaminated native soil has been removed. The contamination in the native soil could continue to leach and spread, posing a potential negative impact on the groundwater. The contaminated soil immediately around the tank excavation has been excavated to 17 feet below the ground surface which is the practical limits of normal equipment. Some areas of heavily contaminated soil remain along the perimeter of the exiting excavation.
- 3. The overexcavation carried out to date at Beck Roofing has removed much of the contaminated soil adjacent to the removed tank. The confirmation samples and the soil boring samples indicate that there was a significant spread of TPH-G and BTEX through the soil at the site. The levels of TPH-G and BTEX attenuate rapidly as distance from the tank increases. No detectable levels of contaminants were encountered at or above 15 feet except immediately adjacent to the tank excavation.
- 4. The results of all soil sampling have been reviewed and the estimated limits of the spread of TPH-G have been plotted for the 15 foot, 20 foot, 25 foot, and 30 foot levels. The limits are shown on Figures 13 through 16 of Appendix A. Using this data it appears that some TPH-G and BTEX has spread at low levels via stringers of granular soil to areas about 100 feet away. In general the spread appears to have been in a westerly and northerly direction. The spread has not been continuous and appears to have been confined to the soil between 15 and 30 feet below ground surface.
- 5. Although there has been some lateral and vertical spread of TPH-G and BTEX, there has not been any effect on the groundwater as evidenced by the non-detectable levels of the groundwater analyses.

6. Further soil removal should be carried out to remove any soil with concentrations exceeding 1000 part per million TPH-G. When this soil is removed, the remaining contaminated soil should not pose a significant threat to groundwater.

RECOMMENDATIONS

- 1. Additional soil should be removed from the perimeter of the existing excavation. All soil should be removed which has TPH-G levels of 1000 parts per million or more. The depth of excavation should be to at least 17 feet below ground surface.
- 2. The three Groundwater Monitoring Wells were monitored and sampled on a monthly basis in November and December, 1991 and then should bew monitored in January 1992 and then on a Quarterly basis for at least one year. Groundwater samples should be analyzed for TPH-G, BTEX, and Total Lead. the groundwater gradient should be calculated and plotted for each monitoring episode.

REPORT SUBMITTALS

A copy of this report will be submitted to: Ms. Pam Evans, Alameda County Department of Environmental Health, 80 Swan Way, Oakland, CA 94621.

and

Mr. Richard Hiett Regional Water Quality Control board 2101 Webster Street, 4th floor Oakland, CA 94612

