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35 So. Linden Avenue, South San Francisco, CA 94080-6407

Tel: (650) 952-5551

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Tank Testing: (650) 952-0327

install 2 ald 1 mos. More Md-5 further work.

April 1, 1999

Ms. Eva Chu Hazardous Materials Specialist Alameda County Health Agency Division of Environmental Protection 1131 Harbor Bay Parkway, 2nd Floor Alameda, CA 94502

SUBJECT:

SUBSURFACE INVESTIGATION AND MONITORING WELL SAMPLING EPISODE AT 1435

WEBSTER STREET IN ALAMEDA, CALIFORNIA

Dear Ms. Chu:

Accutite Environmental Engineering is pleased to submit the enclosed report on advancing four borings and sampling three monitoring wells at the former gasoline station, located at 1435 Webster Street in Alameda, California. For a speedy review of the findings, please review the conclusion and recommendation sections of the report.

Thank you for your cooperation. If you have any questions, please call me at (650) 952-5551, Ext. 209.

Sincerely,

Accutite-Environmental Engineering

Sami Malaeb, R.E. R.E.

Project Manager

CC:

Mr. Dan Koch, Olympian, 260 Michelle Court, South San Francisco, CA 94080

Mr. David Harris, Esq., Trump, Alioto, Trump & Prescott, LLP, 2280 Union Street, San

Francisco, CA 94123

Mr. Jeff Farrar, 3100 Cohasset Road, Chico, CA 95973



Accutite Environmental Engineering

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SUBSURFACE INVESTIGATION & MONITORING WELL SAMPLING EPISODE

AT

FORMER GASOLINE STATION 1435 WEBSTER STREET ALAMEDA, CALIFORNIA

PREPARED BY:
ACCUTITE ENVIRONMENTAL ENGINEERING

FOR: OLYMPIAN

APRIL 1, 1999



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1.0 INTRODUCTION

Accutite Environmental Engineering (Accutite) was retained by Olympian to perform a subsurface investigation and sample the existing monitoring wells at the former gasoline station, 1435 Webster Street in Alameda, California. Please refer to the attached Figure 1 for site location. The work was performed according to Accutite's workplan dated October 2, 1998. Ms. Eva Chu, of the Alameda County Health Care Services (ACHCS) approved the workplan by a letter dated October 22, 1998. The work included advancing four direct push borings with sampling and analysis of the soil and groundwater, and sampling the existing three monitoring wells with analysis of the groundwater.

2.0 BACKGROUND AND PURPOSE

The subject site is located on the northwest corner of Webster Street and Taylor Avenue in the City of Alameda, California. The subject site had operated as a gasoline service station until 1988. Presently, the site is a city, metered parking lot. The depth to groundwater on site varied historically between 7 and 12 feet below surface grade, and the groundwater flow direction varied from the northeast to southeast. Soil on site is mostly a mixture of brown sand and gravel.

The site was a home of four underground storage tanks (USTs). These tanks were as follows:

- Two 10,000-gallon gasoline USTs
- One 7,500-gallon diesel UST
- One 300-gallon waste oil UST

Please see Figure 3 for the location of the USTs. All USTs were removed in September 1989. Following the UST removal, the collected soil samples detected a maximum of 220 parts per million (ppm) Total Petroleum Hydrocarbons as Gasoline (TPH-G), 430 ppm Total Petroleum Hydrocarbons as Diesel (TPH-D), and 650 ppm of Total Recoverable Petroleum Hydrocarbons as Oil and Grease (TRPH).

In January 1991, approximately 550 cubic yards of soil, impacted with gasoline and diesel, were excavated from the former UST excavation and biologically treated by Uriah Environmental Services, Inc.

In January 1993, three monitoring wells (MW-1, MW-2, and MW-3) were installed at the subject site. To date, these wells have been sampled for a total of eight episodes. Noticeable concentrations of TPH-D, TPH-G, Benzene, Toluene, Ethylbenzene, and Xylenes (BTEX) and Methyl-t-butyl ether (MTBE) have been detected in MW-1. Please see the cumulative analytical results in Table 2 of this report. At the request of ACHCS, further groundwater assessment was performed by advancing four borings and sampling the existing three monitoring wells onsite. Below we detail the latest sampling of the wells, completed on February 11, 1999, and the advancing of four borings.

3.0 MONITORING WELL SAMPLING

On February 11, 1999, Accutite purged and collected groundwater samples from MW-1, MW-2, and MW-3. The sampling logs are provided in Appendix A. Prior to sampling, depth to water measurements were taken for each well and the groundwater flow direction/gradient was calculated. Groundwater samples were collected using a disposable bailer and transferred into clean, laboratory certified VOA vials and jars. All samples were labeled, placed on blue ice (approximately 4°C), and transported under a chain of custody, within 24 hours, to North State Environmental (a State of California certified laboratory) for analysis.



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4.0 ELEVATION DATA AND GROUND WATER FLOW DIRECTION

On February 11, 1999, prior to sampling, Accutite surveyed the groundwater elevations in all three wells. The reference mark considered as a base for calculating these elevations was a fire hydrant, located on the sidewalk of Webster Street (Figure 2).

The calculated groundwater flow direction was to the southeast (Figure 2) with a gradient of 0.0078 ft/ft. Table 1 below summarizes the elevation data from 02/11/99:

Table 1 Elevation Data

Well Identification	Elevation of Casing in ft	Depth to Ground- Water in ft on February 11, 1999	Ground Water Elevation in ft
MW-1	19.53	7.91	11.62
MW-2	19.80	8.12	11.68
MW-3	19.79	7.77	12.02

5.0 LABORATORY RESULTS FROM THE MONITORING WELLS

The groundwater samples were analyzed using the following United State Environmental Protection Agency (USEPA) Methods:

- USEPA Method 8010M for total petroleum hydrocarbons as gasoline (TPH-G);
- USEPA Method 8020 for benzene, toluene, ethylbenzene, and xylenes (BTEX);
- USEPA Method 8020 for methyl-t-butyl ether (MTBE);
- USEPA Method 8015M for total petroleum hydrocarbons as diesel (TPH-D); and
- USEPA Method 7420, AA spectroscopy for total Lead (Pb);

The laboratory report is included in Appendix B. See Figure 3. The cumulative laboratory results are summarized in Table 2 below:



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TABLE 2 CUMULATIVE GROUNDWATER ANALYTICAL RESULTS

Sample ID	Date Of	Depth to	TPH-D (1)	TPH-G (3)	Benzene	Toluene	Ethyl Benzene	Xylenes	MTBE (4)	TRPH ⁽⁵⁾
	Sampling	Water (ft)	in ppb ⁽²⁾	in ppb	in ppb	in ppb	in ppb	in ppb	in ppb	ppm (6)
MW-1	6/03/93	N/A ⁽⁷⁾	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>	9/14/94	11.46	<50	14,000	44	28	25	50	NA (8)	0.8
	12/30/94	9.22	<50	4,000	12	9	6.8	30	NA (8)	<0.5
	3/26/95	6.76	<50	1,000	21	10	7.1	25	NA (8)	2.1
	07/9/95	8.92	<50	16,000	57	28	25	53	NA (8)	NA
	07/31/98	8.30	1,700	4,700	1,300	48	140	150	6,600	<5
	02/11/99	7.91	2000	25,000	18,000	1,600	1,400	500	28,000	NA ⁽⁸⁾
MW-2	6/03/93	9.54	<50	<50	5.8	<0.5	<0.5	<0.5	N/A	<0.5
	9/14/94	11.82	<50	<50	<0.5	<0.5	<0.5	<0.5	NA (8)	<0.5
	12/30/94	9.46	<50	160	1.4	1.4	0.8	5.0	NA (8)	<0.5
	3/26/95	6.82	<50	<50	<0.5	<0.5	<0.5	<0.5	NA (8)	<0.5
	07/9/95	9.22	NA	NA	NA	NA	NA	NA	NA ⁽⁸⁾	NA
	07/31/98	8.56	220	<50	<0.5	<0.5	<0.5	<0.5	73	<5
	02/11/99	8.12	<50	<50	<0.5	<0.5	<0.5	<0.5	75	NA ⁽⁸⁾
MW-3	6/03/93	9.80	<50	<50	<0.5	<0.5	<0.5	<0.5	N/A	<0.5
· <u>-</u> -	9/14/94	12.19	<50	<50	<0.5	<0.5	<0.5	<0.5	NA (8)	<0.5
	12/30/94	9.72	<50	<50	<0.5	<0.5	<0.5	<0.5	NA (8)	<0.5
	3/26/95	6.88	<50	<50	<0.5	<0.5	<0.5	<0.5	NA ⁽⁸⁾	<0.5
	07/9/95	9.52	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾	N/A ⁽⁷⁾
	07/31/98	8.40	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	<5
	02/11/99	7.77	<50	<50	<0.5	<0.5	<0.5	<0.5	<0.5	NA ⁽⁸⁾

- (1) TPH-D = Total Petroleum Hydrocarbons as Diesel
- (2) ppb = part per billion or microgram per liter
- (3) TPH-G = Total Petroleum Hydrocarbons as Gasoline
- (4) MTBE = Methyl tertiatry butyl ether. Confirmed using GC/MS, EPA Method 8260
- (5) TRPH = Total Recoverable Petroleum Hydrocarbons as Oil and Grease
- (6) ppm = part per million or milligram per liter
- (7) Well was not accessible because of a parking car in its location
- (8) Not analyzed for the indicated compound

6.0 SUBSURFACE INVESTIGATION BY PERFORMING DIRECT PUSH BORINGS

To advance the borings, Accutite contracted Vironex Environmental Field Services to advance four (4) borings (see the attached Figure 3). On February 11, 1998, Four borings (4) borings (B1 through B4) were extended to a depth of approximately 15 feet bgs, using the Geoprobe system. The soil was mostly sand. Signs of contamination, such as staining and odor of hydrocarbons are recorded on the boring logs in Appendix C. Please see the attached drilling and encroachment permits in Appendix D.

