Alameda County Health Agency July 7, 1992 Page 3

contained in Appendix B.

Sample	Sample	SUMMA	ARY OF S	3, 100 : 647X 109 : 468X	1 ALYTIC oncentration	3.500,0230,000	ULTS (119 +61	/22/9Z
1D	Depih	TPH-G	TPH-D	ТРН-МО	В	τ	*	E	TOG
3	Soil Samples				······································				
IB-1	5.0 ft	ND ¹	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
IB-2	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ŅD	ND	ND	ND	ND
IB-3	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
IB-4	5.0 ft	ND.	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND ,	ND	ND	ND	ND	ND
	15:0 ft	2.5	2		ND	0.016	0.10	0.030	
IB-5	5.0 ft	ND	ND	ND	ND	ND	ND	ND	ND
	10.5 ft	ND	ND	ND	ND	ND	ND	ND	ND
Detection	n Limit	0.50	10	10	0.0050	0.0050	0.0050	0.0050	50

¹ - Not detected.

Results of the Investigation

Based on the laboratory results and on field observations, we conclude the following:

1. Results from the shallow borings (IB-1, IB-2, IB-3, and IB-5) indicate that soils beneath the Scott Company facility at 1919 Market Street have not been impacted petroleum hydrocarbons. Thus, the former use of the site as a Greyhound bus maintenance facility (as reported by several longtime Scott employees) does not appear to have impacted shallow soils at the site.

² - Not analyzed.

Table 2
SUMMARY OF SOIL ANALYTICAL RESULTS
1919 Market Street Remedial Investigation

Sample	Sample				Concentrati	on (ppm)			edun Den inger Til
ID	Depth	TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Elhylbenzenc	7777
MW-1	5.0 ft	40	140	ND(10) ²	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	35 ³
	10.5 ft	430	1100	61	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	33° g
······································	13.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	8
MW-2	5.5 ft	120 ¹	180	ND(10)	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	22
	10.5 ft	3101	1200	ND(50)	ND(0.5)	ND(0.5)	ND(0.5)	ND(0.5)	210
	15.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	5
MW-3	5.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3
	10.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	3
	15.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	1
MW-4	8.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	
	12.5 ft	ND(0.5)	ND(10)	ND(10) ::	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
MW-5	8.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	14.5 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	_
Detection	Limit	0.50	10	10	0.0050	0.0050	0.0050	0.0050	0

¹ - The WEST laboratory report states that "the product is not typical gasoline."

² - Not detected above the levels indicated in the parentheses.

³ - The photoionization detector (PID) was calibrated using a 100-ppm isobutylene standard. PID values are qualitative only and should be used only for comparison.

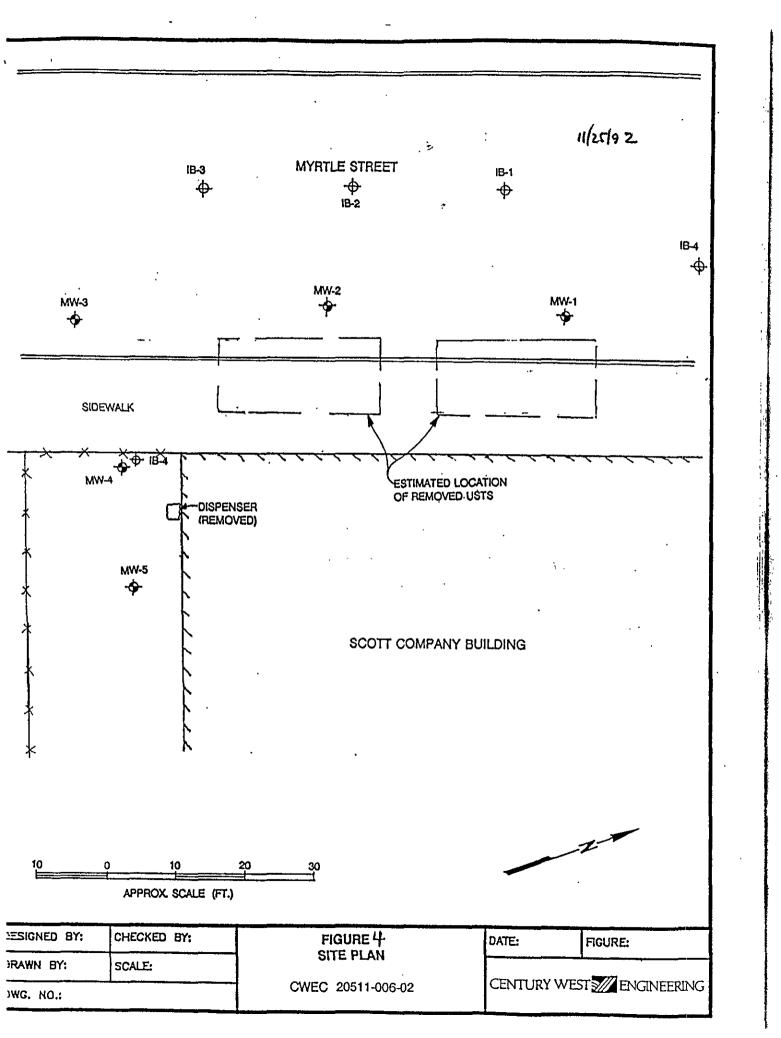


Table 3 SUMMARY OF SOIL ANALYTICAL RESULTS Soil Boring Investigation - 11/25/92 1919 Market Street UST Site