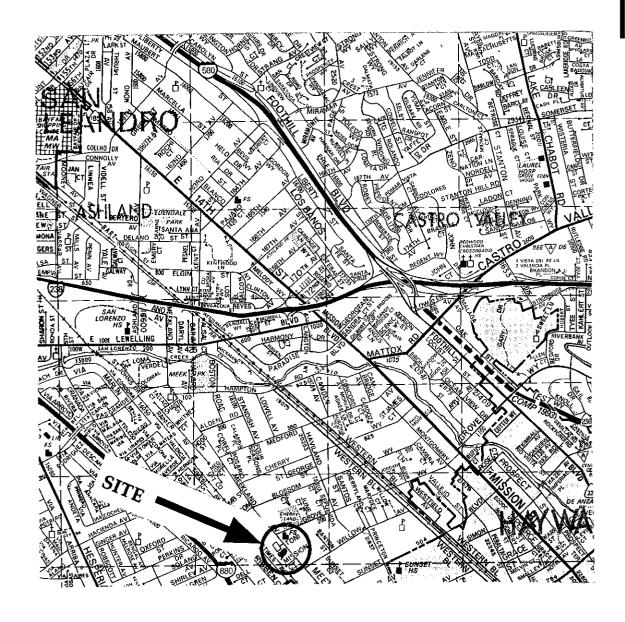
APPENDIX A

Figures 1 through 16

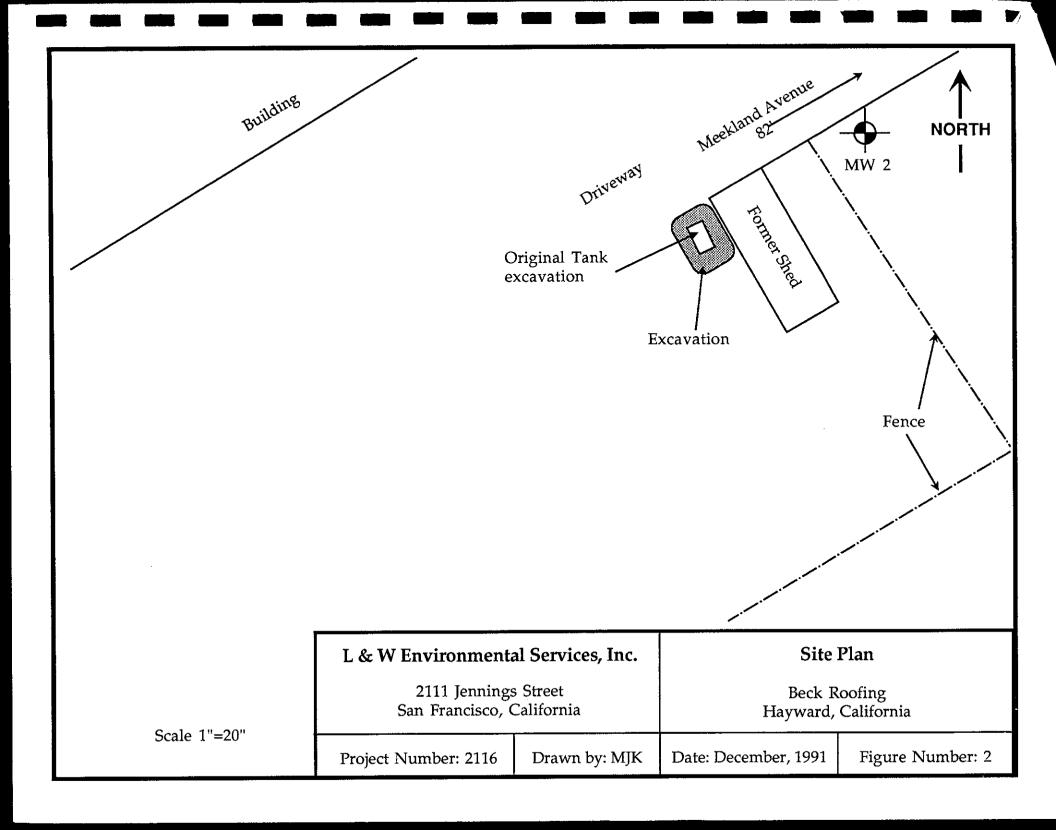
BECK ROOFING 21123 MEEKLAND AVENUE HAYWARD, CALIFORNIA

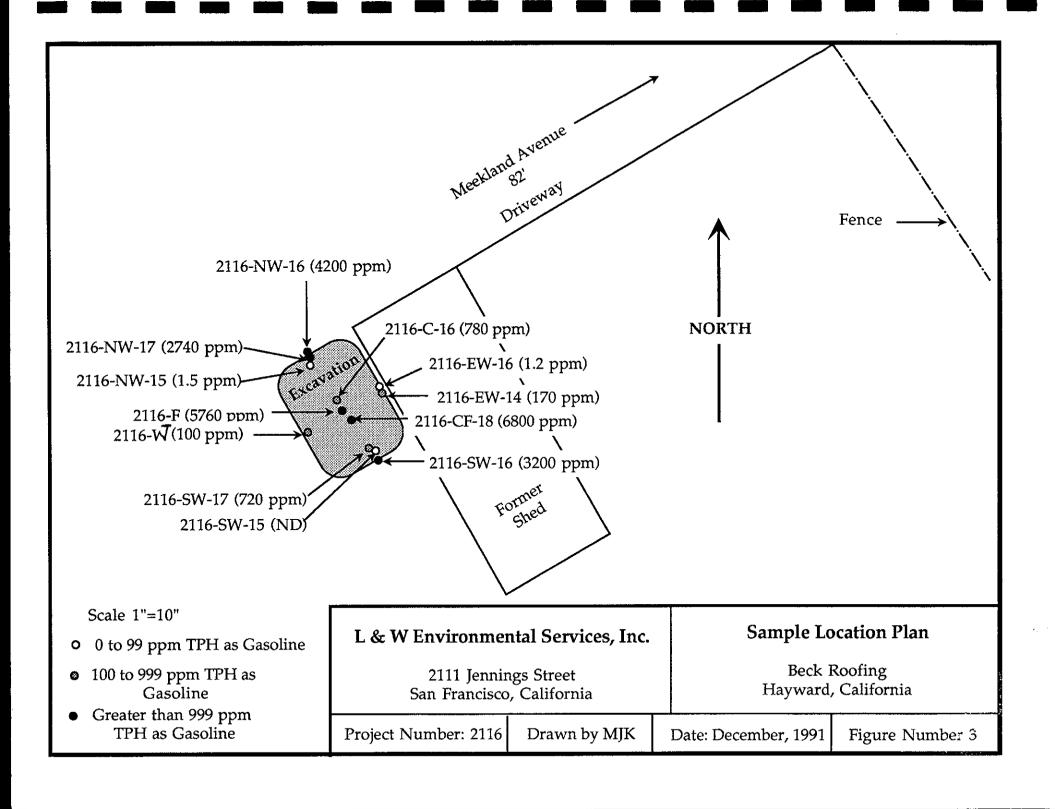
> L&W Project 2116 January 7, 1992

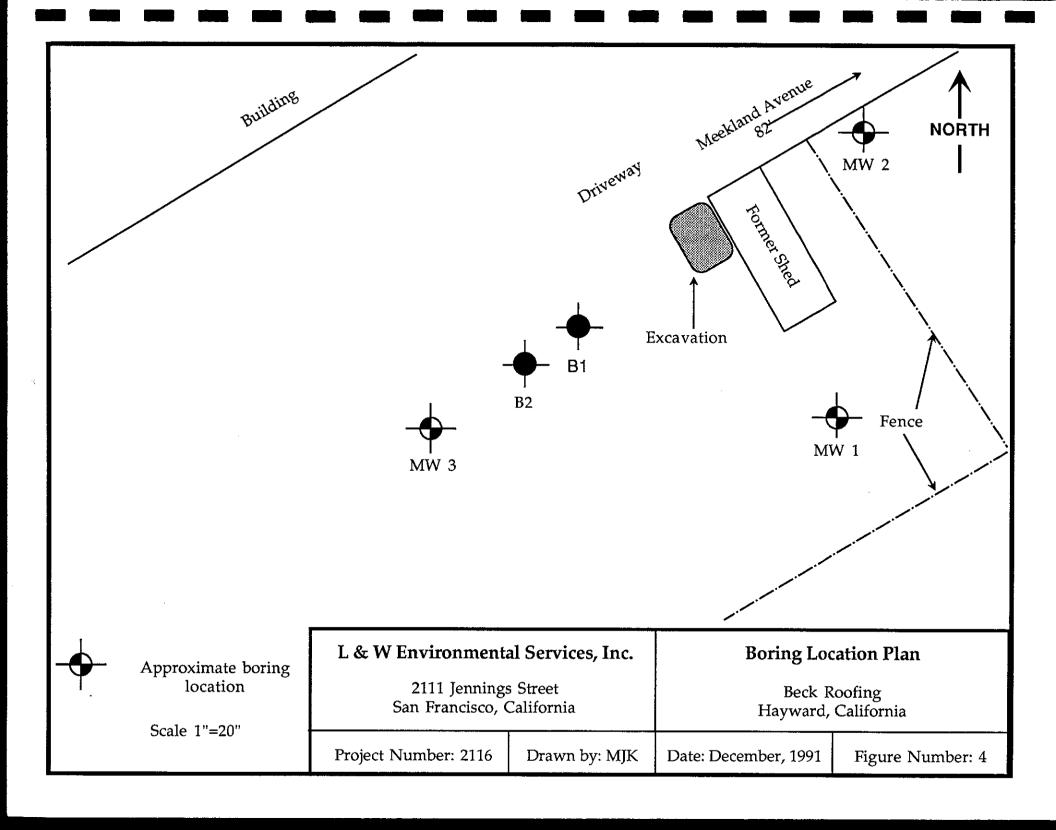




L & W Environmental Services, Inc. 2111 Jennings Street San Francisco, California Project Number: 2116 Drawn by: MJK Vicinity Map Beck Roofing 21123 Meekland Avenue Hayward, California Page November, 1991 Figure Number: 1







Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
					0	Brown sandy silty clay, moist, no odor, medium plasticity.
2116-5-MW1	20	CL	911		5	Brown sandy silty clay, very stiff, moist, no odor, low plasticity.
2116-10-MW1	15	SM	917		10	Brown silty sand, fine-grained, medium dense, moist, no odor.
2116-15-MW1	12	SP	925		15	Brown sand with subangular gravel, fine-grained, medium dense, moist, no odor.
2116-20-MW1	5	CL	935			Brown silty clay, medium stiff, moist, no odor, low plasticity.
	L & W Environmental Services, Inc. 2111 Jennings Street			Inc.		Log of Boring Number: MW 1 Sheet 1 of 3 Beck Roofing 21123 Meekland Avenue
San 1	San Francisco, California Project Number: 2116				Date:	Hayward, California : November, 1991 Figure Number: 5

Foo	Type	Time	Log	Depth in Feet	DESCRIPTION
2116-25-MW1 13	CL	944		25	Same, with medium plasticity.
2116-30-MW1 9	CL/ SP	959		30	Same, but stiff. Brown sand, fine-grained, medium loose, moist, no odor.
2116-35-MW1 9	SP/ CL	1008		35	Brown silty clay, stiff, moist to wet near top of sample, no odor, medium plasticity.
2116-40-MW1 11	CL	1025		40	Same.
L & W Environmental Services, Inc. 2111 Jennings Street			Inc.		Log of Boring Number: MW 1 Sheet 2 of 3 Beck Roofing 21123 Meekland Avenue
San Francis Project N	o, Calife	ornia		Date	Hayward, California November, 1991 Figure Number: 5

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
		CL				
						Same.
2116-45-MW1	13	CL/SP	1035	4///	45	Brown sand, fine-grained, medium dense, wet, no odor.

Boring terminated at 45.5 feet.
Groundwater encountered at 30.5 feet.
Boring drilled 10/30/91 with CME 75 rig.
Boring grouted from 45.5 to 39 feet and converted into Monitoring Well 1 on 10/30/91

L & W	Environmenta	l Services, Inc.

2111 Jennings Street San Francisco, California Log of Boring Number: MW 1
Sheet 3 of 3
Beck Roofing
21123 Meekland Avenue

Hayward, California

Project Number: 2116

December, 1991

Figure Number: 5

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION	
					0	3" asphalt cover.	
		GC				Brown gravel-sand-clay mixture, moist, no odor.	
2116-5-MW2	18	SM	145		5	Brown silty sand, fine-grained, medium dense, moist, no odor.	
2116-10-MW2	10	SM	150		10	Brown silty sand, fine-grained, loose to medium dense, moist, no odor.	
2116-15-MW2	12	SP	200		15	Brown sand, fine-grained, medium dense, moist, no odor.	
2116-20-MW2	6	SP			20	Same, but loose. Log of Boring Number: MW 2	
L & W Env	ironme	ental Se	ervices,	Inc.		Sheet 1 of 2	
	2111 Jennings Street San Francisco, California				Beck Roofing 21123 Meekland Avenue		
	Project Number: 2116				Date:	Hayward, California December, 1991 Figure Number: 6	

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
2116-25-MW2	19	CL	235		25	Brown sandy silty clay, very stiff, moist, no odor, medium plasticity.
2116-30-MW2	18	CL	245		30	Same.
2116-35-MW2	12	SM	255		35	Brown sand, fine-grained, medium stiff, wet, no odor.

Boring terminated at 38 feet. Groundwater encountered at 33 feet. oring drilled 10/30/91 with CME 75 ri

Boring drilled 10/30/91 with CME 75 rig.
Boring converted into Monitoring Well 2 on 10/30/91

L & W Environmental Services, Inc.	Log of Boring Number: MW 2 Sheet 2 of 2 Beck Roofing 21123 Meekland Avenue Hayward, California		
2111 Jennings Street San Francisco, California			
Project Number: 2116	Date: December, 1991	Figure Number: 6	

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION	
					0	Brown sandy silty clay, moist, no odor, medium plasticity.	
2116-5-B1	12	CL	910		5	Brown sandy silty clay, stiff, moist, no odor, low plasticity.	
		SC				Brown clayey sand, fine-grained, moist, no odor, grades downward to a silty clay.	
2116-10-B1	10	CL	915		10	Brown sandy silty clay, stiff, moist, no odor, low plasticity.	
2116-15-B1	12	SP	927		15	Brown sand, fine-grained, medium dense, moist, no odor.	
2116-20-B1	8	CL	940		20	Brown sandy silty clay, medium stiff, moist, odor.	
21 1	L & W Environmental Services, Inc. 2111 Jennings Street San Francisco, California			Inc.	Log of Boring Number: B1 Sheet 1 of 2 Beck Roofing 21123 Meekland Avenue		
Proj	ject Nur	nber: 21	16		Date:	Hayward, California December, 1991 Figure Number: 7	

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
2116-25-B1	10	CL	950		25	Brown sandy silty clay, stiff, moist, strong odor, medium plasticity.

Boring terminated at 25.5 feet. Groundwater not encountered. Boring drilled 10/31/91 with CME 75 rig.

L & W Environmental Services, Inc.

2111 Jennings Street San Francisco, California Log of Boring Number: B1
Sheet 2 of 2
Beck Roofing

21123 Meekland Avenue Hayward, California

Project Number: 2116

Date: December, 1991

Figure Number: 7

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION	
					0		
2116-5-B2	16	CL	1050		5	Brown silty sandy clay, very stiff, moist, no odor, medium plasticity.	
2116-10-B2	10	SM	1112		10	Brown silty sand, fine-grained, loose to medium dense, moist, no odor.	
2116-15-B2	9	SP	1120		15	Brown sand, fine-grained, loose, moist, no odor.	
2116-20-B2	7	CL	1130		20	Brown silty clay, medium stiff, moist, no odor, medium plasticity.	
L & W Env	L & W Environmental Services, Inc.			Inc.	Log of Boring Number: B2 Sheet 1 of 2		
2111 Jennings Street San Francisco, California				Beck Roofing 21123 Meekland Avenue Hayward, California			
Project Number: 2116					Date:	December, 1991 Figure Number: 8	

Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
2116-25-B2	9	CL	1136		25	Brown sandy silty clay, stiff, moist, strong odor, medium plasticity.
2116-30-B2	8	CL	1145		30	Same.

Boring terminated at 30.5 feet. Groundwater not encountered. Boring drilled 10/31/91 with CME 75 rig.

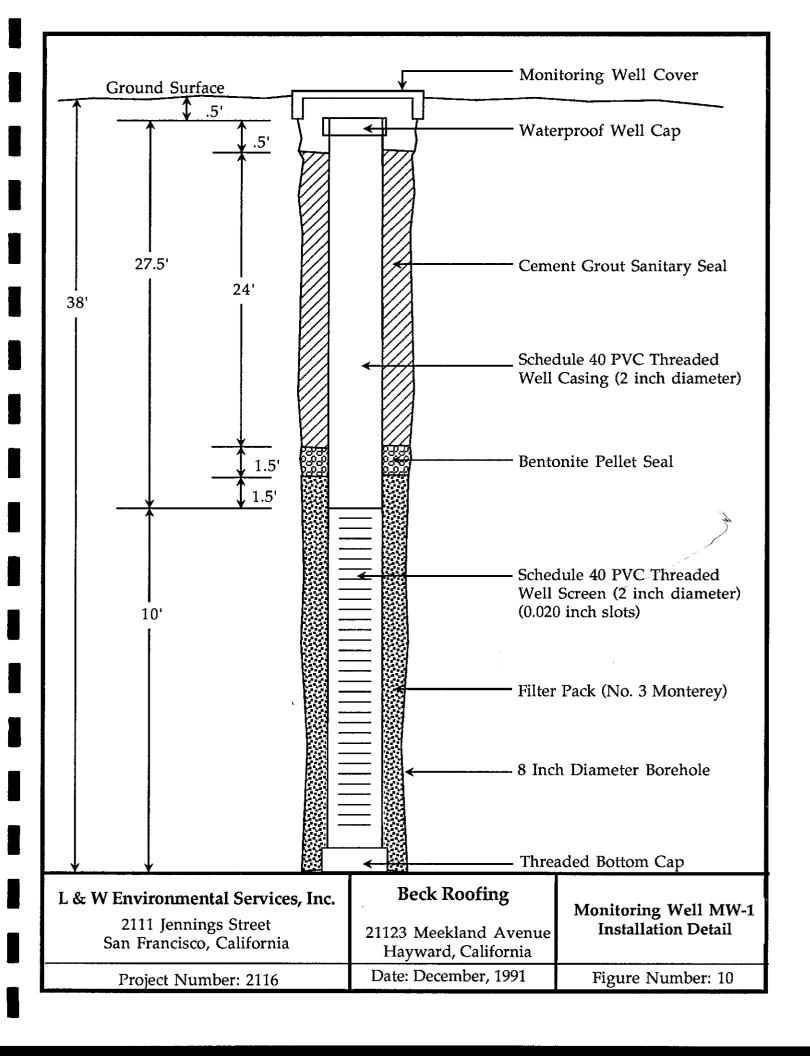
L & W Environmental Services, Inc.	Log of Boring Number: B2 Sheet 2 of 2 Beck Roofing 21123 Meekland Avenue Hayward, California		
2111 Jennings Street San Francisco, California			
Project Number: 2116	Date: December, 1991	Figure Number: 8	

