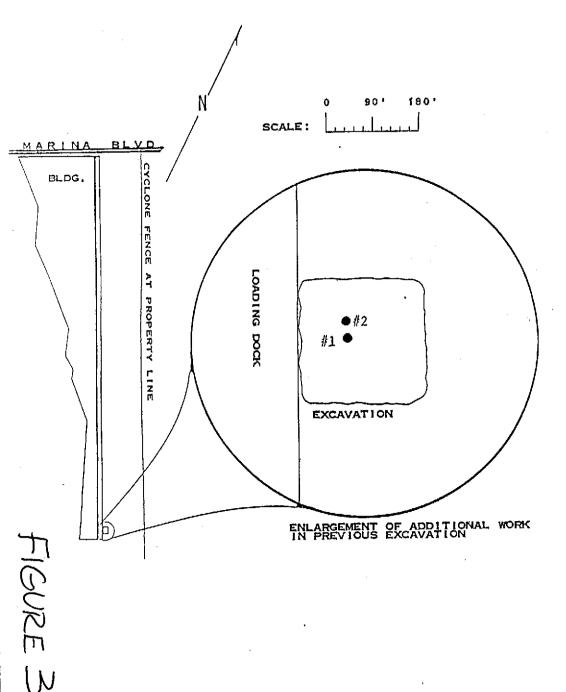


MAP REF: THOMAS BROS, ALAMEDA COUNTY

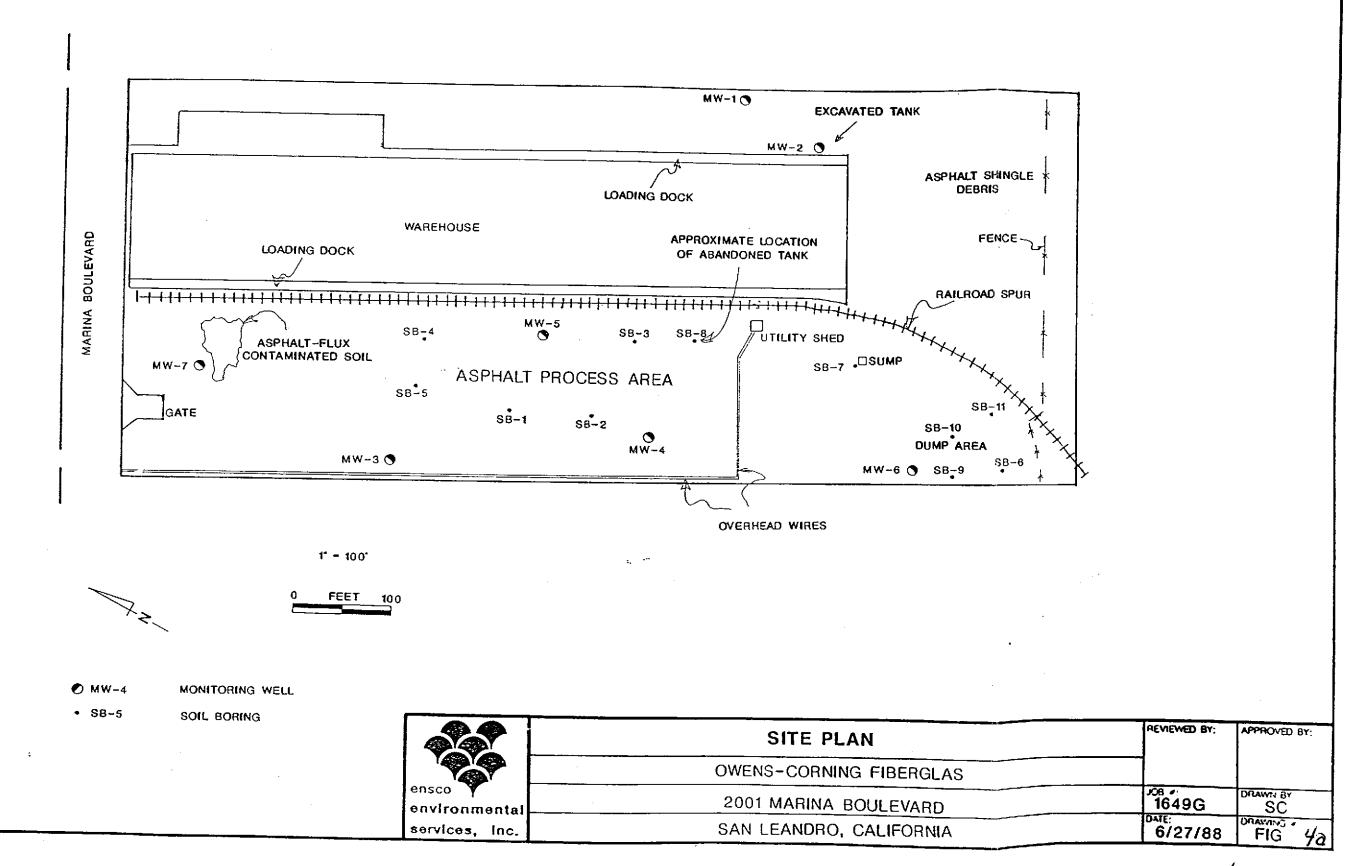
- #1 SCIL FROM 8. ANALYSIS FOR TOTAL PETROLEUM HYDROCARBONS (TPH) AS GASOLINE, AND BENZENE, TOLUENE AND XYLENES BT A BAT ANALE (ABORATORY
- #2 SOIL FROM 8 ANALYSIS FOR TPH AS GASOLINE,