Sample	Sample				Concentration	m (ppm)			
ID.	Depth	TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Ethylbenzene	PID
IB-1	6:0 ft	2.8 ¹	$ND(10)^2$	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0 ³
	6.0 ft ⁴		14	ND(10)					12
	11.0 ft	87 ¹	300	ND(20) ⁵	ND(0.005)	ND(0.005)	0.030	ND(0.005)	
IB-2	6.0 ft	ND(0.50)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.0 ft	23 ¹	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	28
 	11.0 ft ⁴		12	ND(10)					
IB-3	6.0 ft	ND(0.5)	ND(10)	13	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	5
IB-4	6.0 ft	ND(0.5)	ND(10)	ND(10)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	0
	11.5 ft	13 ¹	170	27	ND(0.05)	ND(0.05)	ND(0.05)	ND(0.05)	16

¹ - The WEST laboratory report states: "Product is not typical gasoline."

² - Not detected above the levels indicated in the parentheses.

³ - The photoionization detector (PID) was calibrated using a 100-ppm isobutylene standard. PID values are qualitative only and should be used only for comparison.

⁴ - Duplicate analysis for TPH-diesel/motor oil.

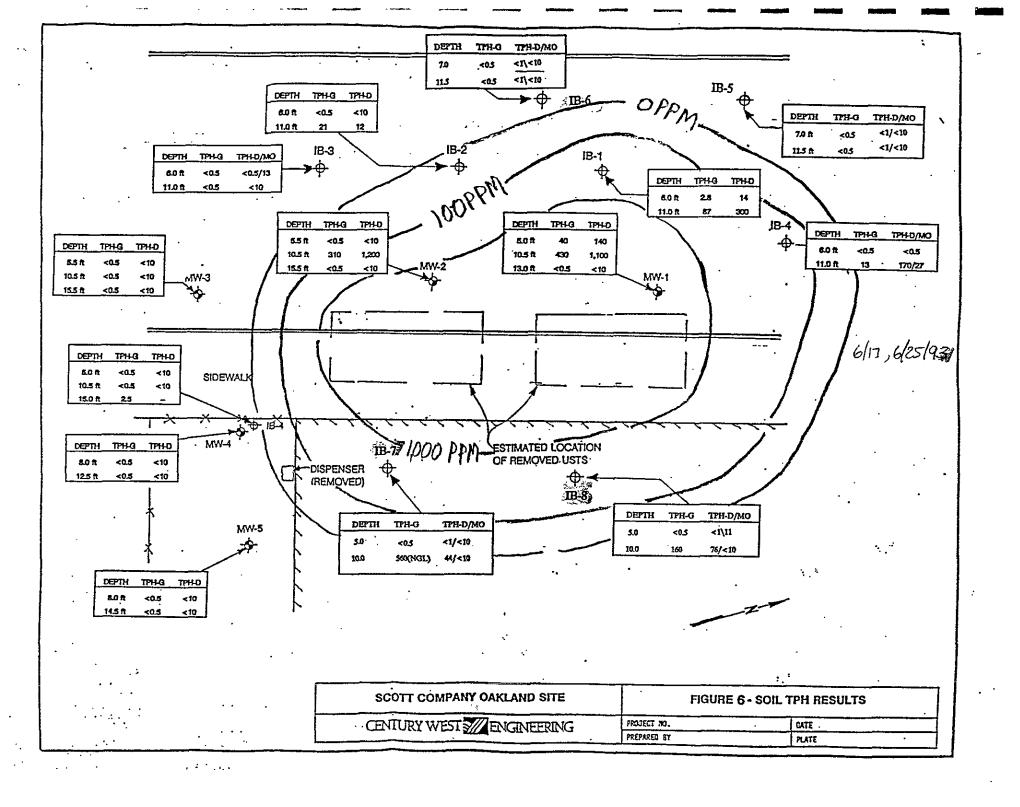
⁵ - WEST laboratory report states: "Increased reporting limit due to diesel interference."

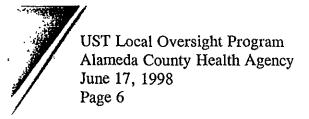
Table 4 SUMMARY OF SOIL ANALYTICAL RESULTS Soil Boring Investigation - 11/25/92 1919 Market Street UST Site

Sample	Sample			Ci	oncentration (p	om)		
1D	Depth	TPH-gas	TPH-diesel	TPH-motor oil	Benzene	Toluene	Xylenes	Ethylbenzene
IB-5	7.0 ft	$ND(1)^1$	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	11.5 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-6	7.0 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	11.5 ft	ND(1)	ND(1)	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-7	5.0 ft	ND(1)	ND(1)	· ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	10.0 ft	560 ²	44	ND(10)	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
IB-8	5.0 ft	ND(1)	ND(1)	11	ND(.0025)	ND(.0025)	ND(.0025)	ND(.0025)
	10.0 ft	160	76	ND(10)	ND(.0025)	ND(.0025)	1,100	ND(.0025)

¹ - Not detected above the levels indicated in the parentheses.