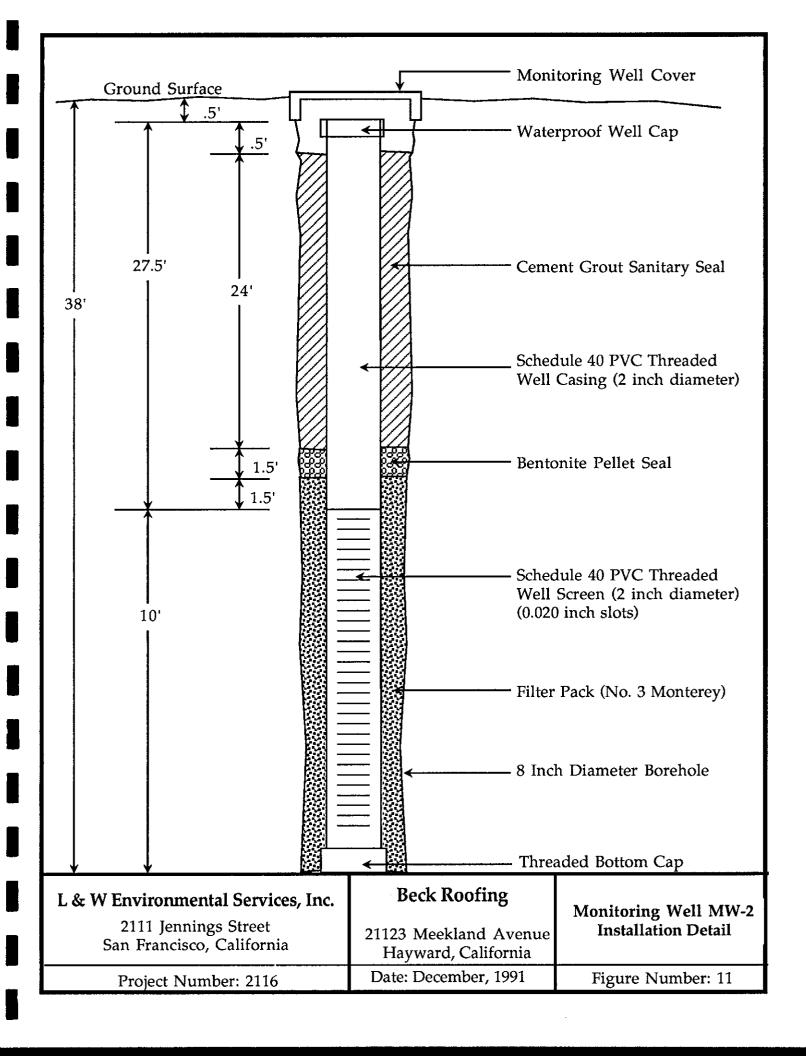
Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION		
					0	Brown silty clay with sand and gravel, moist, no odor.		
2116-5-MW3	9	CL	115		5	Brown silty clay, stiff, moist, no odor medium plasticity.		
2116-10-MW3	12	SM	125		10	Brown silty sand, fine-grained, medium dense, moist, no odor.		
2116-15-MW3	12	SM	135		15	Same.		
						Brown silty clay, stiff, moist, slight odor, medium plasticity.		
2116-20-MW3	5	CL			20	Brown silty clay, medium stiff, moist, odor, medium plasticity.		
L & W Env	L & W Environmental Services, Inc.				Log of Boring Number: MW 3 Sheet 1 of 2			
	2111 Jennings Street San Francisco, California					Beck Roofing 21123 Meekland Avenue Hayward California		
Pro	Project Number: 2116					Hayward, California Date: December, 1991 Figure Number: 9		

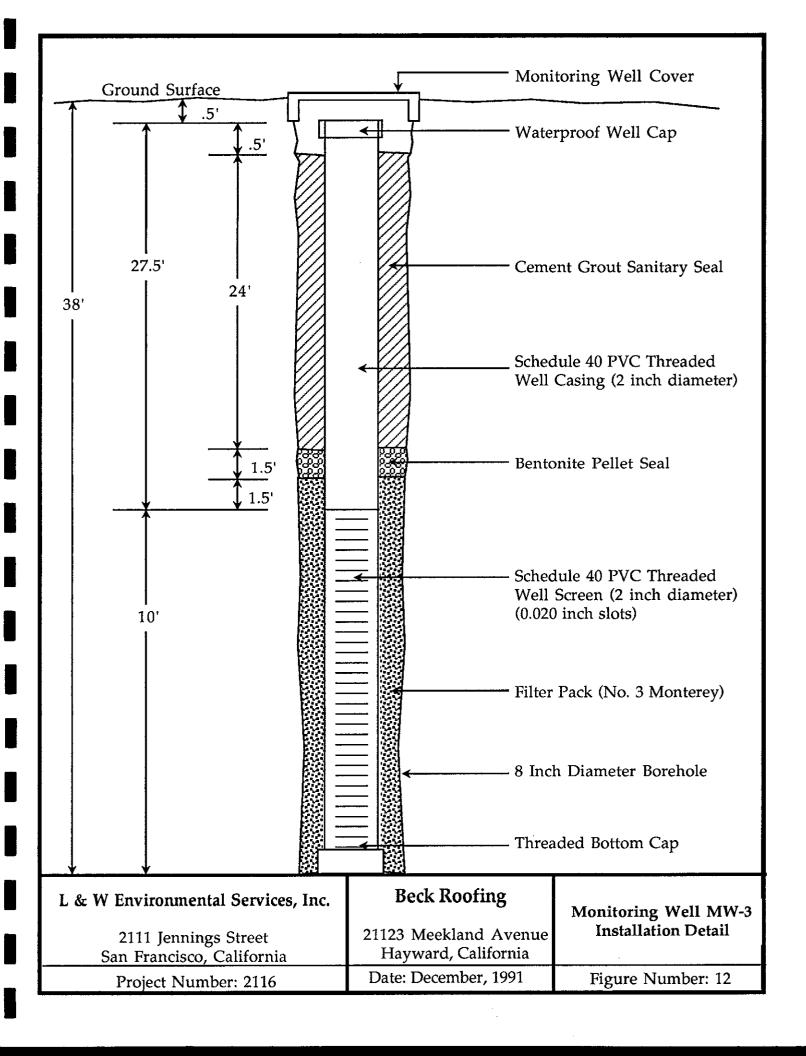
Sample Number	Blows per Foot	Soil Type	Time	Log	Depth in Feet	DESCRIPTION
2116-25-MW3	14	CL	207		25	Same.
2116-30-MW3	13	CL	225		30	Same.
2116-35-MW3	13	SM	230		35	Brown silty sand, fine-grained, medium dense, wet.

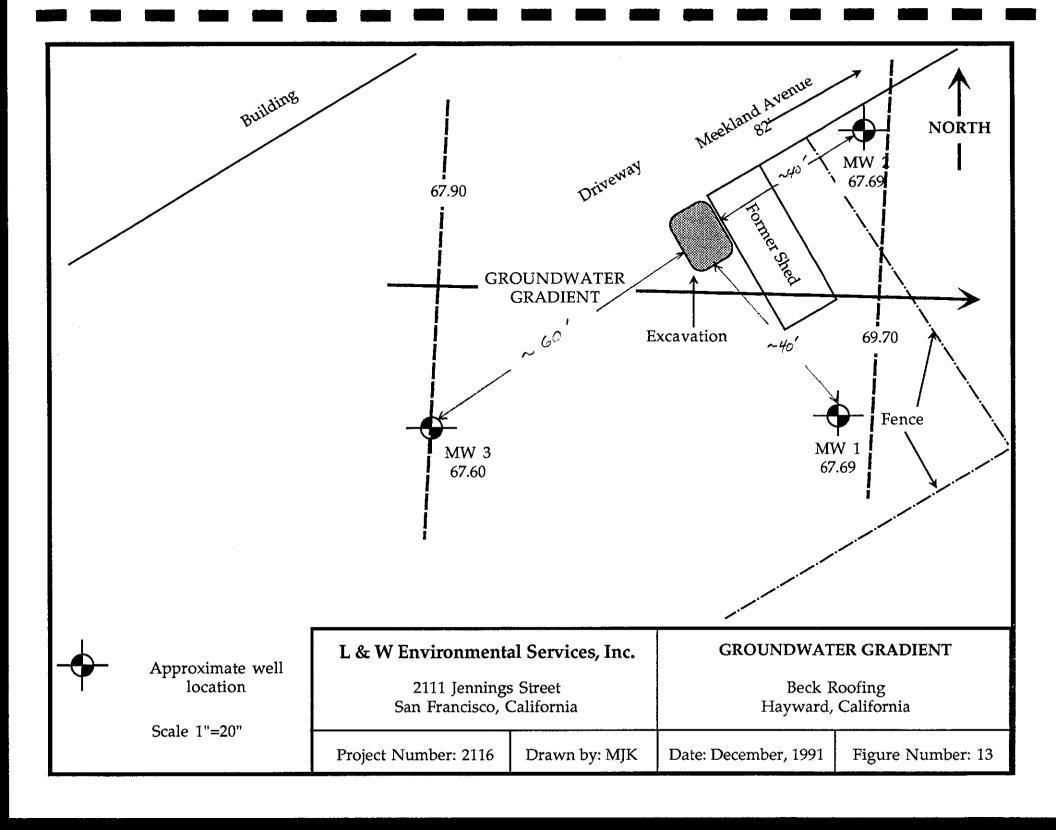
Boring terminated at 38 feet.
Groundwater encountered at 33 feet.
Boring drilled 10/31/91 with CME 75 rig.
Boring converted into Monitoring Well 3 on 10/31/91