7.0 LABORATORY RESULTS FROM THE BORINGS

A minimum of two soil samples were collected from each boring. One sample was collected from the shallow soil at 4 feet bgs and another soil sample was collected at the soil-groundwater interface. One groundwater sample was collected from each boring. The standard procedures for the soil and groundwater sampling were attached to the workplan, dated October 2, 1998. The



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samples were analyzed for the following contaminants: TPH-D, TPH-G, BTEX and MTBE, and Total Lead (Pb).

The laboratory report is included in Appendix B. The attached Figure 3 depicts the groundwater analytical results. The laboratory results are also summarized in Tables 3 and 4 below:

TABLE 3 ANALYTICAL RESULTS OF THE SOIL SAMPLES FROM THE BORINGS

Sample Sampling ID Date	TIPH-D ppm*	TPH-G	Benzene ppm	Toluene ppm	Ethyl- benzene ppm	Xylenes ppm	MTBE ppm	Total Lead (Pb) ppm
B1+7.5 02/11/99	<1.0	0.65	<0.005	<0.005	<0.005	<0.010	<0.005	<1.0
B2-7.5' 02/11/99	<0.5	<0.5	<0.005	<0.005	<0.005	<0.010	<0.005	2.0
B3-6.0' 02/11/99	<0.5	<0.5	<0.005	<0.005	<0.005	<0.010	<0.005	1.2
B4-7.5 02/11/99	<0.5	<0.5	<0.005	<0.005	<0.005	<0.010	<0.005	1.2

*ppm = part per million or mg/kg

TABLE 4 ANALYTICAL RESULTS OF THE GROUNDWATER SAMPLES FROM THE BORINGS

Sample Sampling ID Date	TRH-D ppb*	TPH-G ppb	Benzene ppb	Toluene ppb	Ethyl- benzene ppb	Xylenes ppb	МТВЕ ppb	Total Lead (Pb) ppm**
B1-W 02/11/99	9000***	8,200	1,400	.130	290	1,300	320	1.1
B2-W 02/11/99	<50	340	34	0.70	1.20	1.20	6,000****	0.51
B3-W 02/11/99	7,000***	38,000	2,000	3,700	1,600	6,300	750****	1.7
B4-W 02/11/99	9000***	33,000	460	2,300	1,500	8,300	110****	1.4

^{*}ppb = part per billion or µg/l

8.0 <u>DISCUSSION OF RESULTS AND CONCLUSIONS</u>

- The depth to groundwater is between 7.7 and 8.2 feet below ground surface. The calculated groundwater flow direction is toward the southeast with a gradient of 0.0078 ft/ft.
- The groundwater sample collected from MW-1 detected noticeable concentrations of TPH-D, TPH-G, BTEX, and MTBE (the highest to date). TPH-G was detected at 25,000 ppb, Benzene was detected at 18,000 ppb, and MTBE was detected at 28,000 ppb. MTBE was confirmed, using the GC/MS EPA Method 8260. These high concentrations could be attributed to the sampling of the wells during the wet season and the seasonal rise of the groundwater table. The fact that MTBE was detected at 28,000 ppb compared to TPH-G at 25,000 ppb may explain that gasoline is biodegrading at a faster rate than MTBE.
- MW-2 and MW-3 did not detect any significant concentration of TPH-G, TPH-D, BTEX, or MTBE.
- The soil samples, collected from the soil borings did not detect any significant concentration of TPH-G, TPH-D, BTEX, or MTBE.
- No significant lead (Pb) concentration was detected in any of the soil or groundwater samples.



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^{**}ppm = part per million or mg/kg

^{***}Pattern does not match diesel

^{****}Sample with highest concentration of MTBE was confirmed, using the GC/MS, EPA Method 8260

 Groundwater analysis from Borings B1, B3, and B4 (Figure 3), drilled onsite, detected noticeable concentrations of TPH-D, TPH-G, BTEX, and MTBE. The maximum gasoline (TPH-G) concentration of 38,000 ppb, was detected in B3. The maximum concentration of benzene at 2,000 ppb, was also detected in B3. The maximum concentration of MTBE of 6,000 ppb, was detected in B2.

9.0 **RECOMMENDATIONS**

Based on the analytical findings and field observations, Accutite recommends the following:

- Since the former underground storage tank systems at this site have long been removed, and since the groundwater concentrations of TPH-G, BTEX, MTBE, and TPH-D are on the increase, it is prudent to investigate possible offsite source(s) of Petroleum Hydrocarbons. An enlarged figure, showing the site vicinity, will enhance the offsite assessment of such sources.
- To install two additional monitoring wells on site, in the indicated locations of Figure 4. One
 monitoring well MW-4, directly downgradient from the former USTs and MW-5, in the vicinity
 of the former gasoline dispenser, where high concentrations of petroleum hydrocarbons were
 detected.
- To continue sampling the existing and proposed wells onsite for additional four quarters. The analytical findings from these wells will assess the stability of the plume onsite.

10.0 LIMITATIONS

Our services consist of professional opinions; conclusions and recommendations made today in accordance with generally accepted engineering principles and practices. This warranty is in lieu of all other warranties either expressed or implied. Accutite's liability is limited to the dollar amount of the work performed.

Thank you for the opportunity to provide you with our services. If you have any questions, please call me at (650) 952-5551. Ext. 208.

Sincerely,

Accutite Environmental Engineering

Sami Malaeb, P.E., R.E.A.