² - NET Pacific laboratory report indicates, "not gas like".





Hydrocarbon Impacts to Groundwater

Current and previous groundwater laboratory analytical results are summarized in Table 2. These results clearly indicate only minor gasoline impact to groundwater in MW-4, with no significant impacts in downgradient wells MW-1, MW-2, and MW-3. Furthermore, concentrations of gasoline constituents in MW-4 in May 1998 were lower than during previous monitorings, indicating that the addition of ORC in MW-4 and MW-5 in 1996 and 1997 was effective in promoting biodegradation of residual gasoline constituents.

				Table	5				
		SUMMAR		OUNDWATI			RESULTS		
2.534866			19	19 Market Str					
Sample ID	Sainple 4. Daie 10.	GI Blavellori		TPH-D	the way to a first	oncentration (f			
MW-1	08/07/92	4.06	<0.050 ²	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.000 <i>5</i>
<16.34>	12/03/92	3.89	<0.050	<0.050	<0.050	<0.0005		0.0025	<0.0005
10,542	06/15/93	5.06	<0.050	<0.050	<0.5	<0.0005	<0.0005		,
				•	<0.5			<0.0005	<0.0005
	01/28/94	5.05	<0.050	<0.050		<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.84	<0.050		<0.5	<0.0005	<0.0005	<0.0005	. <0.0005
	06/12/97	4.93	***				era *		,
	10/22/97	4.52		**	, 	•		**	
	05/07/98	5.96							
MW-2	08/07/92	4.11	<0.050	<0.050	<0.050	< 0.0005	< 0.0005	<0.0005	< 0.0005
<16.78>	12/03/92	3.90	< 0.050	<0.050	<0.050	< 0.0005	0.014	0.0025	0.00194
	06/15/93	5.08	< 0.050	<0.050	<0.5	<0.0005	< 0.0005	<0.0005	<0.0005
	01/13/94	5	< 0.050	A0.14%	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
,	01/10/95	7.69	<0.050	(0.0619	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	5.20	<0.050	< 0.050		< 0.0005	<0.0005	<0.0005	< 0.0005
	10/22/97	4.53	<0.050	<0.050		<0.0005	<0.0005	< 0.0005	<0.0005
	05/07/98	6.47				**	•-		
MW-3	08/07/92	4.11	<0.050	<0.050	<0.050	< 0.0005	<0.0005	<0.0005	<0.0005
<17.04>	12/03/92	3.93	<0.050	<0.050	<0.050	< 0.0005	0.016	10:0035	0.0024
	06/15/93	5.09	<0.050	<0.050	<0.5	<0.0005	<0.0005	< 0.0005	<0.0005
	01/28/94	5.01	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/10/95	7.66	< 0.050	<0.050	< 0.5	<0.0005	<0.0005	<0.0005	< 0.0005
	06/12/97	4.96			**				
	10/22/97	4.53			••				
	05/07/98	7.11							

GRIBI Associates

UST Local Oversight Program Alameda County Health Agency June 17, 1998 Page 7

		SUMMA	RY OF GRO 1919	Tabl UNDWAT Market St	ER ANA	LYTICAL I	RESULTS		
Semials (11)	Semple Date	CNY Oltsvettiðil	a properties a	TIPRED.		oncentration (ipin) Primary		<u> 13 a</u>
MW-4	08/07/92	4.14	0.8	<0.050	<0.050	0.020	0.150	-0/940	0.0075
<18.20>	12/03/92	3.96	0.22	<0.050	< 0.050	0.013	0.036	0.031	0.0082
	06/11/93	(4.96)	7						
ļ	01/13/94	(4.96)	y ## khanilahan Washida asa	• wee					
	01/10/95	7.69		0.759	<0.5	0:025	0.052	0.230	10,043
	06/12/97	(4.97)10	6364	0:39!!		0.0052	0.0052	0.180	0:030
	10/22/97	4.57		<0.3012		0.017		0.800	5.0000
	05/07/98	6.51		<0.30		10:0088	<0.0005	0.022	0.0099
MW-5	08/07/92	4.17	<0.050	<0.050	<0.050	<0.0005	<0.0005	<0.0005	<0.0005
<18.93>	12/03/92	3.95		<0.050	<0.050	<0.0005	0.00	0.0002	0.0035
	06/11/93	5.14		0.00	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	01/28/94	5.04	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	· 01/10/95	7.69	<0.050	<0.050	<0.5	<0.0005	<0.0005	<0.0005	<0.0005
	06/12/97	$(4.95)^{10}$							
	10/22/97	4.58				••	••		
	05/07/98	6.57							

- Groundwater table mean sea level elevation, as measured from top of casing (top of casing surveyed mean sea level 1 elevations for each well are shown in brackets below each well number).
- 2 -Not detected above the expressed value.
- Low levels of toluene, xylenes, and ethylbenzene in 12/03/92 samples are due to sampling equipment contamination. 3 -
- Laboratory report states: "The positive result appears to be a heavier hydrocarbon than Diesel."
- Access to monitoring well temporarily blocked by unoccupied vehicle.
- Laboratory report states; "The positive result has an atypical pattern for Diesel analysis."
- Well not sampled due to presence of approximately 1/2-inch of free product was observed in well.
- Well not sampled due to presence of approximately 1/4-inch of free product was observed in well.
- Laboratory report states: "The positive result appears to be a lighter hydrocarbon than Diesel."
- 10 -ORC removed from well one week previously may affect water levels.
- 11 -Laboratory report states: "Not typical diesel."
- Laboratory report states: "Increased reporting limit due to gasoline range interference." 12 -
- Laboratory report states; "The positive result for the PETROLEUM HYDROCARBONS as Diesel analysis on this sample 13 does not appear to have typical Diesel pattern."