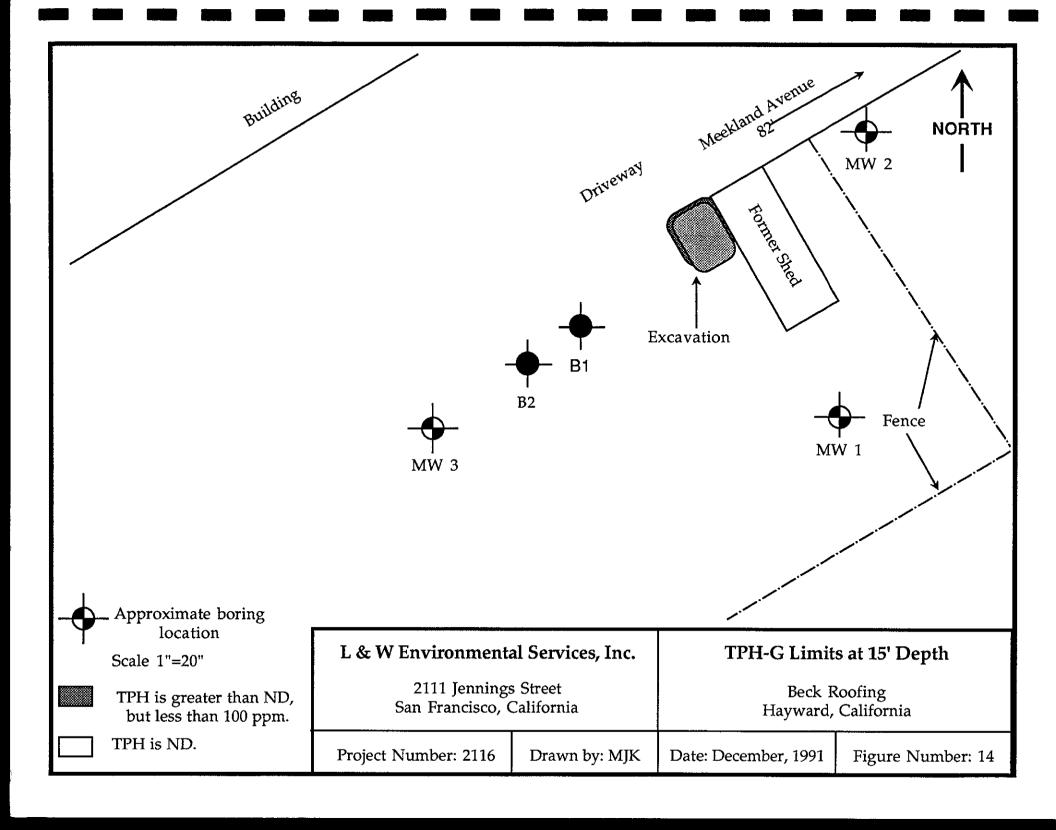
L & W Environmental Services, Inc.	Log of Boring Number: MW 3 Sheet 2 of 2 Beck Roofing 21123 Meekland Avenue Hayward, California		
2111 Jennings Street San Francisco, California			
Project Number: 2116	Date: December, 1991	Figure Number: 9	