SAMPLING PERFORMED BY HELEN MAWHINNEY DIAGRAM PREPARED BY BRENT ADAMS



- SOIL FROM 8' ANALYSIS FOR TPH AS GASOLINE, AND BIX ANATEC

SAMPLING PERFORMED BY STEPHEN CARTER DIAGRAM PREPARED BY BRENT ADAMS



. , .

FIGURE 40

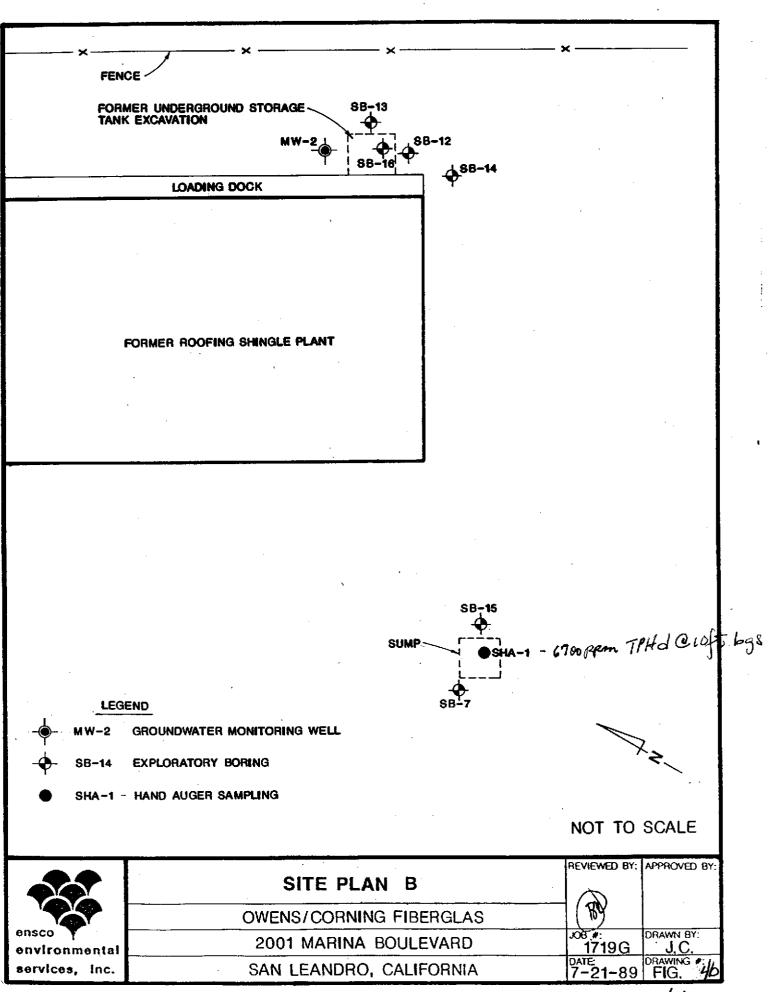
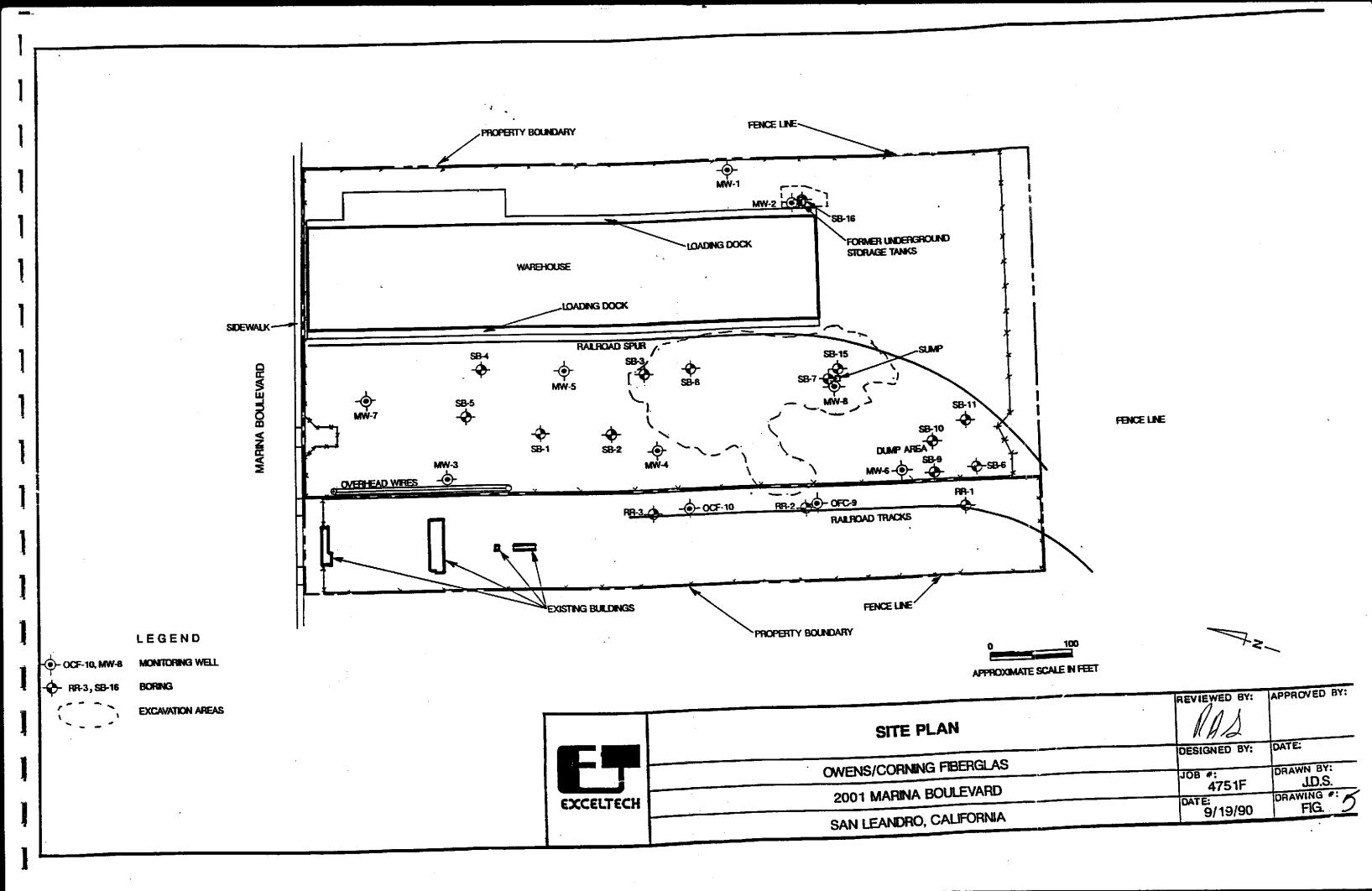