In addition, recent laboratory analytical results for wells MW-2 and MW-4 have shown no detectable levels of MTBE.

SOIL	BOF	RING LC	G MW	-1				entury	West Engineering		
Site Loca	ation:	1919 Marke	t St., Oakla	nd, Ca.		Borin	g ID: MW-1				
Boring L	ocatio	n: Myrtle St	. downgrad	lent from E	UST.				Total Depth: 22 ft Initial GW Depth: 13 ft		
		ınd water m				Leaved D. H. C.D.			SW Depth: 13 ft		
Date: Ju	ly 30,	1992	·				Casing: 4-inch Sch 40				
Consultir	ig Fir	m: Century	West Eng	ineering			rations: 0.020 Inch		0 (TOC) To: 7.25 ft		
Project N	lumbe	r: 20511-00	06-02				Sand: Lonestar		7.25 ft To: 21.68 ft		
Drilling Contractor: Kvilhaug Well Drilling							nite: Hydrated pellets		22 ft To: 6 ft		
Drilling Method: Hollow stem auger							: Cement slurry (bent. <5%)		6 ft To: 5 ft		
Depth		Sample	Blow	Profile				From:			
	_	ID.	Counts	FIOIIIE		SOII DE	escription	·	Remarks		
01		1			0.0 - 1.	.0 ft	Asphalt and base rock.		PID Reading		
<u>02</u>					1.0 - 3.	0 ft	Grey clayey SILT, hard, moist hydrocarbon odor or stain.	, no			
<u>0</u> 3											
<u>04</u>											
05											
.0 6		MW-1.1	7 9 13		3.0 - 8.	0 ft	Grey green clayey SILT, sand	у,	35		
<u>0</u> 7			13				Grey green clayey SILT, sand hard, slightly friable, moist, moderate hydrocarbon odor.				
<u>08</u>					8.0 - 11.	∩ ft			•		
0 9					0.0 - 11	.o it	Greenish grey silty CLAY, firn hard, moist, faint to moderate hydrocarbon odor.	n,			
10							my and death of the control of the c				
.			10		11.0 - 12	.5 ft	Grev green silty SAND fine to		1 1		
11 12		MW-1.2	10 18 29				Grey green silty SAND, fine to medium, slightly clayey, mois wet, faint hydrocarbon odor.	t to	120		
13		184440	10								
14		MW-1.3	10 28 38	▽				-	8		
15			:						0		
								ļ			
16					12.5 - 22	.0 ft	Reddish brown SAND, mediun	n to			
17							saturated, no hydrocarbon odd	r or or			
18							stain,				
19											
20											
21								ſ			
22											
23					Final Aug Ground	ger Dept Water D	th - 22 feet epth - 13 feet				
<u>24</u>					_		,				
<u>25</u>				-							