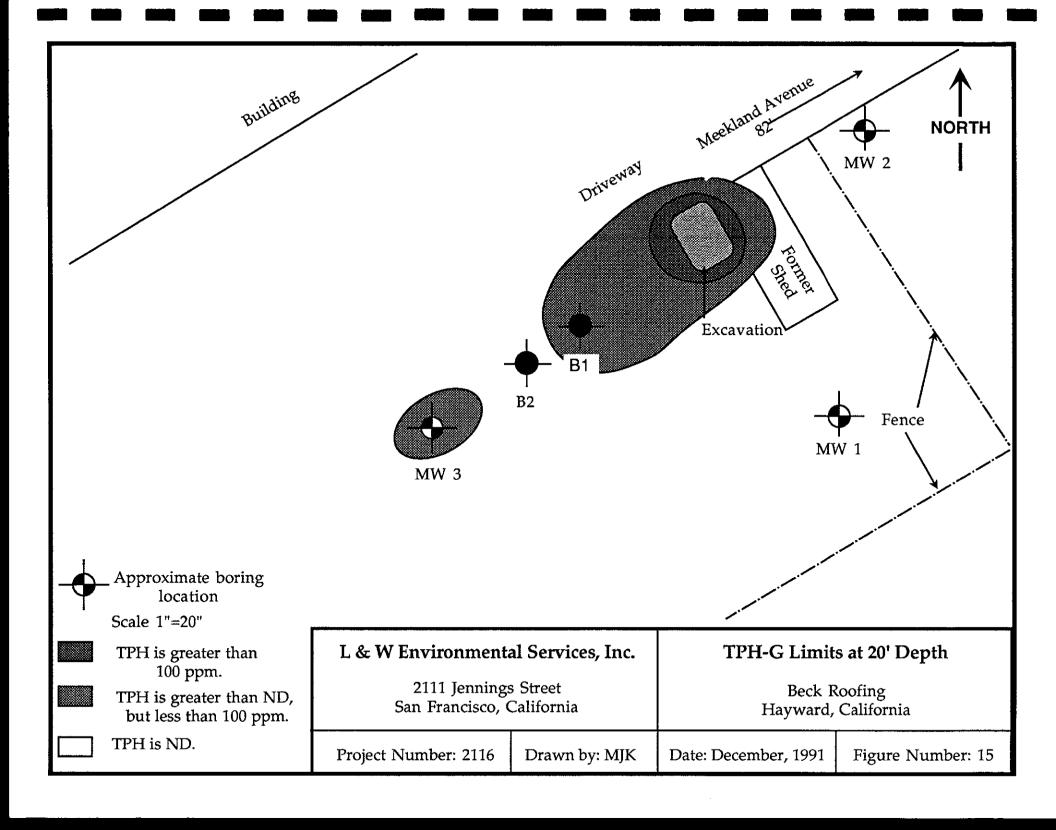


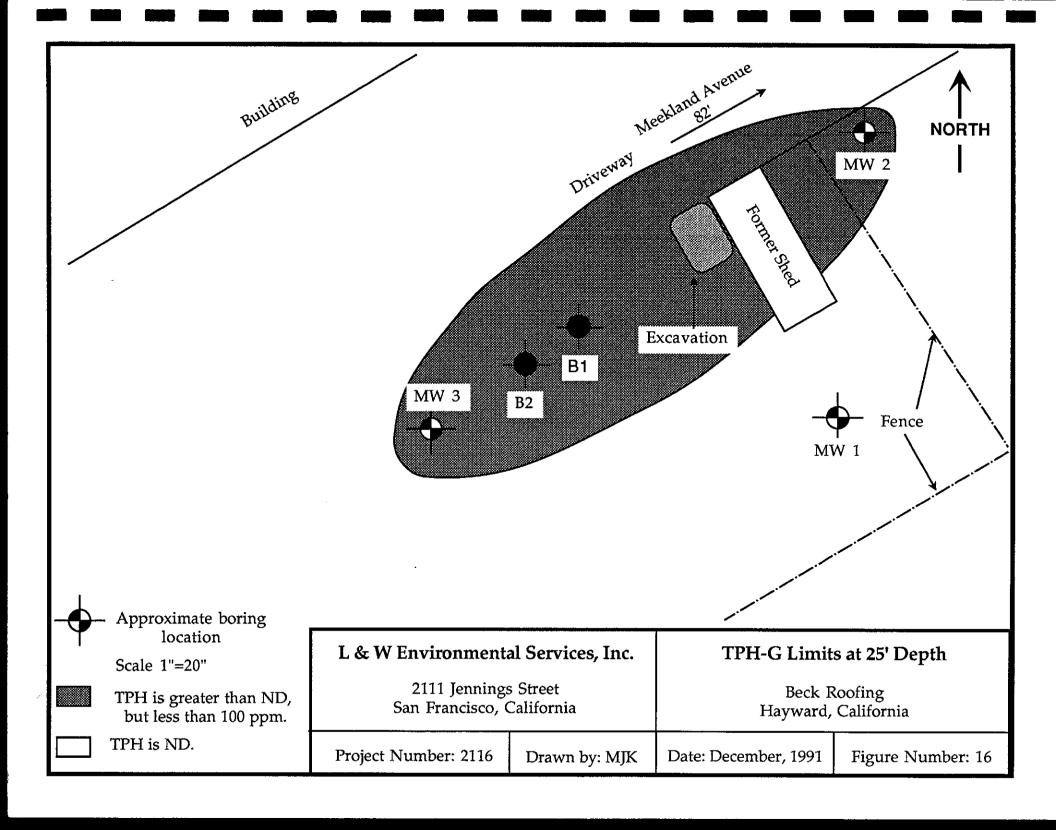


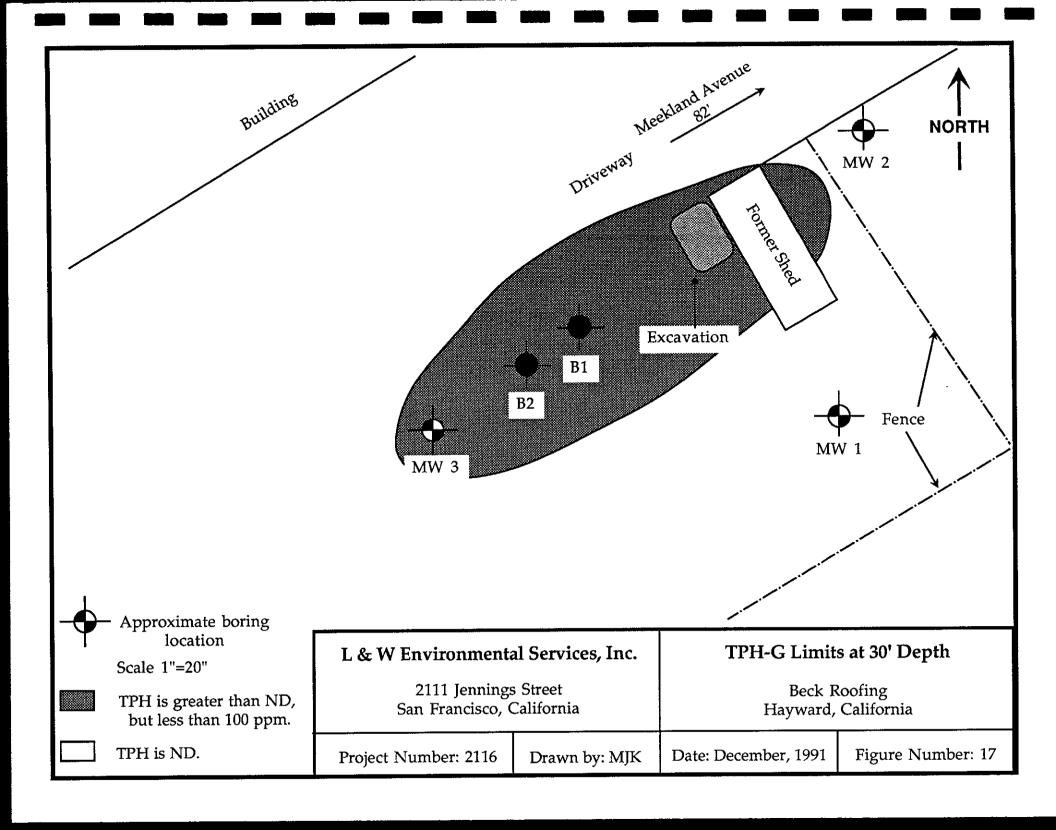












APPENDIX B

Summary of Analytical Results
Laboratory Certificates
and
Chain of Custody Forms

BECK ROOFING 21123 MEEKLAND AVENUE HAYWARD, CALIFORNIA

> L&W Project 2116 January 7, 1992

CHAIN OF CUSTODY ANALYSIS SAMPLERS: (Signature) OTA POLICE STATE OF THE PO REQUESTED JOB NUMBER: TENERALITA LERO PROJECT NAME: (Print) Boofing From Pile of Excated DESCRIPTION: SAMOLES ADDRESS: MEERLAND 21173 HAYWARD Wer Als CROSS TIME SOIT SAMPLE LOCATION REFERENCE DATE REMARKS NUMBER 1x2"TURE 1300 10-30-91 2116-61 1x2"TURE Soil 1300 10-30-91 2116-GZ XX TUPE Soil 1300 2116-G3 10-30-91 1x2"TUBE 2116-G4 10-30-91 1300 1+2"TUBS. Bettom 14:15 2116-NW-17 10-30-91 172"TUBE FLOOR CENTER 2116-F 10-30-91 14:20 172 TUBE South WALL Z116-SW-15 10-30-91 14:25 Bottom 1,2"TURE 17 2116-52-17 South wall 10-30-91 14:30 1x2"TUBE North Wall 2116-NW-15 10-30-91 14:35 DATE 10/ 30/54 RECEIVED BY: (Signature) 1 3 Toroge RELINQUISHED BY: (Signature) DATE 10/30/-1 TIME 170() TIME 1-100 RELINQUISHED BY: (Signature) DATE 11-W-SI RECEIVED BY: (Signature) 11-4-91 TIME &∵0C 4:00 RECEIVED BY: (Signature) DATE RELINQUISHED BY: (Signature) DATE TIME TIME DATE DATE RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) TIME TIME DATE RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) DATE TIME TIME L&W ENVIRONMENTAL SERVICES, INC.

Precision Analytical Laboratory, Inc.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

ઌ૱૿૽૱૽ૺૹૻ૽**ૼૺૹૻ**૽ૹ૽૽ઌ૽૽૱ૹ૽૽<mark>ૹૻ</mark>૽ૺૹૻૹૼૹ૿૽ૹૻૹૺ**ૹ૽ૹ૽ૹ૽ૹ૽ૹ**ૹ૾૽ૹ૾૽૱૱ૡ૽૽ૢૹ૾૾ૹ૾ૹ૽ૹ૽૱ઌૺૢ૽ૹ૽૽ૢૹૢઌ૽ઌ૽૽૾૽૾

Received: 11/04/91 Reported: 11/26/91

Job #: 72981

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward, CA

Matrix: Soil

Total Petroleum Hydrocarbon Analysis
EPA Method 5030
mg/Kg

<u>Lab ID</u>	Client ID	<u>Gasoline</u>	$\underline{\mathtt{MDL}}$
72981-1	2116-G1	680	100
72981-2	2116-G2	1,330	100
72981-3	2116-G3	940	100
72981-4	2116-G4	2,700	100
72981-5	2116-MW-17	2,740	100
72981-6	2116-F-17	5,760	100
72981-7	2116-SW-15	ND<1.0	1.0
72981-8	2116-SW-17	720	100
72981-9	2116-NW-15	1.5	1.0

QA/QC: Spike Recovery for Gasoline: 68%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Daboratory Director

JC/td

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

11/04/91 Received: Reported: 11/26/91

Job #: 72981

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward, CA

Matrix: Soil

> Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

Lab ID	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72981-1 72981-2 72981-3 72981-4 72981-5 72981-6	2116-G1 2116-G2 2116-G3 2116-G4 2116-MW-17 2116-F-17	ND<0.3 6.3 0.53 37 16 30	0.3 0.3 0.3 0.3 0.3	4.7 140 16 310 240 450	0.3 0.3 0.3 0.3 0.3
		Ethyl-			

<u>Lab ID</u>	Client ID	benzene	MDL	<u>Xylenes</u>	MDL
72981-1	2116-G1	4.5	0.3	110	0.6
72981-2	2116 - G2	50	0.3	280	0.6
72981-3	2116-G3	12	0.3	150	0.6
72981-4	2116-G4	100	0.3	520	0.6
72981-5	2116-MW-17	120	0.3	650	0.6
72981-6	2116 - F-17	230	0.3	1,270	0.6

Spike Recovery for Benzene: QA/QC: 81%

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

Method Detection Limit. Compound below this level would not be MDL: detected.

Jaime Chow

Laboratory Director

<u>Page 1 of 2</u>

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91

Reported: 11/26/91

Job #: 72981

George Wilson L & W Environmental

Project: Beck Roofing

21123 Meekland

Hayward, CA

Matrix: Soil

72981-9

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mq/Kq

<u>Lab ID</u>	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72981-7	2116-SW-15	0.011	0.005	0.071	0.005
72981-8	2116-SW-17	0.40	0.3	13	0.3
72981-9	2116-NW-15	0.008	0.3	0.05	0.3
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	<u>Xylenes</u>	MDL
72981-7	2116-SW-15	0.015	0.005	0.087	0.005
72981-8	2116-SW-17	8.4	0.3	90	0.6

0.016

0.3

0.21

0.6

QA/QC: Spike Recovery for Benzene: 81%

2116-NW-15

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

Method Detection Limit. MDL: Compound below this level would not be detected.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 11/26/91 Reported:

Job #: 72981

George Wilson Attn: L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward, CA

Matrix:

Analysis Method 6010 Preparation Method 3050 mg/Kg

Lab ID #	Client ID	Total Lead	MDL
72981-1	2116-G1	8.22	3.00
72981-2	2116 - G2	ND<3.00	3.00
72981-3	2116 - G3	ND<3.00	3.00
72981-4	2116 - G4	7.50	3.00
72981-5	2116-NW-17	ND<3.00	3.00
72981-6	2116-F-17	7.25	3.00
72981 - 7	2116-SW-15	8.30	3.00
72981-8	2116-SW-17	9.35	3.00
72981-9	2116-NW-15	ND<3.00	3.00

Spike Recovery:

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

CHAIN OF CUSTODY

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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/07/91 Reported: 12/11/91

> Job #: 72999

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project:

Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

> Total Petroleum Hydrocarbon Analysis EPA Method 5030 mq/Kq

<u>Lab ID</u>	<u>Client ID</u>	<u>Gasoline</u>	MDL
72999 - 1	2116-EW-14	170	6
72999-2	2116-C-16	780	60

QA/QC: Spike Recovery for Gasoline:

Method Detection Limit. Compound below this level would not be MDL: detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

可以成功。因此因此更多更多的原理教育的原理教育的原则是教育的原则是教育的原则是教育的原则。

Received: 11/07/91 Reported: 12/11/91

Job #: 72999

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72999-1	2116-EW-14	ND<0.03	0.03	2.7	0.03
72999-2	2116-C-16	0.83	0.03	15	0.03
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
72999-1	2116-EW-14	1.5	0.03	10	0.06
72999-2	2116-C-16	6.3		48	0.06

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/07/91

Reported: 12/11/91 Job #: 72999

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 93029

Project: Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

> Total Oil & Grease EPA Method 9071 mg/Kg

Lab ID	Client ID	Oil & Grease	MDL
72999 - 1	2116-EW-14	ND<50	50
72999-2	2116-C-16	ND<50	50

QA/QC: 72999-1: Spike Recovery: 87%

72999-2: Spike Recovery: 85%

MDL: Method Detection Limit. Compound below this level would

not be detected.

Laboratory Director

CHAIN OF CUSTODY

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2116-CF-18	-1		1 -			18 Ft down	CENTE	ER FLOOR	$\perp \!$	KAL-		\times		1-1			1=2" TUBE
2116-NW-16	11-7-91	1210	\times			162Ft. down 1	North	MALL	_ <u> ×</u>	1	_	$\frac{ \times }{ \times }$		1			1×2"TUBE
2116-SW-16	11.7-91	1215				162Ft. down			- <u>></u>	14	_ -		\square	1			1×2" TUBE
2116-EW-16	11-7-91	1220		-	-	16xFt, down	EAST.	LIAW	1			-		H		- 12	JANY"TUBE
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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

"从有限是14分别的在國際的"可以主義整理論可能的是整章的"對於的黃華的"在多別達象等語》中心

Received: 11/07/91 Reported: 12/11/91

Job #: 73000

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

Total Petroleum Hydrocarbon Analysis EPA Method 5030 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Gasoline</u>	MDL
73000-1	2116-WW-16	1.0	1.0
73000-2	2116-CF-18	6,800	60
73000-3	2116-NW-16	4,200	60
73000-4	2116-SW-16	3,200	60
73000-5	2116-EW-16	1.2	1.0

QA/QC: Spike Recovery for Gasoline: 95%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/07/91 Reported: 12/11/91

Job #: 73000

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

Lab ID	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
73000-1	2116-WW-16	ND<0.005	0.005	0.009	0.005
73000-2	2116-CF-18	40	0.3	440	0.3
73000-3	2116-NW-16	6.3	0.3	240	0.3
73000-4	2116-SW-16	1.8	0.3	100	0.3
72000-5	2116-EW-16	ND<0.005	0.005	0.040	0.005
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
73000-1	2116-WW-16	ND<0.005	0.005	0.029	0.005
73000-2	2116-CF-18	140	0.3	770	0.6
73000-3	2116-NW-16	100	0.3	550	0.6
73000-4	2116-SW-16	60	0.3	350	0.6
73000-5	2116-EW-16	0.008	0.005	0.048	0.005

QA/QC: Spike Recovery for Benzene: 67%

Spike Recovery for Toluene: 83% Spike Recovery for Xylene: 92%

MDL: Method Detection Limit. Compound below this level would not be

detected.