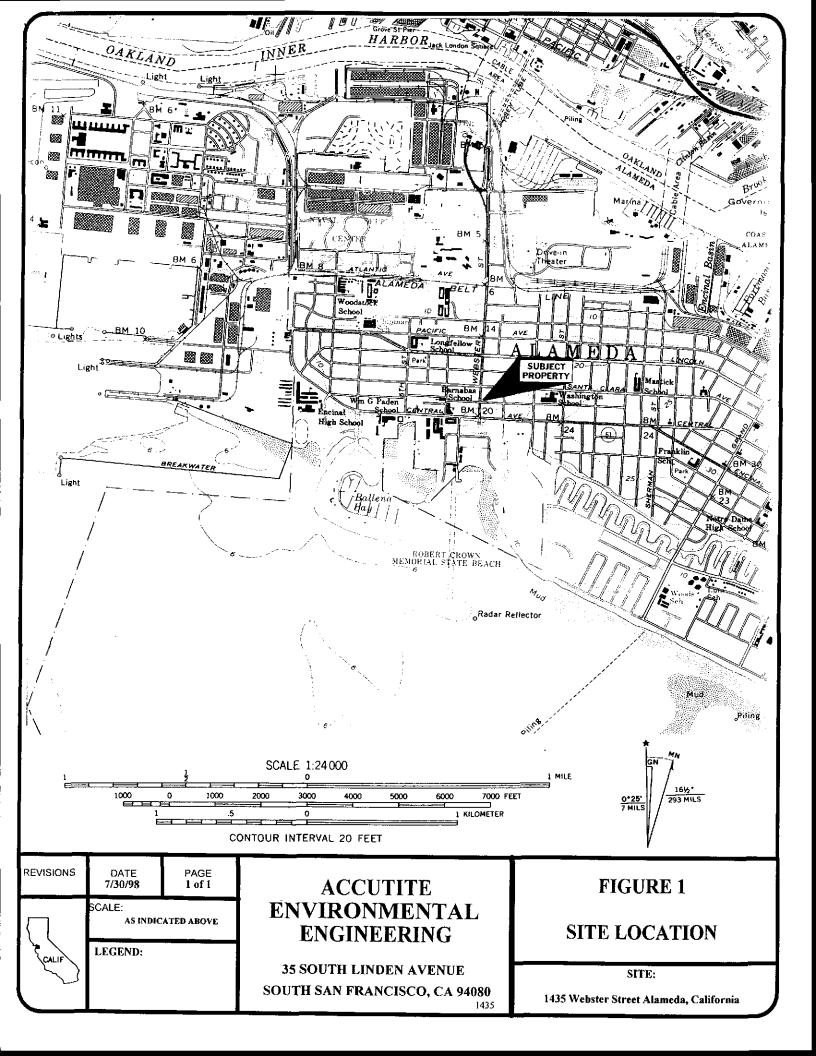
Project Manager

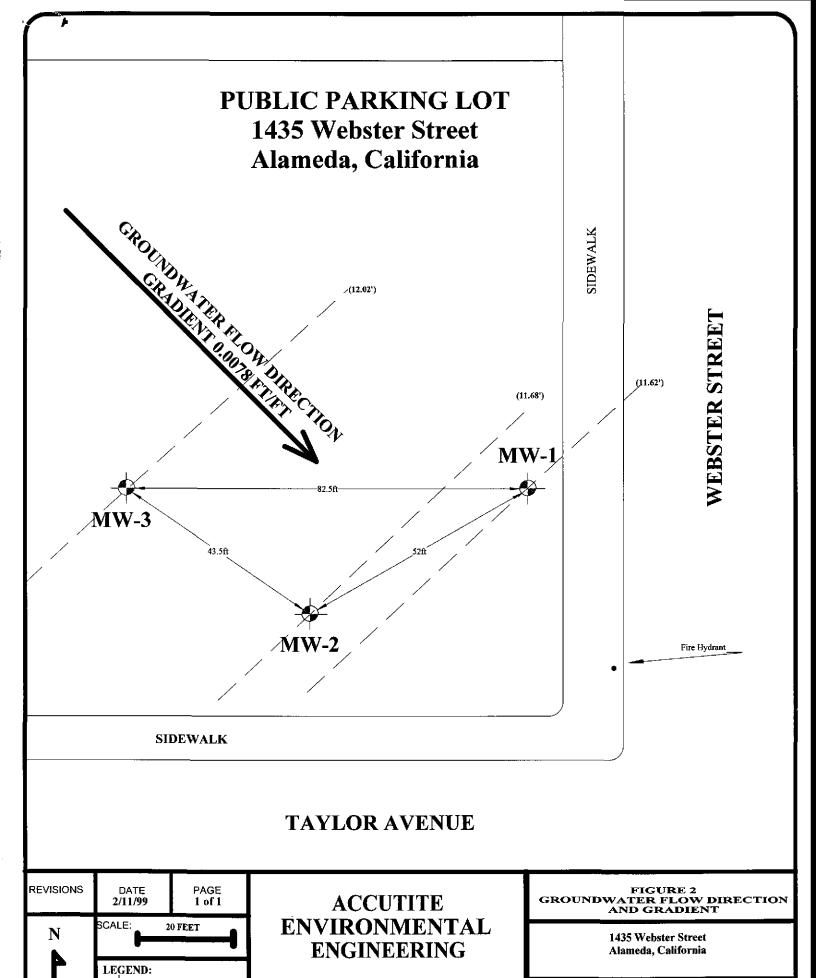
Report reviewed by

Éddy Tabet, P.E.,

General Manager



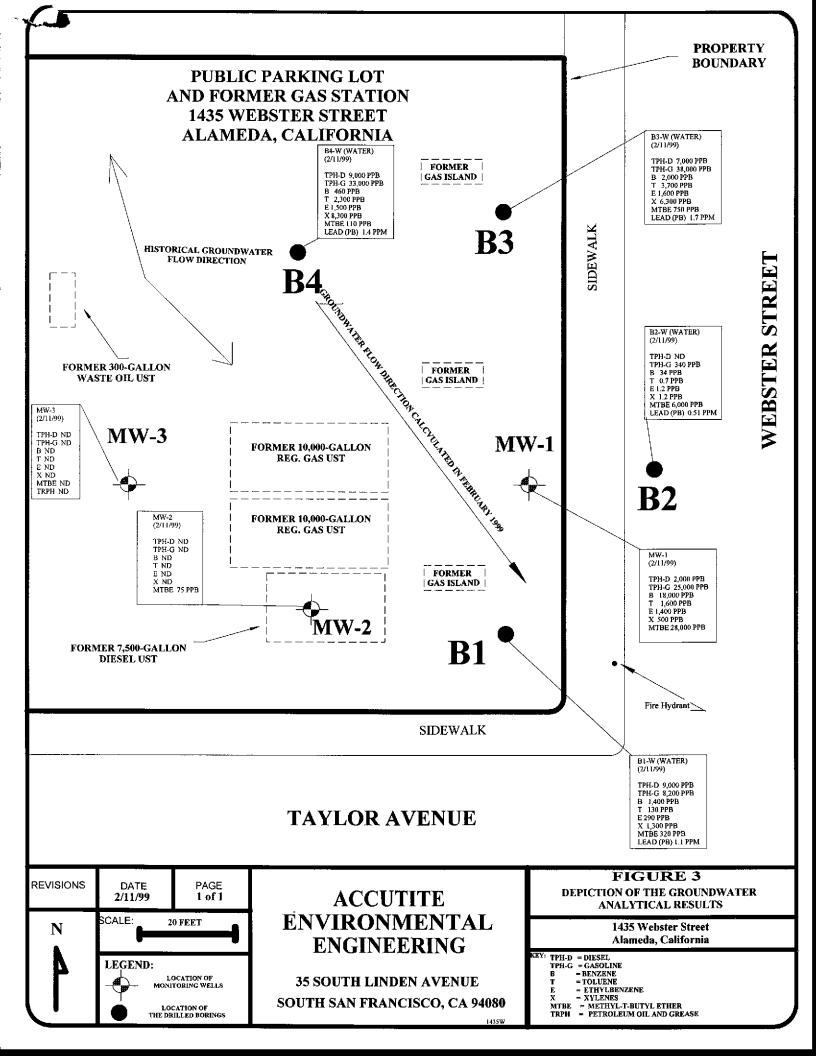


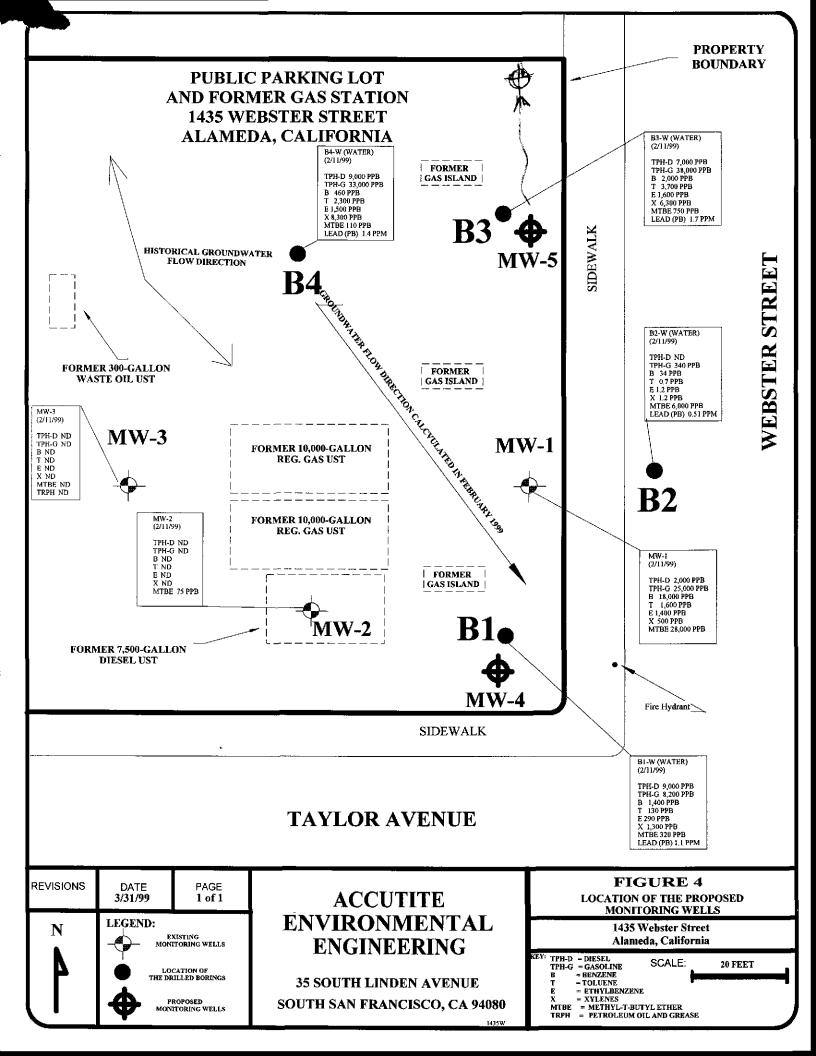


35 SOUTH LINDEN AVENUE

SOUTH SAN FRANCISCO, CA 94080

LOCATION OF MONITORING WELLS





APPENDIX A MONITORING WELL SAMPLING LOGS



WATER SAMPLING FORM

CLIENT: OLYMPIAN ADDRESS: 1435 Webster Ofreet, Alameda

WELL # TESTED MW-1

To convert water column height to total amount of gallons in one (1) well volume, multiply the water colum height by A.

WELL DIAMETER	A	
2"	0.17	
3-	0.36	,
4"	0.65	

TOTAL WELL DEPTH 25
- DEPTH TO WATER 7.9/ 5.//
= WATER COLUM HEIGHT /209 x A = 2.90 GAL (1 well volume) Multiply one (1) well volume by three (3) to obtain the minimum # of gallons to be extracted before taking well sample(s)

 $3 \times 2.9 = 8.7$ (3 well volume)

TIME:

WATER LEVEL:

TIME

GALS PUMPEO	TEMPOC	Rel COND.	РН
1.5	15.1	89	7.15
3.0	16.9	5.0	7.08
40	17.0	0.4	7.00
6.0	16.2	1.0	6.98
7.5	16.3	2.4	6.95
			
			•
			

Time:

Volume Pumped Sampler

Sheen or inches of free product Analyzed for:

WATER SAMPLING FORM

CLIENT: OLYN	1931N 35 Websten			_
ADDRESS: /#3	35 Websten	SF.	Alameda,	(1)
WELL # TESTED.	MW-2		•	

To convert water column height to total amount of gallons in one (1) well volume, multiply the water colum height by A.