FIGURE 46



EVAPORATED BLOWDOWN OIL OR A HIGHER

BOILING RESIDUUM PRODUCT

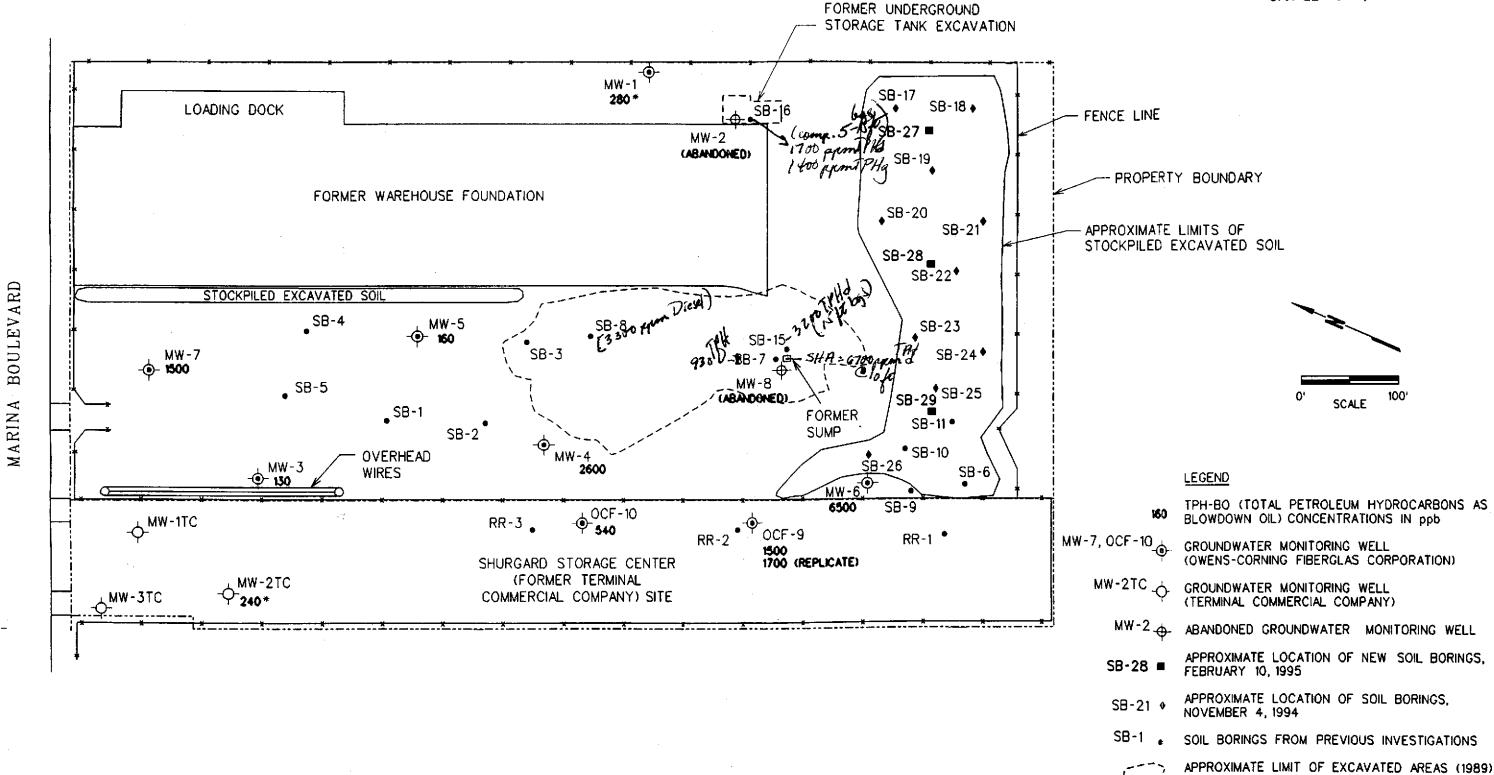




TABLE 1 SOIL ANALYSES DATA

Owens Corning; 1649G

SAMPLE #	DATE SAMPLED	Derth Ur.)	TPHD (ppm)	TPHG (ppm)	BENZENE (ppm)	TOLUENE (ppm)	XYLENES (ppm)	ETHYL BENZENE (ppm)	TOTAL LEAD(ppm)
MW-1-1	5/23/88	4	BDL	BDL	BDL	BDL	BDL	BDL	4.2
MW-1-2	5/23/88		BDL	BDL	BDL	BDL	BDL	BDL	5.5
MW-2-1	5/23/88	_	NA	BDL	BDL	BDL	BDL	BDL	BDL
MW-2-2	5/23/88		NA	16	0.015	0.036	0.59	0.21	4.8
MW-3-1	5/24/88	9	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-3-2	5/24/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-4-1	5/24/88	4	5.8	BDL	BDL	BDL	BDL	BDL	NA
MW-4-2	5/24/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-5-1	5/24/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-5-2	5/24/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-6-1	5/24/88	49	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-6-2	5/24/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-7-1	5/25/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-7-2	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-1-1	5/23/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-1-2	5/23/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-2-1	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-2-2	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-2-3	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-3-1	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-3-2	5/25/88		BDL	BDL	BDL	BDL	BDL	BDL	NA

TABLE 1
SOIL ANALYSES DATA (CONT.)