Jaime Chow

Laboratory Director

JC/vb

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

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Received: 11/07/91 Reported: 12/11/91

Job #: 73000

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Hayward

Matrix: Soil

Lead - Flame AA Method 7420 Preparation Method 3050 mg/Kg

<u>Lab ID</u>	Client ID	Total Lead	MDL
73000-1	2116-WW-16	4.0	3.75
73000-2	2116-CF-18	12.2	3.75
73000-3	2116-NW-16	11.0	3.75
73000-4	2116-SW-16	8.4	3.75
73000-5	2116-EW-16	ND<3.75	3.75

QA/QC: Spike Recovery: 102.6%

MDL: Method Detection Limit. Compound below this level would not be detected.

Ja**lme**≃Chow

Laboratory Director

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SAMPLERS: (Signatu	ire) ///	1.11	1	1	W.			ANA	ALYSIS QUESTED	7/	7	7./	7/	7/1
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2116-5-MW1	1	9:11	X		MWI	at 5' depth			X			1	_	
Z116-10-MW1	10	9:17	X		MWI	at 5' depth a+10'		<u> ×</u>			<u> </u>			
2116-15-MW1	13	9:25	X		MWI	at 15'		<u>\</u>			<u> </u>			
2116-20-MWI	9	9:35	X		diwl	at 20'		<u> `</u> `			1			
2116-25-MW1	,	9:44	\times		MWI	at 25'					<u> </u>		_ _	
2116-30-MW/	\	9:59	Х		MWI	at 30'		\geq			<u> </u>			
2116-35-MW1		10:08	Χ			at 35'		\times			$\geq $	1_1_		
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2116-45-MW1	M.	10:35	*		MWI	at 45'		\mathbb{X}			<u> </u>			
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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received:

11/04/91 12/02/91

Attn: George Wilson L & W Environmental

Reported:

Job #:

72982

2111 Jenning Street

San Francisco, CA 94124

Project:

Beck Roofing

231123 Meekland Avenue

Hayward

Matrix: Soil

> Total Petroleum Hydrocarbon Analysis EPA Method 5030

> > mg/Kg

<u>Lab ID</u>	Client ID	<u>Gasoline</u>	MDL
72982-1 72982-2 72982-3 72982-4 72982-5 72982-6 72982-7 72982-8	2116-5-MWI 2116-10-MWI 2116-15-MWI 2116-20-MWI 2116-25-MWI 2116-30-MWI 2116-35-MWI 2116-40-MWI	ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0	1.0 1.0 1.0 1.0 1.0 1.0
72982-9	2116 - 45-MWI	ND<1.0	1.0

QA/QC: Spike Recovery for Gasoline:

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

JC/vb

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 Reported: 12/02/91

Job #: 72982

Attn: George Wilson L & W Environmental 2111 Jenning Street

San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	Client ID	Benzene	MDL	<u>Toluene</u>	MDL
72982-1 72982-2 72982-3 72982-4 72982-5 72982-6	2116-5-MWI 2116-10-MWI 2116-15-MWI 2116-20-MWI 2116-25-MWI 2116-30-MWI	ND<0.005 ND<0.005 ND<0.005 ND<0.005 ND<0.005 ND<0.005	0.005 0.005 0.005 0.005 0.005	0.016 0.010 0.013 0.010 0.024 0.011	0.005 0.005 0.005 0.005 0.005
<u>Lab ID</u>	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
72982-1 72982-2 72982-3 72982-4 72982-5 72982-6	2116-5-MWI 2116-10-MWI 2116-15-MWI 2116-20-MWI 2116-25-MWI 2116-30-MWI	ND<0.005 ND<0.005 ND<0.005 ND<0.005 ND<0.005 ND<0.005	0.005 0.005 0.005 0.005 0.005	0.014 0.007 0.007 0.006 0.007 0.006	0.005 0.005 0.005 0.005 0.005

QA/QC: Spike Recovery for Benzene: 81%

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

Page 1 of 2

JC/vb

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91

Reported: 12/02/91 Job #: 72982

Attn: George Wilson L & W Environmental

Project: Beck Roofing

231123 Meekland Avenue

Hayward

Matrix: Soil

> Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	Client ID	<u>Benzene</u>	MDL	Toluene	MDL
72982-7	2116-35-MWI	ND<0.005	0.005	0.010	0.005
72982-8	2116-40-MWI	ND<0.005	0.005	0.016	0.005
72982-9	2116-45-MWI	ND<0.005	0.005	0.015	0.005
<u>Lab ID</u>	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
72982-7	2116-35-MWI	ND<0.005	0.005	0.006	0.005
72982-8	2116-40-MWI	ND<0.005	0.005	0.006	0.005
72982-9	2116-45-MWI	ND<0.005	0.005	0.006	0.005

QA/QC: Spike Recovery for Benzene: 81%

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

MDL: Method Detection Limit. Compound below this level would not be detected.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

20.00年2月15日,15月46年代的人,建筑是在12日的中央制度的10日的电影影響的10年6日的10日的10日的10日间,10日日

Received: 11/04/91 Reported: 12/02/91

Job #: 72982

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward

Matrix: Soil

Analysis Method EPA 6010 Preparation Method 3050 mg/Kg

<u>Lab ID</u>	Client ID	Total Lead	MDL
72982-1	2116-5-MWI	ND<3.00	3.00
72982-2	2116-10-MWI	ND<3.00	3.00
72982-3	2116-15-MWI	ND<3.00	3.00
72982-4	2116-20-MWI	ND<3.00	3.00
72982-5	2116-25-MWI	ND<3.00	3.00
72982-6	2116-30-MWI	5.00	3.00
72982-7	2116-35 -MW I	5.50	3.00
72982-8	2116-40-MWI	ND<3.00	3.00
72982-9	2116-45-MWI	4.3	3.00

QA/QC: Spike Recovery: 87%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

JC/vb

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i	<u></u>					<u>. L</u>						L&W	ENVIR	ONMENT A	AL SERVICES, INC

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

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Received:

11/04/91

Reported: Job #:

12/04/91 72984

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project:

Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix:

Soil

Total Petroleum Hydrocarbon Analysis EPA Method 5030 mg/Kg

Lab ID	Client ID	<u>Gasoline</u>	MDL
72984-1	2116-5-MW2	ND<1.0	1.0
72984-2	2116-10-MW2	ND<1.0	1.0
72984-3	2116-15-MW2	ND<1.0	1.0
72984-4	2116-20-MW2	ND<1.0	1.0
72984-5	2116-25-MW2	1.4	1.0
72984-6	2116-30-MW2	ND<1.0	1.0
72984-7	2116-35-MW2	ND<1.0	1.0

Spike Recovery for Gasoline: 106%

Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 Reported: 12/04/91

Job #: 72984

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72984-1	2116-5-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-2	2116-10-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-3	2116-15-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-4	2116-20-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-5	2116-25-MW2	0.10	0.005	0.085	0.005
72984-6	2116-30-MW2	0.044	0.005	0.008	0.005
72984-7	2116-35-MW2	0.006	0.005	ND<0.005	0.005
		Ethyl-			
<u>Lab ID</u>	Client ID	<u>benzene</u>	MDL	<u>Xylenes</u>	MDL
72984-1	2116-5-MW2	ND<0.005	0.005	ND<0.005	0.005

72984-1	2116-5-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-2	2116-10-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-3	2116-15-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-4	2116-20-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-5	2116-25-MW2	0.014	0.005	0.090	0.005
72984-6	2116-30-MW2	ND<0.005	0.005	ND<0.005	0.005
72984-7	2116-35-MW2	ND<0.005	0.005	ND<0.005	0.005

QA/QC: Spike Recovery for Benzene: 81% Spike Recovery for Toluene: 101%

Spike Recovery for Xylene: 104%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Čhow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

[1] "我们的"我们们",可以因为更加的"大型",就是是我们的"大型",我们就是这种"大型"的"大型"。

Received: 11/04/91 Reported: 12/04/91

Job #: 72984

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix: Soil

Analysis Method EPA 6010 Preparation Method 3050 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	Total Lead	MDL
72984~1	2116-5-MW2	ND<3.00	3.00
72984-2	2116-10-MW2	ND<3.00	3.00
72984-3	2116-15-MW2	ND<3.00	3.00
72984-4	2116-20-MW2	5.90	3.00
72984-5	2116-25-MW2	ND<3.00	3.00
72984-6	2116-30-MW2	ND<3.00	3.00
72984-7	2116-35-MW2	4.20	3.00

QA/QC: Spike Recovery: 90%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime/Chow

Laboratory Director

CHAIN OF CUSTODY SAMPLERS: (Signature) ANALYSIS THE THE PARTY OF T REQUESTED JOB NUMBER: 2116 B PROJECT NAME: (Printy DESCRIPTION: Soil Samples from 181 and BZ 21123 Mockland WATER CROSS Z IME SOIT REFERENCE DATE SAMPLE LOCATION NUMBER REMARKS Bl at 5' depth 9:10 X 246-5-B1 B1 at 10' 9:15 K 2116-16-131 9:27 B1 at 151 2116-15-B1 W 9:40 × B1 at 201 2116-20-131 × 9:50 B1 at 25' 2116-25-B1 10:50 4 BZ at 51 2116-5-BZ B2 at 10' 2116-10-BZ 11:12 X × BZ at 151 11:20 × 2116-15-82 B2 at 20' 2116-20-BZ 11:30 > BZ at 251 11:36 × 216-25-BZ BZ at 30/ 11:45 x × 2116-30-BZ RELINQUISHED BY: (Signature) > DATE //-/- 9/ RECEIVED BY: (Signature) DATE RELINOUISHED BY: (Signature) L'Orraine Nantouane RELINQUISHED BY: (Signature) 7.45am RECEIVED BY: (Signature) DATE RECEIVED BY: (Signature) TIME TIME RELINQUISHED BY: (Signature) DATE DATE TIME TIME RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE DATE TIME TIME