WELL DIAMETER	IA	
2-	0.17	
3"	0.36	
4"	0.65	

TOTAL WELL DEPTH 25
DEPTH TO WATER 8.12
WATER COLUM HEIGHT 16.88 XA = 2.87
GAL (1 well volume)

Multiply one (1) well volume by three (3) to obtain the minimum # of gallons to be extracted before taking well sample(s)

3 x 2.87 = 8.6 (3 well volume)

DATE, 02/4/99 TIME: WATER LEVEL:

ТІМЕ	GALS PUMPED	TEMPOC	COND.	РH
	1.5	13.6	11.9	7.20
	3.0	<u> </u>	9.5	7./7
	4.5	17.2	9.0	7.15
	6.0	17.5	9.4	7.66
	-			
				
				
				

Time:

Volume Pumped

Sampler ALBERT SIMMONS

Sheen or inches of free product Analyzed for:

WATER SAMPLING FORM

CLIENT: OLYMPIAN ADDRESS: 1435 Websten Street, Alameda, CA WELL # TESTED.

To convert water column height to total amount of gallons in one (1) well volume, multiply the water colum height by A.

WELL DIAMETER	Α
2"	0.17
3-	0.36
4"	0.65

TOTAL WELL DEPTH

DEPTH TO WATER

= WATER COLUM HEIGHT 17 23

GAL (1 well volume)

Multiply one (1) well volume by three (3) to obtain the minimum # of gallons to be extracted before taking well sample(s)

 $3 \times 2.93 = 8.80$ (3 well volume)

DATE 02/11/85

TIME:

WATER LEVEL

TIME:	GALS PUMPED	TEMP ₀	Re/ COND.	PH
	1.5	16.2	42.6	7.73
	3.0	15.9	<u>35. 4</u>	7.61
	4.5	16.3	<u>31. 1</u>	7.54
	6.0	16.7	27.7	7.48
	 			
			.	·

Time:

Volume Pumped

Sampler ALBERT GIMMONS

Sheen or inches of free product Analyzed for:

APPENDIX B LABORATORY RESULTS





Lab Number:

99-0197

Client:

Accutite Envir. Engin.

Project:

148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte 1	Method	Result	<u>Unit</u>	Date Sampled	<u> Date Analyzed</u>
Sample: 99-01	97-01 Clie	nt ID: B1-	7.5'	02/11/99	SOIL
Gasoline	8015M	0.65	mg/Kg		02/18/99
Benzene	8020	ND	,		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Lead	7420	ND			02/17/99
Diesel	8015M	ND			02/18/99
Sample: 99-01	97-02 Clie	nt ID: B2-	7.5'	02/11/99	SOIL
Sample: 99-01	97-02 Clie 8015M	nt ID: B2-	7.5'	02/11/99	SOIL 02/18/99
			7.5'	02/11/99	
Gasoline	8015M 8020	ND	7.5'	02/11/99	
Gasoline Benzene	8015M 8020	ND ND	7.5'	02/11/99	
Gasoline Benzene Ethylbenzene	8015M 8020 8020	ND ND ND	7.5'	02/11/99	
Gasoline Benzene Ethylbenzene MTBE	8015M 8020 8020 8020	ND ND ND ND	7.5'	02/11/99	02/18/99
Gasoline Benzene Ethylbenzene MTBE Toluene	8015M 8020 8020 8020 8020	ND ND ND ND ND	7.5' mg/Kg	02/11/99	

1

^{*}Pattern does not match diesel **Confirmed by GC/MS
P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950



Lab Number:

99-0197

Client:

Accutite Envir. Engin.

Project:

148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte	Method	Result	Unit _	Date Sampled	Date Analyzed
Sample: 99-01				02/11/99	SOIL
Gasoline	8015M	ND			02/18/99
Benzene	8020	ND	•		
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Lead	7420	1.2	mg/Kg		02/17/99
Diesel	8015M	ND			02/18/99
Sample: 99-01	97-04 Cli	ent ID: B4-	-7.5'	02/11/99	SOIL
Gasoline	8015M	ND			02/18/99
Benzene	8020	N D			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
Xylenes	8020	ND			
Lead	7420	1.2	mg/Kg		02/17/99
Diesel	8015M	ND			02/18/99

^{*}Pattern does not match diesel **Confirmed by GC/MS P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950



Lab Number:

99-0197

Client:

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148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyt <u>e 1</u>	Method	Result	Unit	Date Sampled Date Analyzed
Sample: 99-01	97-05 Clie	nt ID: B1-V	V	02/11/99 WATER
Gasoline	8015M	8200	ug/L	02/22/99
Benzene	8020	1400 '	ug/L	
Ethylbenzene	8020	290	ug/L	
MTBE	8020	320	${\tt ug/L}$	
Toluene	8020	130	\mathtt{ug}/\mathtt{L}	
Xylenes	8020	1300	\mathtt{ug}/L	
Lead	7420	1.1	${ t mg/L}$	02/17/99
Diesel	8015M	*9	mg/L	02/19/99
Sample: 99-01	97-06 Clie	nt ID: B2-1	W	02/11/99 WATER
Gasoline	8015M	340	ug/L	02/22/99
Benzene	8020	34	ug/L	
Ethylbenzene	8020	1.2	ug/L	
MTBE	8020	6000	ug/L	
Toluene	8020	0.7	ug/L	
Xylenes	8020	1.2	ug/L	
Lead	7420	0.51	mg/L	02/17/99
Diesel	8015M	ND		02/19/99

^{*}Pattern does not match diesel **Confirmed by GC/MS
P. O. Box 5624 * South San Francisco. California 94083 * 650-588-2838 FAX 588-1950



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99-0197

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Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte	Method	Result	<u>Unit</u>	D <u>ate Sampled</u>	Date Analyzed
Sample: 99-01		ent ID: B3-	W	02/11/99	WATER
Gasoline	8015M	38000	ug/L		02/24/99
Benzene	8020	2000	ug/L		
Ethylbenzene	8020	1600	ug/L		
MTBE	8020	750	ug/L		
Toluene	8020	3700	ug/L		
Xylenes	8020	6300	\mathtt{ug}/\mathtt{L}		
Lead	7420	1.7	mg/L		02/17/99
Diesel	8015M	*7	mg/L		02/19/99
Sample: 99-01	.97-08 Cli	ent ID: B4-	W	02/11/99	WATER
Gasoline	8015M	33000	ug/L		02/24/99
Benzene	8020	460	ug/L		
Ethylbenzene	8020	1500	ug/L		
MTBE	8020	110	ug/L		
Toluene	8020	2300	ug/L		
Xylenes	8020	8300	ug/L		
Lead	7420	1.4	mg/L		02/17/99
Diesel	80 15M	*9	${\sf mg/L}$		02/19/99

^{*}Pattern does not match diesel **Confirmed by GC/MS
P. O. Box 5624 * South San Francisco, California 94083 * 650-588-2838 FAX 588-1950



Lab Number:

99-0197

Client:

Accutite Envir. Engin.

Project:

148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
Sample: 99-01	97-09 Cli	ent ID: MW-1	L	02/11/99	WATER
Gasoline	8015M	25000	ug/L		02/24/99
Benzene	8020	18000 1	ug/L		
Ethylbenzene	8020	1400	ug/L		
MTBE	8020	**28000	ug/L		
Toluene	8020	1600	ug/L		
Xylenes	8020	500	ug/L		
Diesel	8015M	*2	mg/L		02/19/99
Sample: 99-01	97-10 Cli	ent ID: MW-2	2	02/11/99	WATER
Gasoline	8015M	ND			02/22/99
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	75	\mathtt{ug}/L		
Toluene	8020	ND			
Xylenes	8020	ND			
Diesel	8015M	ND			02/19/99
Sample: 99-01	197-11 Cli	lent ID: MW-	3	02/11/99	WATER
Gasoline	8015M	ND			02/22/99
Benzene	8020	ND			
Ethylbenzene	8020	ND			
MTBE	8020	ND			
Toluene	8020	ND			
*Darram daa	a not match	diesel **Confi	rmed by CC/MS		Page

^{*}Pattern does not match diesel **Confirmed by GC/MS
P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

Mar-31-99 03:23P



ANALYSIS CERTIFICATE OF

Lab Number:

99-0197

Client:

Accutite Envir. Engin.

Project:

148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte	Method	Result	Unit	Date Sampled	Date Analyzed
	-0197-11 Cli	ent ID: MW-3	3	02/11/99	WATER
Xylenes	8020	ND			
Diesel	8015M	ND			02/19/99

6



Quality Control/Quality Assurance

Lab Number:

99-0197

Client:

Accutite Envir. Engin.