Site Location: 1919 Market St., Oakland, Ca. Bering Location: Myrtle St. downgradient from W UST. Bering Location: Myrtle St. downgradient from W UST. Purposes: Ground water monitoring Logged By: Jim Gribl Final GW Depth: Date: July 30, 1992 Blank Casing: 4-Inch Sch 40 From: 0 (TOC) To: 6,98 ft Consulting Firm: Century West Engineering Perforations: 0,020 Inch From: 6,98 ft To: 21,58 ft Project Number: 20511-006-02 Prilling Contractor: Kvilhaug Well Drilling Depth Sample Blow Counts From: 6 ft Grout: Cement slurry (bent. <5%) From: 6 ft To: 0,5	SOIL BOR	RING LO	G MW-	2				entur	Wast Fraince		
Borling Location: Myrtle St. downgradient from W UST. Elevation: 16.78 (TOC) Initial GW Depth: 13 ft						Borior					
Durpose: Ground water monitoring Logged By: Jim Gribl Final GW Depth:					UST.						
Date: July 30, 1992 Blank Casing: 4-Inch Sch 40 From: 0 (TOC) To: 6,98 ft											
Consulting Firm: Century West Engineering Perforations: 0.020 Inch Project Number: 20511-006-02 Pfilter Sand: Lonestar Prom: 2 ft To: 21,58 ft Project Number: 20511-006-02 Pfilter Sand: Lonestar Prom: 2 ft To: 6 ft Project Number: 20511-006-02 Pfilter Sand: Lonestar From: 2 ft To: 6 ft Project Number: 20511-006-02 Pfilter Sand: Lonestar From: 2 ft To: 6 ft Project Number: 2 ft To: 6 ft Project Number: 20511-006-02 Pfilter Sand: Lonestar From: 2 ft To: 6 ft Project Number: 4 ft Project Number: 4 ft To: 6 ft Project Number: 2 ft To: 6 ft Project Number: 4 ft Project Number: 4 ft To: 6 ft Project Numbe											
Project Number: 20511-006-02			West Engl	neering							
Drilling Contractor: Kvilhaug Well Drilling Bentonite: Hydrated pellets From: 6 ft To: 5 ft		·									
Depth Sample Blow Profile Soil Description Pipe Remarks	Drilling Contrac	ctor: Kvilha	ug Well Dri	lling							
Depth Sample Blow Counts Profile Soil Description Remarks		4									
1.0 - 3.0 ft Grey clayey SiLT, firm, slightly sandy, moist, slight hydrocarbon odor. 22			Blow	Profile				r IOIII.	1		
03					l			v	PID Reading		
05 MW-2.1 67/7 22 07 14 3.0 - 10.0 ft Grey green clayey SiLT, slightly sandy, soft to firm, molst, moderate hydrocarbon odor. 22 10 10 10 10.0 - 12.5 ft Grey green slity clayey SAND, fine to course, few pebbles, friable, wet, fair hydrocarbon odor. 210 13 MW-2.3 14/26 ▼ ▼ 5	03						sandy, moist, slight hydrocarl odor.	óon			
06 MW-2.1 67 07 14 08 3.0 - 10.0 ft Grey green clayey SiLT, slightly sandy, soft to firm, moist, moderate hydrocarbon odor. 09 10 11 MW-2.2 79 26 26 13 MW-2.3 14 14 V 10.0 - 12.5 ft Grey green silty clayey SAND, fine to course, few pebbles, friable, wet, fair hydrocarbon odor. 5 13 MW-2.3 14 14 V											
08 09 10 10 11 MW-2.2 79 12 26 13 MW-2.3 14 14 V 10.0 - 12.5 ft Grey green silty clayey SAND, fine to course, few pebbles, friable, wet, fair hydrocarbon odor. 5	<u>06</u>	MW-2.1	6 7 14		30-10	0 ft	Grov groop clovey SUT attack	U	22 .		
10 10 10 10.0 - 12.5 ft Grey green silty clayey SAND, fine to course, few pebbles, friable, wet, fair hydrocarbon odor. 210 13 14 26 V 5	1				0.0 - 10		sandy, soft to firm, moist, mo	uy derate			
11 MW-2.2 7 9 10.0 - 12.5 ft Grey green silty clayey SAND, fine to course, few pebbles, friable, wet, fair hydrocarbon odor. 210 13 14 26 ▼ 14 26 ▼ 5							nydrocarbott odor.				
13 14 V 5	10		•	,							
13 14 V 5		MW-2,2	7 9 26		10.0 - 12	2.5 ft	Grey green slity clayey SAND to course, few pebbies, friable fair hydrocarbon odor.	fine , wet,	210		
		MANA/ 2.2	9	4							
	l l	(444-2.0)	26						5		
12.5 - 22.0 ft Reddish brown to occasionally grey SAND, medium to fine, slightly silty,					12.5 - 22	2.0 ft	Reddish brown to occasionally	v grey			
water saturated, no hydrocarbon	~ !						marai sarararan, 110 tiyofocarb	y siity, on			
18	1 1						ouds of states.				
19	1 1		l					Ì			
20	20	 									
21	21								•		
22	22		1			<u></u>					
23 Ground Water Depth - 22 feet Ground Water Depth - 13 feet	23		į		Final Au Ground	iger Dep Water D	th - 22 feet epth - 13 feet				
24				:							
_25	25		İ								

	ORING LO				-	Ce	ntury	West Engineeri		
	on: 1919 Marke					ng ID: MW-3		Depth: 22 ft		
Purnose: (ation: Myrtle S	t. downgrad	I. from UST	s & disp.	į.	ation: 17.04 (TOC)		GW Depth: 13 ft		
Date: July	Pround water r	nonitoring			Logg	W Depth:				
		. 142			1	k Casing: 4-inch Sch 40		0 (TOC) To: 7.14 ft		
	Firm: Centur		ineering		Perforations: 0.020 inch From: 7.14 ft To: 21.					
					Filter Sand: Lonestar From: 22 ft To: 6 ft					
	tractor: Kvilh		illing	· · · · · · · · · · · · · · · · · · ·		onite: Hydrated pellets F		6 ft To: 5 ft		
1	hod: Hollow s		T	T	Grou	ti Comont alumi (hans mas)	rom:			
Depth	Sample ID	Blow Counts	Profile		Soil D	escription		Remarks		
01				0.0 - 1.	.0 ft	Asphalt and base rock.		DID 0		
02				1.0 - 3.	5 ft	Brown to grey clayey SILT, firm, moist, no hydrocarbon odor or		PID Reading		
03			`]		moist, no hydrocarbon odor or stain.	'			
04		1	1	1						
05										
26	MAN	4 7		<u> </u>						
27	MW-3.1	7 14	ļ	3.5 - 8.0	D ft	Grey green silty CLAY, firm, mo faint hydrocarbon odor.	ist,	3		
28]			and the state of t				
29			.,			`				
10							ļ			
		3		8.0 - 12,i	E 4	Constant and the	-			
	MW-3,2	3 7 11		0.0 - 12,	J IL	Grey to occasionally green CLAY slightly slity, hard, no hydrocarbo odor.	on	3		
3						odor,	ı	·		
4	MW-3.3	6 10 11								
15							[1		
6				12.5 - 22.0	0 ft	Reddish brown to tan SAND, fine	,			
7		ļ	İ			saturated, no hydrocarbon odor o				
<u> </u>						stain.		•		
9			ļ							
20										
1										
₽										
3		j		Final Aug Ground V	er Dept Vater D	th - 22 feet epth - 13 feet				
		1	ł		_					
25										

.