L&W ENVIRONMENTAL SERVICES, INC

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 Reported: 11/25/91

Job #: 72980

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland Avenue

Hayward, CA

Matrix: Soil

Total Petroleum Hydrocarbon Analysis EPA Method 5030 mg/Kg

Lab ID	Client ID	<u>Gasoline</u>	MDL
72980-1 72980-2 72980-3 72980-4 72980-5 72980-6 72980-7 72980-8 72980-9 72980-10	2116-5-B1 2116-10-B1 2116-15-B1 2116-20-B1 2116-25-B1 2116-5-B2 2116-10-B2 2116-15-B2 2116-20-B2 2116-25-B2	ND<1.0 ND<1.0 ND<1.0 5.7 8.8 ND<1.0 ND<1.0 ND<1.0	1.0 1.0 1.0 1.0 1.0 1.0 1.0
72980-11	2116-30 - B2	36	1.0

QA/QC: Spike Recovery for Gasoline: 102%

MDL: Method Detection Limit. Compound below this level would not be detected. /

Jaime Chov

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 11/19/91 Reported:

Job #: 72980

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland Avenue

Hayward, CA

Matrix: Soil

> Total Petroleum Hydrocarbon Analysis DHS Extraction Method (LUFT) mg/Kg

<u>Lab ID</u>	Client ID	<u>Diesel</u>	MDL
72980-1 72980-2 72980-3 72980-4 72980-5 72980-6 72980-7 72980-8 72980-9	2116-5-B1 2116-10-B1 2116-15-B1 2116-20-B1 2116-25-B1 2116-5-B2 2116-10-B2 2116-15-B2 2116-20-B2	ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0 ND<1.0	1.0 1.0 1.0 1.0 1.0 1.0
72980-10 72980-11	2116 -25-B2 2116-30-B2	ND<1.0 ND<1.0	1.0

QA/QC: Spike Recovery for Diesel: 73왕

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

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FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 11/25/91 Reported:

Job #: 72980

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland Avenue

Hayward, CA

Matrix:

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

Lab ID	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72980-1 72980-2 72980-3 72980-4 72980-5 72980-6	2116-5-B1 2116-10-B1 2116-15-B1 2116-20-B1 2116-25-B1 2116-5-B2	ND<0.005 ND<0.005 ND<0.005 0.250 0.14 ND<0.005	0.005 0.005 0.005 0.005 0.005	0.017 0.011 0.012 0.600 0.60 0.018	0.005 0.005 0.005 0.005 0.005
<u>Lab ID</u>	Client ID	Ethyl- <u>benzene</u>	MDL	Xylenes	MDL
72980-1 72980-2 72980-3 72980-4 72980-5 72980-6	2116-5-B1 2116-10-B1 2116-15-B1 2116-20-B1 2116-25-B1 2116-5-B2	ND<0.005 ND<0.005 ND<0.005 0.10 0.126 ND<0.005	0.005 0.005 0.005 0.005 0.005	ND<0.005 ND<0.005 ND<0.005 0.57 0.76 ND<0.005	0.005 0.005 0.005 0.005 0.005

QA/QC: Spike Recovery for Benzene: 81%

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

Method Detection Limit. MDL: Compound below this level would not be

detected.

Jaime Chow

Laboratory Director

Page 1 of 2

JC/td

OUTSTANDING QUALITY AND SERVICE CALIFORNIA STATE CERTIFIED LABORATORY

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 Reported: 11/25/91

Job #: 72980

George Wilson Attn: L & W Environmental

Project: Beck Roofing

21123 Meekland Avenue

Hayward, CA

Matrix: Soil

Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	<u>Client ID</u>	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72980-7	2116-10-B2	ND<0.005	0.005	0.013	0.005
72980-8	2116-15-B2	ND<0.005	0.005	0.006	0.005
72980-9	2116-20-B2	0.046	0.005	0.011	0.005
72980-10	2116-25-B2	0.44	0.005	1.2	0.005
72980-11	2116-30-B2	0.27	0.005	0.87	0.005
<u>Lab ID</u>	Client ID	Ethyl- <u>benzene</u>	MDL	<u>Xylenes</u>	MDL:
72980-7	2116-10-B2	ND<0.005	0.005	0.006	0.005
72980-8	2116-15-B2	ND<0.005	0.005	ND<0.005	0.005
72980-9	2116-20-B2	0.014	0.005	0.040	0.005
72980-10	2116-25-B2	0.32	0.005	1.80	0.005
72980-11	2116-30-B2	0.37	0.005	2.1	0.005

Spike Recovery for Benzene: QA/QC: 81%

Spike Recovery for Toluene: 95% Spike Recovery for Xylene: 102%

Method Detection Limit. Compound below this level would not be MDL: detected.

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

"以此"都是我们可以有种种的性质是是是是自己的,我们就是有意义的,也就是我们的,是是是是这个人

Received: 11/04/91 Reported: 11/19/91

Job #: 72980

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland Avenue

Hayward, CA

Matrix: Soil

> Analysis Method 6010 Preparation Method 3050 mg/Kg

Lab ID #	Client ID	Total Lead	MDL
72980-1 72980-2 72980-3 72980-4 72980-5 72980-6 72980-7	2116-5-B1 2116-10-B1 2116-15-B1 2116-20-B1 2116-25-B1 2116-5-B2 2116-10-B2	ND<3.00 ND<3.00 ND<3.00 5.82 4.20 ND<3.00 4.00	3.00 3.00 3.00 3.00 3.00 3.00
72980-8 72980-9 72980-10 72980-11	2116-15-B2 2116-20-B2 2116-25-B2 2116-30-B2	ND<3.00 ND<3.00 ND<3.00 ND<3.00	3.00 3.00 3.00 3.00

QA/QC: Spike Recovery:

Method Detection Limit. Compound below this level would not be MDL: detected.

Jaime Chow

Laboratory Director

CHAIN OF CUSTODY

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4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 12/04/91 Reported:

Job #: 72985

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix: Soil

> Total Petroleum Hydrocarbon Analysis EPA Method 5030 mg/Kg

<u>Lab ID</u>	Client ID	<u>Gasoline</u>	MDL
72985-1	2116-5-MW3	1.0	1.0
72985-2	2116-10-MW3	ND<1.0	1.0
72985-3	2116-15-MW3	ND<1.0	1.0
72985-4	2116-20-MW3	2.9	1.0
72985-5	2116-25-MW3	6.2	1.0
72985-6	2116-30-MW3	9.8	1.0
72985 - 7	2116-35-MW3	ND<1.0	1.0

Spike Recovery for Gasoline:

Method Detection Limit. Compound below this level would not be detected.

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

可能因此或此為實際的目標的過程可以可以與關鍵與關鍵的可以可以可以與關鍵與原因的原理可以可以可

Received: 11/04/91 12/04/91 Reported:

Job #: 72985

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix: Soil

> Aromatic Volatile Hydrocarbon Analysis EPA Method 8020 mg/Kg

<u>Lab ID</u>	<u> Client ID</u>	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72985-1 72985-2 72985-3 72985-4 72985-5 72985-6 72985-7	2116-5-MW3 2116-10-MW3 2116-15-MW3 2116-20-MW3 2116-25-MW3 2116-30-MW3 2116-35-MW3	ND<0.005 ND<0.005 ND<0.005 0.021 0.048 0.25 ND<0.005	0.005 0.005 0.005 0.005 0.005 0.005	0.018 ND<0.005 0.028 0.017 0.022 0.015 0.014	0.005 0.005 0.005 0.005 0.005 0.005
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	<u>Xylenes</u>	MDL
72985-1 72985-2 72985-3 72985-4 72985-5 72985-6	2116-5-MW3 2116-10-MW3 2116-15-MW3 2116-20-MW3 2116-25-MW3 2116-30-MW3	ND<0.005 ND<0.005 ND<0.005 0.006 0.012 0.048	0.005 0.005 0.005 0.005 0.005	ND<0.005 ND<0.005 ND<0.005 0.025 0.056 0.26	0.005 0.005 0.005 0.005 0.005 0.005

Spike Recovery for Benzene: QA/QC: 81%

2116-35-MW3

Spike Recovery for Toluene: 101% Spike Recovery for Xylene: 104%

Method Detection Limit. Compound below this level would not be detected.

0.005

ND<0.005

ND<0.005

72985-7

Laboratory Director

JC/td

0.005

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/04/91 Reported: 12/04/91

Job #: 72985

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

231123 Meekland Avenue

Hayward, CA

Matrix: Soil

Analysis Method EPA 6010 Preparation Method 3050 mg/Kg

<u>Lab ID</u>	Client ID	Total Lead	MDL
72985-1	2116-5-MW3	ND<3.00	3.00
72985-2	2116-10-MW3	3.60	3.00
72985-3	2116-15-MW3	3.60	3.00
72985-4	2116-20-MW3	5.80	3.00
72985-5	2116-25-MW3	ND<3.00	3.00
72985-6	2116-30-MW3	3.90	3.00
72985-7	2116-35-MW3	3.75	3.00

QA/QC: Spike Recovery: 84%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

CHAIN OF CUSTODY ANALYSIS SAMPLERS: (Signature) STATE OF THE PARTY REQUESTED JOB NUMBER: 2116 PROJECT NAME: (Print) DESCRIPTION: Monitor GROUM ADDRESS: 21123 MECKLAND WATER **CROSS** SOIL TIME SAMPLE LOCATION DATE REFERENCE REMARKS NUMBER 1 Lit 4Ups 32.30 Ft mwI 1310 11-4-91 2116-mw) 12:14UDA 32.40 Ft. muz 1330 11-4-91 ZIIb-MWZ 36.7400A mwa 32.30 1320 11-4-91 2116-MW3 DATE RELINQUISHED BY: (Signature) RECEIVED BY: (Signature) DATE RECEIVED BY: (Signature) TIME RELEMQUISHED BY: (Signature) TIME TIME RECEIVED BY: (Signature) DATE RELINQUISHED BY: (Signature) DATE TIME TIME RECEIVED BY: (Signature) DATE RELINQUISHED BY: (Signature) DATE TIME TIME DATE RECEIVED BY: (Signature) RELINQUISHED BY: (Signature) DATE TIME TIME L&W ENVIRONMENTAL SERVICES, INC.