Project:

148 / 1435 Webster St.; Alameda, CA

Date Reported: 02/25/99

Gasoline, BTEX and MTBE by Methods 8015M and 8020

Diesel Range Hydrocarbons by Method 8015 M

Lead by Method 7420, AA Spectroscopy

Analyte	Method	Reporting Limit	Unit	Blank	MS/MSD Recovery	RPD
Lead	7420	1.0	mg/Kg	ND	103	0
Lead	7420	0.05	mg/L	ND	80	25
Gasoline	8015M	0.5	mg/Kg	ND	106	1
Benzene	8020	.005	mg/Kg	ND	103	4
Ethylbenzene	8020	.005	mg/Kg	ND	97	4
Foluene	8020	.005	mg/Kg	ND	100	3
Xylenes	8020	.010	mg/Kg	ND	100	3
MTBE	8020	.005	mg/Kg	ND	92	18
Gasoline	8015M	50	\mathtt{ug}/\mathtt{L}	ND	88	3
Benzene	8020	0.5	ug/L	ND	91	6
Ethylbenzene	8020	0.5	\mathtt{ug}/\mathtt{L}	ND	93	6
Toluene	8020	0.5	\mathtt{ug}/\mathtt{L}	ND	94	5
Xylenes	8020	1.0	\mathtt{ug}/\mathtt{L}	ND	91	6
MTBE	8020	0.5	ug/L	ND	101	11
Diesel	8015M	0.05	mg/L	ND	86	1
Diesel	8015M	1.0	mg/Kg	ND	95	1

ELAP Certificate NO:1753

Reviewed and Approved

7 of 7

John A. Murphy, Laboratory Director
P. O. Box 5624 • South San Francisco, California 94083 • 650-588-2838 FAX 588-1950

lient	Accutite Envir	onmental Engin	eering		Report TO SAMI MALAES								Turnaround			
ddress	35 South Lind	en Avenue			Bill To		Accutite		_				ASAP	1 Day	2 Day	3 Day
	South San Fra	ncisco, CA 9408	80		Billing	Referen	ce#	74	8				l Weck	(2 Week)	Others	
hone	650-952-5551							Analys	s Requi	red			pleas	se confici	in the	sample
roject Nar	ne/Address	35 webs			781-C	7PH-							show.	se confice ing the 2 off-6 for 6C/MS,	105KOSTO V MIB	Ententro
ampler C	Pami M	9/026	Date: 2/11/	1999	42,0	10							the	6C/MC	EPA M	012.
Sample ID	Sample	#of Containers	Container Type	Sample Date/Time	11)	0							Remarks			82
MW-1	Water	3	40m/ VOA	2/11/99	X											
MW-1		/	Amban	11		X										
MW-2		3	4011	"	X											
	water	j	Amber	4		×			1							
	Water	2	40 ml	<i>r</i>	×											
	water	/	Amber	11		×										
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Chain of Custody Accutite Environmental Engineering

page two of two

lient	Accutite Envir	onmental Engine	ering			Repor	To c	5 A s	(Z`	T MALAEB					Turnaround				
ddress	35 South Linds	n Avenue				Bill To		Accuti		_						ASAP	l Day	2 Day	3 Day
	South San Fran	icisca, CA 9408	0			Billing	Refere	nce#		148	<u> </u>					l Week	(2 Week)	Others	
hone	650-952-5551									natysis	Requir	d		,		Confier	ne one	Soil au	100-2
roject Nam	e/Address	35 websy 1/amedo	ier Syre. I, CA	et-		200	7	152								water	- some	, show	ng /2
ampler (/	ami M	oloch	Date: 2/11/	1999		1	7014-13	200								highes:	+ 66 TPH	- () 2 2 () 2 () 2 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 () 3 (MIDSK
Sample ID	l Sample	#of Containers	Container Type	T	e Date/Time	127.0	b	400 A CAP								Remarks	GC/MS	, 中 と	MISE 1860
B1-7.5	(50.1	J	Acetolic Tube	2/11/	99 am	X	x	X											
82-75	Soil	- (9	14	/\	X	×	x	1										-
93-6.0		1	72	2	276	×	x	×											
84-75	Mil		7	7	7_		×	×										,	···
BI-W	Water	<u>.</u> 3	40 m/ VO A	11	<u> </u>	X													
81-W	11		Aurter Ter	12	٠,		X						L						
81-W	11		Plastic	2	· ~	<u> </u>		X											
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B3-W		_3	40x-1 V04 Ambor	7	<u></u>	 ×	ļ			ļ	<u> </u>								
B3-W		1	Jen	~	<u> </u>	ļ	_X_												
B3-W	~		Plastic	~/	<u>, ~</u>		_	<u> </u>	-										
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APPENDIX C BORING LOGS



PROJE	CT NO	0			LOCATION 1435 WEBSTER STREET					
CLIEN.				OLYMPIAN			EDA, CAL			
)	<u>B1</u> 2 /11/99	MONITORING					CARATRALADO
DATE			T1	IYDRO-PUNCH					LOGGED BY	SAMI MALAEB ACCUTITE
DRILLI	NG M	ETH	OD	IIDRO-I CNCII	SAMPLING M	ETHOD			DRILLED BY	ACCUITE
DEPTH BELOW SURFACE	INT		SAMPLE	LI	THOLOGY		UNIFIED SOIL CLASSI- FICATION	GRAPHIC LOG		
0 FT 1 2 3 4 5 6 7 8 9 10 12 13 14 15			B1-4'	medium stiff, medi	carbons or staining and gravels (SP), n um dense) noist,	SP SP			

PROJE	CT N	0.			LOCATION	LOCATION 1435 WEBSTER STREET						
CLIEN				OLYMPIAN		ALAME	DA, CAL	IFORNIA				
Ť) <u>. </u>		MONITORING W	/ELL NO.			FI EVATION			
DATE [-	2 /11/99					LOGGED BY	SAMI MALAEB		
DRILLI			¥1	IYDRO-PUNCH	SAMPLING MET				DRILLED BY	ACCUTITE		
DIVILLE	110 11		-									
DEPTH BELOW SURFACE	Ü	SAMPI OLLEC	CTED	LI	THOLOGY		UNIFIED SOIL CLASSI- FICATION	GRAPHIC LOG				
	INT	OVM	SAMPLE									
	_	ppm	ID							<u></u> ,		
—0 FT												
1								· • •				
— 2								.' . '.				
3												
 4			B2-4'	Light brown sand	s and gravels (SP), dry	<i>i</i> ,	SP	l:				
5				medium stiff, med	ium dense carbons or staining)]				
 6				(no oner or nyaru	tar bous of staining)			· •				
 7			B2-7.5'	Light brown sands	and avayala (CD)	at-	SP	ŀ · ·				
 8			D2-1.3	medium stiff, medi	and gravels (SP), moi um dense	31,	101	I.: . :	ľ			
e 9				(no odor of hydroc	arbons or staining)							
1 0												
11								l.: . :.				
12												
13												
			D2 151	w			SP	٠ ٠				
15			B2-15'	Light brown sands medium stiff, medi	and gravels (SP), moi um dense	st,	SP	_	1			
_				(no odor of hydroc	arbons or staining)							
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PROJECT NoL				LOCATION 1435 WEBSTER STREET						
CLIEN-				OLYMPIAN	_	ALAME	DA, CAL	IFORNIA		
)	B3 2 /11/99						SAMI MALAEB
DATE				IYDRO-PUNCH					LOGGED BY	
DRILLI	NG N	IETH	OD		SAMPLING METH	HOD			DRILLED BY —	Accome
DEPTH BELOW SURFACE	С	SAMPI OLLE OVM ppm		LIT	HOLOGY		UNIFIED SOIL CLASSI- FICATION	GRAPHIC LOG		
0 ET		ppm		- "						
— 0 FT — 1 — 2 — 3 — 4 — 5 — 6 — 7 — 8 — 9 — 10 — 12 — 13 — 14 — 15 — — — — — — — — — — — — — — — — — — —			B3-4' B3-6'	medium stiff, mediu (no odor of hydroca Light brown sands a medium stiff, mediu (no odor of hydroca	arbons or staining) and gravels (SP), mois m dense rbons or staining) and gravels (SP), mois m dense	t,	SP SP			
						1435B3				

PROJECT NO.				LOCATION 1435 WEBSTER STREET						
PROJECT NO. OLYMPIAN				ALAMEDA, CALIFORNIA						
PIEZOMETER NO. B4					ELL.NO.		 .	ELEVATION		
DATE DRILLED 2 /11/99			- START	FIN	IISH		LOGGED BY	SAMI MALAEB		
DRILLI	NG N	METH	OD H	IYDRO-PUNCH	_ SAMPLING METH	IOD			DRILLED BY _	ACCUTITE
					· · · · · · · · · · · · · · · · · · ·			1	<u> </u>	
DEPTH		SAMP					UNIFIED SOIL	GRAPHIC LOG		
BELOW SURFACE		OLLE		LIT	THOLOGY		CLASSI- FICATION			
	INT	OVM ppm	SAMPLE ID							
0 FT			·					• • •		
 1										
<u>2</u>								·		
—з								`. ` .'		
_ 4			B4-4'	Light brown sands	and gravels (SP), dry,		SP			
5				medium stiff, medium	um dense arbons or staining)			.` . `.		
 6				(no outer of nyuloca	er vous or staining)					
—7 —8								l:.		
—8 —9			B4-8'	Light brown sands	and gravels (SP), mois	t,	SP	• • •		
— * 10				medium stiff, mediu (no odor of hydroca				.		
					<i>57</i>			`. ` .		
 12			B4-12'	Light brown cands	and gravels (SP), mois		SP	• • •		
<u> </u>			24 12	medium stiff, mediu	ım dense	.,	~-	I.` . `.		
<u> </u>				(no odor of hydroca	rbons or staining)			•		
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APPENDIX D DRILLING AND ENCROACHMENT PERMITS