	ORING LC				Century West Engineer					
Boring Loca	ation: Adjacent	to dispense	or & ID 4		Boring ID: MW-4 Total Depth: 24 ft					
Purpose: G	round water n	nonitarina	7 & ID-4.		Elevation: 18.20 (TOC) Initial GW Depth: 14 ft					
Date: July					Logged By: Jim Gribi Final GW Depth:					
Consulting	Firm: Century	/ West Engi	neerina		Blank Casing: 4-Inch Sch 40 From: 0 (TOC) To: 9.07 ft					
Project Num	nber: 20511-00	06-02			Perforations: 0.020 inch From: 9.07 ft To: 24.13 ft					
	tractor: Kvilha		lling		Filter Sand: Lonestar From: 24 ft To: 7 ft					
Drilling Meti	od: Hollow st	em auger			Bentonite: Hydrated pellets From: 7 ft To: 6 ft					
Depth	Sample ID	Blow	Profile		Grout: Cement slurry (bent. <5%) From: 6 ft To: 0.5 ft					
		Counts	1101110		Soil Description Remarks					
01				0.0 - 0.5	PID Reading					
<u>02</u> <u>03</u>				0.5 - 3.0	0 ft Grey brown silty SAND, fine, moist, slightly clayey, no hydrocarbon odor or stain.					
04 05	_			3.0 - 6.0	Grey clayey SILT, slightly sandy, firm, no hydrocarbon odor or stain.					
06 07 08 09 10	MW-4.1	. 3 4 8		6.0 - 12,0	oft Grey green silty CLAY, slightly sandy, moist, no hydrocarbon odor to 11 ft, slight hydrocarbon odor from 11 ft.					
11 12 13 14 15	MW-4.2	7 11 16			0					
6 7 8 9				12.0 - 20.0	ft Grey silty SAND, medium to fine, loose, slightly clayey, wet to saturated, moderate hydrocarbon odor from 12 to 15 ft.					
1				20.0 ~ 24.0 f	ft Tan silty SAND, fine, slightly clayey, loose, water saturated, no hydrocarbon odor or stain.					
<u>25</u>				Final Auger Ground Wa	r Depth - 24 feet ater Depth - 14 feet					

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SOIL I	BOR	ING LO	G MW-	5				ontun	West Engineering		
			St., Oaklan			Bodo	g ID: MW-5				
ra			nt from disp		Ts.				Total Depth: 25 ft		
61		nd water m				Elevation: 18.93 (TOC) Logged By: Jim Gribi			GW Depth: 14.5 ft		
Date: Ju						[Casing: 4-inch Sch 40		SW Depth:		
			West Engl	neerina			rations: 0.020 inch		0 (TOC) To: 10.17 ft		
BT .	Consulting Firm: Century West Engineering Project Number: 20511-006-02						Sand: Lonestar	_	10.17 ft To: 25.23 ft		
			ug Well Dril	ling			nite: Hydrated pellets		25 ft To: 8 ft		
K		Hollow st		·····			: Cement slurry (bent. <5%)	· · · · · · · · · · · · · · · · · · ·	8 ft To: 7 ft		
Depth		Sample ID	Blow Counts	Profile			escription	From:	7 ft To: 0.5 ft Remarks		
24					0.0 - 1	.0 ft	Asphalt and base rock.	·	DID Doodles		
<u>01</u> <u>02</u>					0.5 - 4	.0 ft		ist.	PID Reading		
<u>03</u>				*			Grey brown clayey SILT, moi slightly sandy, no hydrocarbo or stain.	on odor	;		
<u>04</u>		'									
05											
<u>Q6</u>									•		
<u>.07</u>	ł										
<u>08</u>	1	MW-4,1	3 4 8		4.0 - 14	l.0 ft	Grev green silty Ci AV soft	moiet			
<u>09</u>	,		8		,		Grey green silty CLAY, soft, no hydrocarbon odor or staln). -	0		
10											
11	[i			. ' ' ' ' ' '	. '		
12	ı										
<u>13</u>	<u> </u>	MW-4,2	7 11 16						o		
14			10	∇							
15											
16											
17	· }										
<u>18</u>	i							į			
<u>19</u>]				14.0 - 25	5.0 ft	Grey brown silty SAND, fine t medium, loose, wet to satura hydrocarbon odor or stain.	o ted no			
20					· [hydrocarbon odor or stain.	.vu, 110			
<u>21</u> <u>22</u>	ŧ	ļ	l					}			
<u>22</u> <u>23</u>	j	į		İ							
24	{							Ì			
25		!							ļ		
					Final Au Ground	ger Der Water	oth - 25 feet Depth - 14.5 feet				