Precision Analytical Laboratory, Inc. িনালীৰ নামান্ত্ৰপ্ৰতিষ্ঠানে বিভালিক কৈছিল প্ৰাৰ্থ প্ৰস্তুত্বিষ্ঠাই স্থান্ত কৰিছে কি কি কিছিছিল। কি প্ৰাৰ্থ ইনিক চিন্ত

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002 FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/05/91 11/26/91 Reported: Job #: 72991

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Matrix: Water

> Total Petroleum Hydrocarbon Analysis EPA Method 5030 $\mu g/L$

<u>Lab ID</u>	Client ID	<u>Gasoline</u>	MDL
72991-1	2116-MW1	ND<50	50
72991-2	2116-MW2	ND<50	50
72991-3	2116-MW3	ND<50	50

Spike Recovery for Gasoline: 84% QA/QC:

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

Received: 11/05/91 Reported: 11/26/91 Job #: 72991

阿利尼人名俄德英斯马尔古英国葡萄根阿利利的安全国的人的海南西部的西方西部里西西州

Attn: George Wilson
L & W Environmental

L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project: Beck Roofing

21123 Meekland

Matrix: Water

Aromatic Volatile Hydrocarbon Analysis EPA Method 602 $\mu g/L$

Lab ID	Client ID	<u>Benzene</u>	MDL	<u>Toluene</u>	MDL
72991-1	2116-MW1	ND<0.3	0.3	ND<0.3	0.3
72991-2	2116-MW2	ND<0.3	0.3	ND<0.3	0.3
72991-3	2116-MW3	ND<0.3	0.3	ND<0.3	0.3
Lab ID	Client ID	Ethyl- <u>benzene</u>	MDL	<u>Xylenes</u>	MDL
72991-1	2116-MW1	ND<0.3	0.3	ND<0.6	0.6
72991-2	2116-MW2	ND<0.3	0.3	ND<0.6	0.6
72991-3	2116-MW3	ND<0.3	0.3	ND<0.6	0.6

QA/QC: Spike Recovery for Benzene: 112%

Spike Recovery for Toluene: 116% Spike Recovery for Xylene: 112%

MDL: Method Detection Limit. Compound below this level would not be detected.

Jaime_Chow

Laboratory Director

4136 LAKESIDE DRIVE, RICHMOND, CA 94806

PHONE (510) 222-3002

FAX (510) 222-1251

CERTIFICATE OF ANALYSIS

STATE LICENSE NO. E 750

是是人工主义的基础的人,可可可能是对对对自己的数据的对象的。

Received:

11/05/91

Reported:

11/26/91

Job #:

72991

Attn: George Wilson L & W Environmental 2111 Jennings Street San Francisco, CA 94124

Project:

Beck Roofing

21123 Meekland

Matrix: Water

Analysis Method EPA 6010 Preparation Method 3010 mg/L

Lab ID	Client ID	Total Lead	$\underline{\mathtt{MDL}}$
72991-1	2116-MW1	ND<0.06	0.06
72991-2	2116-MW2	ND<0.06	0.06
72991-3	2116-MW3	ND<0.06	0.06

QA/QC: Spike Recovery: 90%

MDL: Method Detection Limit. Compound below this level would not

be detected.

Jaime Chow

Laboratory Director

APPENDIX C

Water Well Drillers Reports

BECK ROOFING 21123 MEEKLAND AVENUE HAYWARD, CALIFORNIA

> L&W Project 2116 January 7, 1992

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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APPENDIX D

Field Logs

BECK ROOFING 21123 MEEKLAND AVENUE HAYWARD, CALIFORNIA

> L&W Project 2116 January 7, 1992

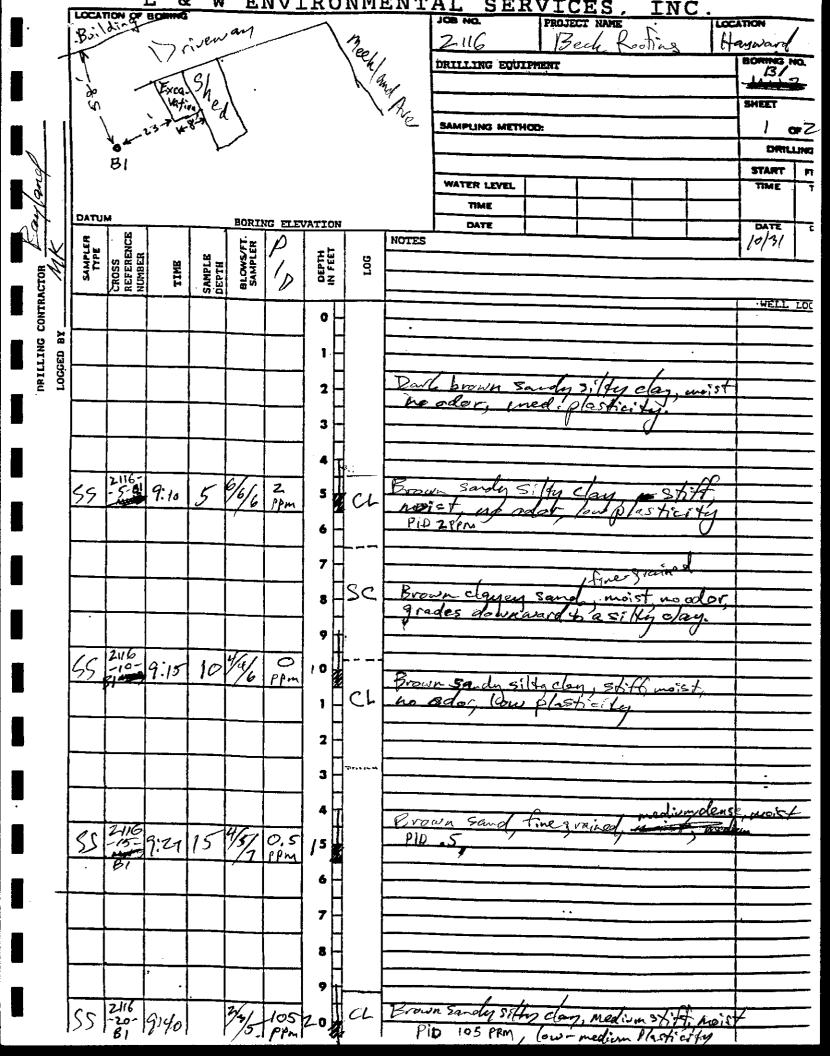
PRILLING CONTRACTOR

LOCATION OF BOX 108 NO. PROJECT NAME 2116 See p.1. DRILLING EQUIPMENT SAMPLING METHOD: DRILLING See pil For map WATER LEVEL TIME BORING ELEVATION DATE CROSS REFERENCE HUMBER NOTES PRILLING CONTRACTOR LOCCED BY 2116 -25 <u>55</u> 9.44 25 25 SS 2116 Mysi 9:59 30 30 Band las before Wet. 2118-10:08 35

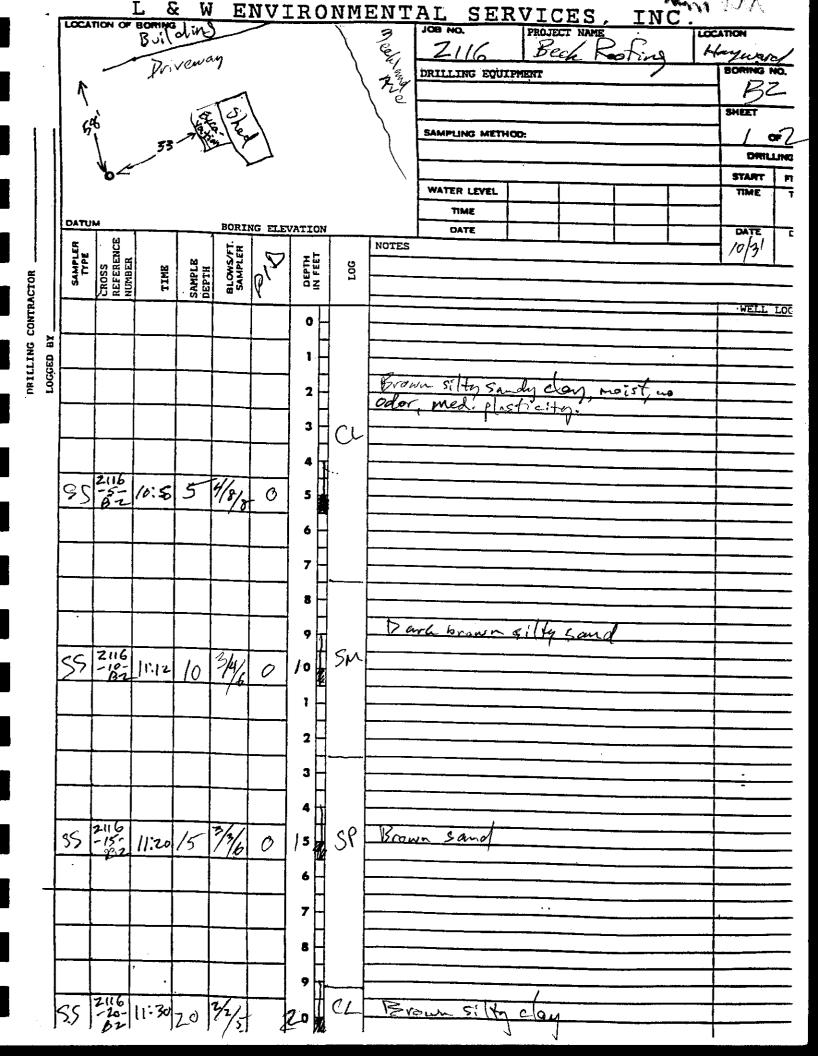
108 NO. Beck Roofing Hayward 2116 DRILLING EQUIPMENT SAMPLING METHOD: DRILLING START FIP WATER LEVEL See p. 1 for Map BORING ELEVATION TIME DATE DATE Ď. SAMPLER TYPE CROSS REFERENCE NUMBER NOTES BLOWS/FT. SAMPLER DEPTH IN FEET SAMPLE DEPTH 507 PRILLING CONTRACTOR 0 roccen by and 1 CL 2 3 211B -45. MW 76h 55 10:35 45 45 6 SP donse 7 Q 1 2 3 5

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PROJECT NAME Beck Roofing LOCATION 2116B Building DRILLING EQUIPMENT SAMPLING METHOD: START WATER LEVEL TIME BORING ELEVATION STAG CROSS REFERENCE NUMBER SAMPLER TYPE NOTES BLOWS/FT. SAMPLER DEPTH IN FEET SAMPLE DEPTH 100 PRILLING CONTRACTOR LOCCED BY 2116 -5-MW3 1:15 2116 -10-MV3 S 1:25 10 0.5)o SM 2116 -15-murz 15 1:35 1.5 1:50 20 2/3 45 20 Brown gifty clay the medium skit, moist, medium plasticity.

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