FROM : Panasonic PPF

DEC 03 1998 14:49 FR ALA CO PUB WK H20 RES

510 TO 916509527631

P.02/02



DEC 03 1998 15:55

ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION

951 TURNER COURT, SUITE 100, HAYWARD, CA \$4645-2651

PHONE (\$10) 670-5575 ANDREAS GODFREY FAX (\$10) 670-5262

(\$10) 670-5248 ALVIN KAN

DRILLING PERMIT	APPLICATION
FOR APPLICANT TO COMPLETE	FOR OFFICE USE
	REPART NUMBER 98WR-520
LOCATION OF PROJECT 1435 Webster-Street	PERMIT NUMBER
ALAMEDA, CA 94501	APN
	PERMIT CONDITIONS
California Confedenates Source ft. CCS ft. Accuracy #	• • • • • • • • • • • • • • • • • • • •
APN	Circled Permit Requirements Apply
CLIENT	(A.) GENERAL
ii ULYMPIAN	1. A permit application should be submitted so as to service at the ACFWA office five days prior to
Address 260 Mil 48//2 (OUVT PROBE (650) 952-5551	proposed starting date.
City SOUTH SAN EPAN CISCOTO YAUND	2. Submit to ACPWA within 50 days after completion of
CA 94080	permitted work the original Department of Water
Name Accutite Environmental	Resources Water Well Drillers Report or equivalent for
50/6 50 \ 052-7671	well projects, or drilling logs and location sketch for
Address 35 South Linden Ate. Phone (550) 252-5551, Ext.	274 9 geotechnical projects.
City Gouth San Francisco ch Tip 946 10	
94080	approval date,
TYPE OF PROJECT	B. WATER SUPPLY WELLS
Well Construction Geotychnical Investigation	1. Minimum surface sent thickness is two inches of
Cathodic Protoguion 0 General 0	sement grout placed by momis.
Water Supply D Contamination	2, Minimum seal depth is 50 feet for municipal and
Menitoring 📜 Well Destruction 🗆	industrial walls or 20 feet for domestic and irrigation
	wells agless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS
PROPOSED WATER SUPPLY WELL USE	INCLUDING PILLOMETERS
New Domestic	1. Minimum surface seal thickness is two menes of
Municipal C Irrigation C	
industrial C Other O	coment grout piscod by trumin. 2. Minimum seal depth for meastering wells is the
	maximum depth procticable at 20 feet
DRILLING METHOD:	D. GEOTECHNICAL
Mud Rolary D Air Roury D Augur D	Backfill bore hele with companied cutdings of heavy
Cable D Other E Geopisia	bensonite and upper two feet with comparted material.
Cable D Other E Beophibe. Direct Bush & DRILLER'S LICENSE NO. <u>C57 License</u> No. 705927	in arms of known or suspected contamination, tramied
DRILLPR'S LICENSE NO. CST License No. 705927	coment grout shall be used in place of compacted cuttings.
WELL PROJECTS ~	F. CATHODIC
Drill Hale Diameter /-5 in. Maximum	Fill hole above ander some with contrast placed by tremic.
Casing Diameter	f. Well destruction
Surface Seal Depth Mile It. Number 44	Sec arreched.
	G. SPECIAL CONDITIONS
GEOTECHNICAL PROJECTS Number of Bornes Meximum	
Number of Barings in. Depth (i.	/ 1 1 /
voic Distitutartit.	/\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
ESTIMATED STARTING DATE DECember 16, 1998	12/11/98
ESTIMATED COMPLETION DATE DECEMBER 16, 199 8	APPROVEDDATE
	•
I hereby agree to comply with all requirements of this permit and	
Alameda Caunty Ordinance No. 73-68.	,
	•
MIGNATURE DAME Hala POATE 12/3/9 8	•
MIGNATURE 12/3/9 B	•
* I be of mile book and the district	Commented and
" 4 direct post porings will be drill	a compact, when
arouted in place in the same	2 Clary . www total Part 02 **
J. J	A 1 -
WORKPIAN for bee borings was approve	ed by EVA Chu A
* 4 direct posts borings will be drille grouted in place in the Come workplan for the borings was approve Alawede County Health Vervices An encroachment permit will	\mathcal{L}
ALL RICENIAN ME ON A POWER LE SENT	be obtained from the Cityll Alean
THE COLOROGENERAL FULL MALL CALL	

ENCROACHMENT PERMIT APPLICATION

City of Alameda

Building Inspections / Central Permits Office

2263 Santa Clara Avenue, Room 190 = Alameda, CA 94501 Phone: (510) 748-4530 - Fax: (510) 748-4548

FARRAR GE	OFFREY A	& HARN	2150~ 6E0	
Property Owner Nam		5201 8	92-1277	
	1701	Phone	15-12/1	
Address	αA	FIIONE	95927	
CHICO	State		Zio	
City	State		Σih	
hereby affirm the	at I am licensed	under provis	ions of Chapter 9	
commencing with §	Section 7000 of D	Division 3 of	the Business and	
Professions Code, an	d my license is in ful	II force and e	ffect.	
LICENSE No. 6432	381 705927 (CITY BUSINES	SS	
AND CLASS AFB		LICENSE No.		
Contractor Name	1			
Accutite	(650) 952-50	551, Ex	.f. 209 Address	
35 COUTE LOS	State (alas)	South	CA 94080	D
hereby affirm that I am axe 7031.5 Business and Profes alter, Improve, demolish, or re such permit to file a signe Contractor's License Law Business and Professions exemption. Any violation of to a civil penalty of not mor I, as owner of the property	sions Code: Any city or o spale any structure, prior to ad statement that he is it (Chapter 9 - commencing Code) or that he is exem if Section 7031.5 by any a te than five hundred dollars	county which required its issuance also discussed pursuant grant with Section 7 opt therefrom and applicant for a pera (#500).	sires a permit to construct, o requires the applicant for to the provisions of the 000) of Division 3 of the the basis for the alleged rmit subjects the applicant	-
□ I, as owner or the property work and the structure is n Code: The Contractor's t improves thereon, and who such improvements are not is sold within one year of o did not build or improve for	ot intended or offered for License Law does not app does such work himself or intended or offered for sal impletion, the owner-build	sale (Sec. 7044, ply to an owner or through his own le. If however, th	Business and Professions of property who builds or employees, provided that the building or improvement	:
I, as owner of the proper the project (Sec. 7044, Bus apply to an owner of property with a contractor(s) (consecution).	siness and Professions Coo who builds or improves th	de: The Contract sereon, and who o	or's License Law does not contracts for such projects	

H.	BUILDING
	BUILDING SERVICES
	CITY OF ALAMEDA

PERMIT NO.

100 ADDD500	1435 Webster Street, Alameda, CA 94
	Public Parking Lat
_	Public Parking Lot
71101 0025 00	DESCRIPTION OF WORK
The Joh	consiste of advancine 12-inch
borings	to a depth of 15 feet. one
boring A	will be located on a parking
ceace o	n fre side of webston
Otreet	and the reemains three
borings	will be advanted on the
porkin	s lot at 1435 Webster Street
(see att	sched bisore). soil and ground
Samples w	vill be collected from the boxings.
Valuation of Wor	be grouted in place in the saute of
water supply, plu	r, materials, and all lighting, heating, ventilating, umbing, fire sprinklers, electric wiring, elevator equip- ures that are affixed or a permanent part of the
Contact Name	Sawi Malach
Contact Phone_/	650 952-5551, Ext. 209
	OTHER PERMITS ARE REQUIRED FOR
Р	LUMBING, HEATING, ELECTRICAL WORK,
Business Lic.\$	
Permit Fees \$	
	2.00
Filing Fee \$ 3	2.00
Plan Check \$	
Design Review \$	-
Addt. Micro Fich	8 \$
Misc. Fee \$	
101AL \$	
APPLICATION R	ECEIVED:
DATE	SIGNED
APPROVAL:	
	SIGNED
ISSUED:	
	SIGNED

SIGNATURE OF:

I am exempt under Sec. B&P.C. for this reason _ Owner's Signature

permit is issued.

Applicant_

ATTORNEY'S FEES.

DOLLARS(\$100) OR LESS).

X Contractor □ Owner □ Agent

hereby affirm under penalty of perjury one of the following declarations:

3700 of the Labor Code, shall forthwith comply with those provisions. Men

compensation insurance carrier and policy number are:

I have end will maintain a certificate of consent to self-insure for workers' compensation, as provided for by Section 3700 of the Labor Code, for the performance of the work for which this

ITHIS SECTION NEED NOT BE COMPLETED IF THE PERMIT IS FOR ONE HUNDRED

WARNING: FAILURE TO SECURE WORKERS' COMPENSATION COVERAGE IS UNLAWFUL, AND SHALL SUBJECT AN EMPLOYER TO CRIMINAL PENALTIES AND CIVIL FINES UP TO ONE HUNDRED THOUSAND DOLLARS (\$100,000), IN ADDITION TO THE COST OF COMPENSATION, DAMAGES AS PROVIDED FOR IN SECTION 3708 OF THE LABOR CODE, INTEREST, AND

I have and will maintain workers' compensation insurance, as required by Section 3700 of the Labor Code, for the performance of the work for which this permit is issued. My workers'

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the workers' compensation laws of California, and agree that if i should become subject to workers' compensation provisions of Section