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SOIL	BOF	RING LC)G <i>IB-</i> 1					C	
			t St., Oaklan	d 00		Τ			West Engineering
[I			. downgradi				ID: IB-1		Depth: 11.5 ft
		<u>Investigatio</u>		on nom E	<u>081.</u>			ial GW Depth	None
II		er 25, 1992				Logged By: Jim Gribl		Final G	W Depth: None
il .			West Engl	naarina		1	Casing:	From:	То:
11		r: 20511-00		reeting			ations:	From:	To:
))			aug Well Dril	lina		Filter S		From:	To:
ł I		: Hollow st		urig		Benton		From:	To:
		Sample	Blow		<u> </u>		Cement slurry (bent. <5%) From:	11.5 ft To: Surf.
Depth	ļ	ID	Counts	Profile		Soil Des	scription	:	Remarks
<u>01</u>]	J			0.0 - 1.	.0 ft	Asphalt and base rock.		PID Reading
<u>02</u>		!			1.0 - 4.	.0 ft	Brown sandy SILT, slight slightly moist, no hydrocor stain.	ily clayey, arbon odor	1)9 Hodaling
<u>03</u> 04					4.0 - 5.	.5 ft		aft, maist	
05							Buff to tan sandy SILT, s no hydrocarbon odor or	stain.	
<u>06</u> <u>07</u> <u>08</u>	T	IB-1.1	6 9 14		5.5 - 10	.0 ft	Grey green silty CLAY, sandy, hard, moles, mode hydrocarbon odor.	slightly erate	0
<u>09</u> 10				7			5		
11 12 13	T	(B-1.2	6 12 16		10.0 - 11	.5 ft	Grey green to occasional sandy SILT, dense to occ friable, faint to moderate hydrocarbon odor.	ly brown asionally	12
14 15					FINAL AU NO GRO	JGER DE JUND WA	PTH - 11.5 ft TER ENCOUNTERED		
<u>16</u>								ļ	-
<u>17</u>							•		
<u>18</u>									
<u>19</u>	[[ĺ					
20									

FIETS

		ING LO						Century	West Engin	
			St., Oaklan			Boring ID: IB-2 Total Depth: 11.5 ft				
			downgradie	ent from W	UST.	Eleva	tion: None	Initial GW Depth:	None	
_		investigation				Logg	ed By: Jim Gribi	Final G	W Depth: None	
		er 25, 1992			····		Casing:	From:	To:	
		r: 20511-00	West Engl	neering			rations:	From:	To:	
							Sand:	From:	To:	
		: Hollow st	ug Well Dril	ling		Bento	***************************************	From:	To:	
	nounou	Sample		*	I	Grout	Cement slurry (bent.	<5%) From: 1	1.5 ft To:	
Depth	<u> </u>	ID	Blow Counts	Profile		Soil De	escription		Remark	
01 02 03 04 05 05 07 08 09	Т	IB-2.1	8 8 15		1.0 - 7. 7.0 - 10		Asphalt and base ro Brown silty SAND, to hydrocarbon odor o Grey green clayey S faint to moderate hy	oose to firm, no or stain.	PID Reading .	
11 12 13 14 15	Τ.	18-2.2	5 8 15		10.5 - 11 FINAL AI NO GRO		Grey green silty SAN slightly clayey, some streaks, moderate hy odor. EPTH - 11.5 ft ATER ENCOUNTERED	į	28	
16 17 18 19										

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<u>SOIL</u>	BOI	RING LC	OG <i>IB-5</i>					Century	West	Engineeri	
			t St., Oaklaı			Bori	Boring ID: IB-5 Century West Engin				
Boring L	ocatio	n: Myrtle S	. downgrad	ent from No	orth UST.	1	Total Deptil: 12.5 ft				
Purpose	: Soli	investigatio	n			Logged B. But a					
_Date: J						1	ik Casing:	titlet CTT Beptil: 14008			
Consulting Firm: Century West Engineering							orations:	From:		To:	
Project I	lumbe	r: 20511-00	06-03				r Sand:	From:		To:	
Drilling (Ontra	ctor: Kvilha	ug Well Dri	lling			onite:	From:	 -	To:	
		: Hollow st					it: Cement slurry (bent. <5%	From:	-	To:	
Depth	1	Sample	Blow	Profile) From:	12.5 ft	To: Surf.	
	 	<u> </u>	Counts	Pione		SOILE	escription	:	}	Remarks	
01	ł		!	!	0.0 - 1.	.5 ft	Concrete and base rock.				
<u>02</u> 03				,	1,5 - 4.	.0 ft	Dark brown loose SILT, s clayey, moist, no hydroca or stain.	lightly arbon odor			
<u>04</u> 05					4.0 - 9.	.0 ft	Grey silty CLAY, firm, months hydrocarbon odor or stair				
<u>06</u> <u>07</u> <u>08</u>	T	IB-5.1	5 9 10								
09 10					9.0 - 12.	.5∙ft	Grey green sandy SILT, si clayey, firm, moist, no hyd odor or stain.	ightly Irocarbon			
11 12	т [,]	IB-5.2	6 8 13		FINAL AU NO GRO	IGER D UND W	PEPTH - 12.5 ft PATER ENCOUNTERED				
13 14 15											
								-			