Holast

Policy Number

Date<u>0/_/</u>26/<u>__</u>24

Date

City of Alameda

Building Inspections / Central Permits Office

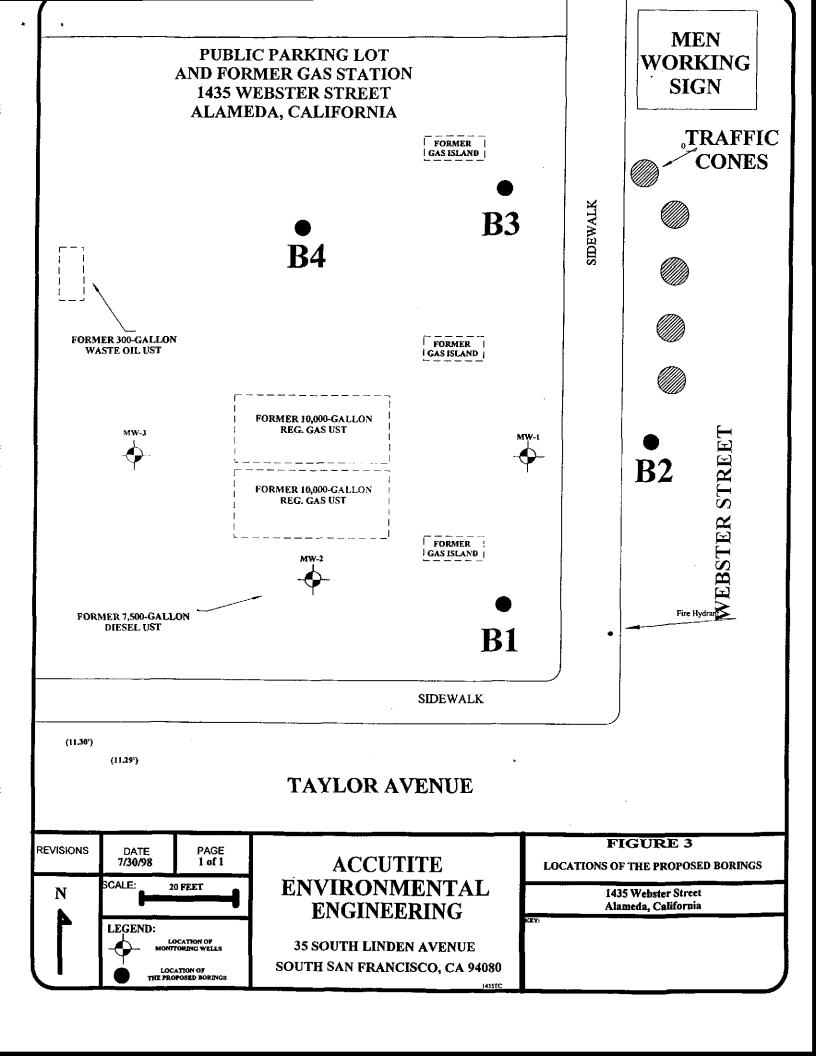
2263 Santa Clara Avenue, Room 190 = Alameda, CA 94501

Phone: (510) 748-4530 = Fax: (510) 748-4548



Indemnity and Hold Harmless Agreement

Accotite Environmen	tel Engineering	whose address is
35 Couth Linden AVEV desires to install and maintain aSO	1Ue, south Bu Francis	(hereinafter "Indemnitor")
desires to install and maintain aSO,	il boring 94	4660 that will encroach
on City property (See Encroachment Perr	mit No). In consideration of being
allowed to install and maintain this	boring	, Indemnitor
agrees to the following terms and conditi		•
Indemnitor shall indemnify and ho	old harmless City, its City	Council, Boards and Commissions,
officers and employees from and agains	st any and all loss, damage	s, liability, claims, suits, costs and
expenses whatsoever, including reasonable	e attorneys' fees, regardless	of the merit of outcome of any such
claim or suit arising from or in any manne	er connected to the installat	ion, maintenance or removal of the
Borins		
Indemnitor shall indemnify and ho		ouncil, Boards and Commissions,
officers and employees from and against	any and all loss, damages,	liability, claims, suits, costs and
expenses whatsoever, including reasonat		
persons, firms or corporations furnishing		
arising from or in any manner connected		
Boring		
Indemnitor agrees to remove the		at his/her
expense in the event that the $___b$	-	
interferes with any City project.		
By the signature below, Indemnito	r agrees that it has read this	s Indemnity and Hold Harmless
Agreement and accepts and agrees to ea		
Agreement and accepts and agrees to sa	INDEMNITOR	. 1
Dated: 12/11/98	By	4 Nalas
<i>'</i> .		G:\CENPERM.BI\FORMS\ENCROACH.APP
Revised: 07/20/98	YO ACC	11 A'to



STATE OF CALIFORNIA DEPARTMEN ENCROACHMENT PERI TR-0120 (NEW 9/91)		Permit No. 0498-6SV 3095			
		Dist/Co/Rte/PM			
In compliance with (check on	e):	04-ALA-260 0.08			
X Your application of 1	December 11,1998				
Utility Notice No			January 6, 1999		
Agreement No	of	\$ 210.00			
R/W Contract No	of	Performance Be	ond Amount (1)	Payment Bond Amount (2) \$	
		Bond Company	•		
		Bond Number	(1)	Bond Number (2)	
Accutite Environmen 35 South Linden Av South San Francisco ATTN: Sami Malael	enue , CA 94583	, permitte	==		
PHONE: (650) 952-5			: E		
and subject to the following,	PERMISSION IS HEREBY	GRANTED to:			
Drill one-50mm (2") diamete Highway 04-ALA-260, Post l					
Two days before work is st details, operations, public sa Freitag, 600 Lewelling Blvd.,	fety, and traffic control	shall be obtained fro	m State Rep	presentative N.	
Immediately following comp the Notice of completion a		nitted herein, the pe	rmittee shal	I fill out and mail	
All personnel shall wear ha	rd hats and orange vests	s, shirts, or jackets a	ıs appropriat	e during construction.	
Certain details of work auth submitted with request for p		on permittee's plan	(job at 143	5 Webster St.)	
The following attachments are also inclu (Check applicable):	ded as part of this permit.		In addition to t	fee the permittee will be billed sts for:	
Yes No Utility Mai	Yes No Utility Maintenance Provisions Yes No Special Provisions			X No Review X No Inspection Field Work	
# (If any Caltrans effort expended)				altrans effort expended)	
Yes No The information in the environmental documentation has been reviewed and considered prior to approval of this permit.					
This permit is void unless the work is cor		9			
This permit is to be strictly construed and No project work shall be commenced u				4	
To project work and the communication		PPROVED:	THE DESIT OUIQUIC	<u>. </u>	
		larry Y. Yahata, Distri	ct Director		
	B	v. Sji	W Law	Zari.	
		3. J. Battaglini, Distri	ct Permit Eng	ineer	

NAME: Accutite Environmental Engineering

PERMIT #: 0498-6SV 3095 DATE: January 6, 1999

The site of the work shall be enclosed by suitable barricades, signs and lights, as approved by State's representative, to warn and protect traffic effectively.

Before any work is begun which will interrupt the normal flow of public traffic, approval shall be obtained from State's representative, and closures will be as shown on the attached copy of Standard Plan Sheet T-10.

The attached freeway traffic control plan is for shoulder closure detail only.

Field surveys shall be conducted off the traveled way except where necessary to cross pavements and medians.

Any painted markings shall be made with water soluble paint.

Permission is also granted to park survey vehicles temporarily within the right of way, outside the shoulders, while survey work is in progress.

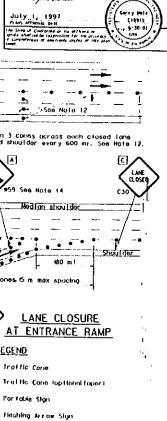
Any damage to existing facilities, landscaping, or irrigation within the State's Right of Way shall be replaced in kind by the permittee at permittee's expense.

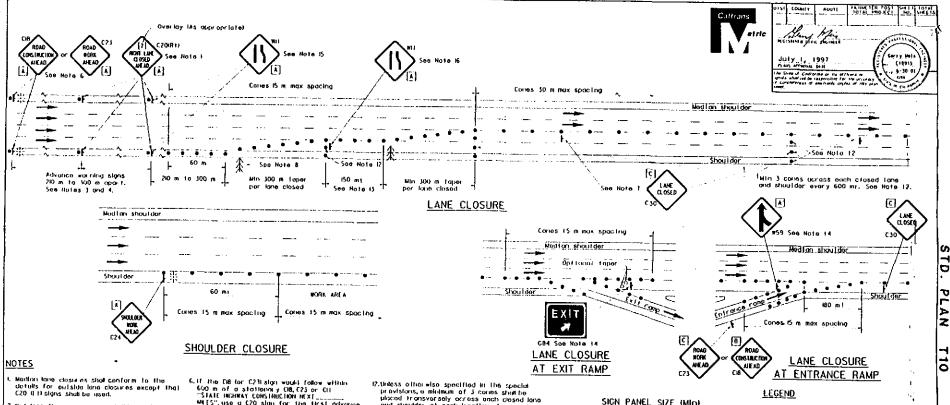
No excavation shall be left open overnight without written permission from Caltrans representative or unless otherwise specified herein.

STATE OF CALIFORNIA, DEPARTMENT OF TRANSPORTATION ENCROACHMENT PERMIT GENERAL PROVISIONS TR-0045 (REV. 8/98)

- AUTHORITY: The Department's authority to issue encroachment permits is provided under, Div. 1, Chpt. 3, Art. 1, Sect. 660 to 734 of the Streets and Highways Code.
- 2. REVOCATION: Encroachment permits are revocable on five days notice unless otherwise stated on the permit and except as provided by law for public corporations, franchise holders, and utilities. These General Provisions and the Encroachment Permit Utility Provisions are subject to modification or abrogation at any time. Permittees' joint use agreements, franchise rights, reserved rights or any other agreements for operating purposes in State highway right of way are exceptions to this revocation.
- DENIAL FOR NONPAYMENT OF FEES: Failure to pay permit fees when due can result in rejection of future applications and denial of permits.
- ASSIGNMENT: No party other than the permittee or permittee's authorized agent is allowed to work under this permit.
- ACCEPTANCE OF PROVISIONS: Permittee understands and agrees to accept these General Provisions and all attachments to this permit, for any work to be performed under this permit.
- 6. BEGINNING OF WORK: When traffic is not impacted (see Number 35), the permittee shall notify the Department's representative, two (2) days before the intent to start permitted work. Permittee shall notify the Department's Representative if the work is to be interrupted for a period of five (5) days or more, unless otherwise agreed upon. All work shall be performed on weekdays during regular work hours, excluding holidays, unless otherwise specified in this permit.
- 7. STANDARDS OF CONSTRUCTION: All work performed within highway right of way shall conform to recognized construction standards and current Department Standard Specifications, Department Standard Plans High and Low Risk Facility Specifications, and Utility Special Provisions. Where reference is made to "Contractor and Engineer." these are amended to be read as "Permittee and Department representative."
- PLAN CHANGES: Changes to plans, specifications, and permit
 provisions are not allowed without prior approval from the State
 representative.
- 9. INSPECTION AND APPROVAL: All work is subject to monitoring and inspection. Upon completion of work, permittee shall request a final inspection for acceptance and approval by the Department. The local agency permittee shall not give final construction approval to its contractor until final acceptance and approval by the Department is obtained.
- 10. PERMIT AT WORKSITE: Permittee shall keep the permit package or a copy thereof, at the work site and show it upon request to any Department representative or law enforcement officer. If the permit package is not kept and made available at the work site, the work shall be suspended.
- 11. CONFLICTING ENCROACHMENTS: Permittee shall yield start of work to ongoing, prior authorized, work adjacent to or within the limits of the project site. When existing encroachments conflict with new work, the permittee shall bear all cost for rearrangements, (e.g., relocation, alteration, removal, etc.).
- 12. PERMITS FROM OTHER AGENCIES: This permit is invalidated if the permittee has not obtained all permits necessary and required by law, from the Public Utilities Commission of the State of California (PUC), California Occupational Safety and Health Administration (Cal-OSHA), or any other public agency having jurisdiction.
- 13. PEDESTRIAN AND BICYCLIST SAFETY: A safe minimum passageway of 1 21 meter (4') shall be maintained through the work area at existing pedestrian or bicycle facilities. At no time shall pedestrians be diverted onto a portion of the street used for vehicular traffic. At locations where safe alternate passageways cannot be provided, appropriate signs and barricades shall be installed at the limits of construction and in advance of the limits of construction at the nearest crosswalk or intersection to detour pedestrians to facilities across the street.
- 14. PUBLIC TRAFFIC CONTROL: As required by law, the permittee shall provide traffic control protection warning signs, lights, safety devices, etc., and take all other measures necessary for traveling public's safety. Day and night time lane closures shall comply with the Manuals of Traffic Controls, Standard Plans, and Standard

- Specifications for traffic control systems. These General Provisions are not intended to impose upon the permittee, by third parties, any duty or standard of care, greater than or different from, as required by law.
- 15. MINIMUM INTERFERENCE WITH TRAFFIC: Permittee shall plan and conduct work so as to create the least possible inconvenience to the traveling public; traffic shall not be unreasonably delayed. On conventional highways, permittee shall place properly attired flagger(s) to stop or warn the traveling public in compliance with the Manual of Traffic Controls and Instructions to Flaggers Pamphlet.
- 16. STORAGE OF EQUIPMENT AND MATERIALS: Equipment and material storage in State right of way shall comply with Standard Specifications, Standard Plans, and Special Provisions. Whenever the permittee places an obstacle within 3.63 m (12') feet of the traveled way, the permittee shall place temporary railing (Type K).
- 17. CARE OF DRAINAGE: Permittee shall provide alternate drainage for any work interfering with an existing drainage facility in compliance with the Standard Specifications, Standard Plans and/or as directed by the Department's representative.
- RESTORATION AND REPAIRS IN RIGHT OF WAY: Permittee
 is responsible for restoration and repair of State highway right of
 way resulting from permitted work (State Streets and Highways
 Code, Sections 670 et. seq.).
- 19. RIGHT OF WAY CLEAN UP: Upon completion of work, permittee shall remove and dispose of all scraps, brush, timber, materials, etc. off the right of way. The aesthetics of the highway shall be as it was before work started.
- 20. COST OF WORK: Unless stated in the permit, or a separate written agreement, the permittee shall bear all costs incurred for work within the State right of way and waives all claims for indemnification or contribution from the State.
- ACTUAL COST BILLING: When specified in the permit, the Department will oill the permittee actual costs at the currently set hourly rate for encroachment permits.
- 22 AS-BUILT PLANS: When required, permittee shall submit one (1) set of as-built plans in compliance with Department's requirements. Plans shall be submitted within thirty (30) days after completion and approval of work.
 - As-Built plans or accompanying correspondence shall not include disclaimer statements of any kind. Such statements shall constitute non-compliance with these provisions. Failure to provide complete and signed As-Built plans shall be cause for bond or deposit retention by the Department.
- 23. PERMITS FOR RECORD PURPOSES ONLY: When work in the right of way is within an area under a Joint Use Agreement (JUA) or a Consent to Common Use Agreement (CCUA), a fee exempt permit is issued to the permittee for the purpose of providing a notice and record of work. The Permittee's prior rights shall be preserved without the intention of creating new or different rights or obligations. "Notice and Record Purposes Only" shall be stamped across the face of the permit.
- BONDING: The permittee shall file bond(s), in advance, in the amount set by the Department. Failure to maintain bond(s) in full force and effect will result in the Department stopping of all work and revoking permit(s). Bonds are not required of public corporations or privately owned utilities, unless permittee failed to comply with the provision and conditions under a prior permit. The surety company is responsible for any latent defects as provided in California Code of Civil Procedures. Section 337.15. Local agency permittee shall comply with requirements established as follows: In recognition that project construction work done on State property will not be directly funded and paid by State, for the purpose of protecting stop notice claimants and the interests of State relative to successful project completion, the local agency permittee agrees to require the construction contractor furnish both a payment and performance bond in the local agency's name with both bonds complying with the requirements set forth in Section 3-1.02 of State's current Standard Specifications before performing any project construction work. The local agency permittee shall defend. indemnify, and hold harmless the State, its officers, and employees from all project construction related claims by contractors and all stop notice or mechanic's lien claimants. The local agency also agrees to remedy, in a timely manner and to State's satisfaction, any latent defects occurring as a result of the project construction work.
- FUTURE MOVING OF INSTALLATIONS: Permittee understands and agrees to rearrange a permitted installation upon request by the Department, for State construction, reconstruction, or maintenance





- 7. Not loss from our person shokbu assigned to fish their mulnimentate of fraffic countral devices on all right ione closures or day time. closures excending L6 km in length, including
- 5. Displicator store installations are not required: of the available lanes comple open to traffic.
- bilin the medica if the width of the mediun shoulder is less than 2.4 m and the autistice kines are to be closed.
- t. All advance warning sign installations shall be additional with flags for daytine closures. Flashing boucons shall be obtained at the locations indicated during night tone closure.
- A CIJ "END CONSTRUCTION" or CIA. "END ROAD WOLK" sign, as appropriate, shall be placed at the end of the lane closure unless the end of work area is obvious or ends within a larger project's limits.

- MIES", use a £20 sign for the first advance Fortillog slop.
- J. Place a C10 sign evally 600 m throughout length of lone closure.
- 8. One flashing arrow sign for each lane closed. Itie first flushing arrow sign sholl be Type I. All others may be either Type I or Type II,
- 9. A minimum 450 m of sight distance statibe provided where possible for vehicles opproaching the first fashing array sign. Lare closures shall not begin at top of crest vertical curve or on a horizontal curve.
- KIAN comes used for night tome closures slick be fillian with reflective shaves as specified in the specifications.
- It for table definactors, placed at one half the spacing indicated for traffic coies may be Used in Hau of cores for dayline clusines
- and shoulder at each location where a tanun across a traffic ione ends and every 600 m as stewer on the "tana Closure" detail. Two Type II barricades may be used instead of the 3 cories. The transverse allgament of the comes or barricades on the closed shoulder may be shifted from the transverse dignitional to provide access to the work,
- ill. tintess otherwise specified in the special provisions, the 150 m section of the knie closure shown along families shall be used between the 100 m land closure topens when iwa or more adjacant traific kings are to be closed.
- Mulriless afterwise specified in the special provisions, the GB4 and W59 signs shoft be
- 15. Moore specified in the special provisions, a NII "LANE REGUCTION SYMBOL" sign is to be used to place of the C20 "RIGHT EANE CLOSED AVEAD"
- K. The WIT "LAKE REDICTION SYMBOL" sign shown at this location is to be used where the Mit sign is used as advance warning as described in Note 15.

SICN PANEL SIZE (MID)

- [A] 1200 min × 1200 min
- 900 mm x 900 mm 750 mm x 750 mm
- - Direction of Travel
 - Pertuble Hashing Reacon

STATE OF CAUTORINA HOLLA THOUSENAME TO THE MALERA SKI

TRAFFIC CONTROL SYSTEM FOR LANE CLOSURE ON FREEWAYS AND EXPRESSWAYS

NO SCALE

T10