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		RING LC				Century West Engineer				
		1919 Marke				Boring ID: IB-6 Total Depth: 12.5 ft				
Boring L	-ocatio	n: Myrtie Si	. downgrad	lent from So	outh UST	Elevation: None Initial GW Depth: None				
		investigatio	<u>n</u>			Logged By: Bob Bogs				
Date: Ju				<u> </u>		Blank Casing:	From:	GW Depth: approx 12 To:		
Protect A	lumb b	m: Century	West Eng	ineering		Perforations:	From:			
		r: 20511-00		···		Filter Sand:	From:	To:		
		otor: Kvilha		lling		Bentonite:	From:	To:		
	Veriloc	: Hollow st		T		Grout: Cement slurry (
Depth	 -	Sample ID	Blow Counts	Profile		Soll Description		Remarks		
02 03 04 05 05 07 08 09	τ	IB-6.1	6 10 14		1.0 - 4. 4.0 - 7.0	firm, no hydrod ft Grey silty CLAY odor.	silty CLAY, loose to earbon odor or stain.			
11 12 13 14 15	Τ	IB-6.2	13 17 26		7.0 - 11.5 FINAL AU GROUND	ft Grey green slity no hydrocarbon slity sand. GER DEPTH - 12.5 ft WATER - APPROX. 12 ft.	CLAY, firm, moist, odor, Grades to			

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			OG <i>IB-7</i>			,		.Century	West Engineer
Boring I	ation:	1919 Marke	ot St., Oaklai	nd, Ca.		Boring ID: IB-7 Total Depth: 10 ft			
Purpose	OCALIC	n: South of	dispenser p	ad inside b	uliding	Eleva	ation: None	W Depth: None	
		investigatio	n			Logg	Logged By: Bob Bogar Final GW De		
Date: June 25, 1993 Consulting Firm: Century West Engineering							Casing:	From:	
Project A	lumb.	m: Centur	/ West Engi	neering ·		Perfo	rations:	From:	To:
		er: 20511-0		·		Filter	Sand:	From:	To:
			aug Well Dri	lling	······	Bento	onite:	From:	To:
	Notifica	Hand au		Τ	 _	Grout	: Cement slurry (bent. <5%)	From: 10	
Depth	<u> </u>	Sample ID	Biow Counts	Profile			escription		Remarks
01 02 03 04 05 06 07 08 09 10	T	IB-7.1	4 7 9		0.0 - 1 1.0 - 3 3.0 - 5 5.0 - 8.0	1.0 ft 1.0 ft	Concrete Dark brown moist clayey SI hydrocarbon odor or stain. Medium to light brown moist clayey to sandy SILT, no hydrocarbon odor or stain. Grades to CLAY, mottled light brown. Light to dark green moist Castrong hydrocarbon odor.	aht to	
11 12 13 4 15	T	ÎB-7.2	8 14 15		FINAL AU NO GROI	IGER DE JND WA	EPTH - 10.0 ft ITER ENCOUNTERED		

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SOIL	BOF	ING LO	G <i>IB-8</i>					Centur	West Engineering
Site Location: 1919 Market St., Oakland, Ca.							g ID; IB-8		
Boring Location: North of dispenser pad in building.							Elevation: None		Depth: 10.0 ft
Purpose: Soil Investigation							Logged By: Bob Bogar		GW Depth: None
Date: June 25, 1993							Casing:		W Depth: None
Consultin	Consulting Firm: Century West Engineering						ations:	From:	To:
1		<u>r: 20511-00</u>				Filter S		From:	To:
Drilling C	Ontrac	tor: Kvilha	ug Well Dril	ling		Bentoi		From:	To:
		: Hand aug					Cement slurry (bent. <5%)	From:	To:
Depth		Sample	Blow	Profile				From: 1	, , , , , , , , , , , , , , , , , , ,
	 	ID'	Counts	Profile		Soll De	scription		Remarks
<u>01</u>	•				0.0 - 2.		Concrete		
<u>05</u>					2.0 - 8.	0 ft	Dark brown, moist silty CLA hydrocarbon odor or stain.	Y, no	
<u>03</u>	i 1						my and daily or or stain.		
<u>04</u>		l						j	-
05									
ne l	т	15	6	ļ				f	
<u>06</u>	1	IB-8.1	6 10 22					1	
<u>07</u> _08				ĺ	8.0 - 10.	.O ft	Light to dark green, motet e	114.4	∦
<u>09</u>							Light to dark green, moist a CLAY, strong solvent odor.	iity	1
10				ł]	
		<u> </u>		ļ				Ļ	
11	T	IB-8.2	19 19 23)	FINAL AL	JGER DE	PTH - 10.0 ft	ļ	
12	1		23	J	NO GRO	UND WA	TER ENCOUNTERED		i
<u>.13</u>								ľ	
14	į (ļ	ľ				ł	#
15			1	1				- 1	J
				ł					
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