Owens Corning; 1649G

SAMPLE #	DATE	TPHD	TPHG	BENZENE	TOLUENE	XYLENES	ETHYL BENZENE	TOTAL LEAD
	SAMPLED	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
	· · · · · · · · · · · · · · · · · · ·		<u> </u>				TELX	тррии
SB-3-3	5/25/88	87	4	BDL.	BDL	0.13	BDL	NA
	•						_	, ,
SB-4-1	5/25/88	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-4-2	5/25/88	BDL	BDL	BDL	BDL.	BDL	BDL	NA
SB-5-1	5/25/88	BDL	BDL	BDL	BDL	BDL	BDL,	NA .
SB-5-2	5/25/88	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-6-1	5/25/88	OD	201	DDI	55 1	DDI.		
		BDL	BDL	BDL	BDL	BDL.	BDL	NA
SB-6-2	5/25/88	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-7-1	5/25/88	930	BDL	BDL	BDL	BDL	BDL	NA
SB-7-2	5/25/88	composite	222	552		DOL	DUL	IVA
_								
SB-7-3	5/25/88	BDL	BDL	BDL.	BDL	BDL	BOL	NA
SB-7-4_	5/25/88	composite						1473
		•						
SB-7-5	5/25/88	BDL	BDL	BDL	BDL	BDL	BDL	NA
								117.
SB-8-2	5/26/88	3,300	2.3	BOL	BDL	0.10	BDL	3.0
SB-8-3	5/26/88	570	BDL	BDL	BDL	BDL	BDL	8.0
SB-8-4	5/26/88	BDL.	BDL	BDL	BDL	BDL.	BDL	BDL
				·				
SB-9	5/26/88	BDL	NA	NA	NA	NA	NA	NA
SB-10	5/26/88	BDL	NA	NA	NA	NA	NA	NA
								1 00 1
SB-11	5/26/88	BDL	NA	NA	NA	NA	NA	NA
							• • •	

TABLE 2
GROUND-WATER ANALYSES DATA

Owens Coming 1649G

 WELL	DATE	TPHD (ppb)	TPHG (ppb)	BENZENE (ppb)	TOLUENE (ppb)	XYLENES E	THYL BENZENE (ppm)	TOTAL LEAD (ppb)	WELL ELEV.	DEPTH TO WATER (ft.)
MW-1	5/31/88	BDL	BDL	BDL	BDL	BDL	BDL	120	22.55	12.16
MW-2	5/31/88	NA	460	BDL	BDL	15	6.4	110	21.34	13.13
MW-3	5/31/88	BDL	59	BDL	BDL	BDL	BDL.	NA	26.79	17.21
MW-4	5/31/88	BDL	49	BOL	BDL	BDL	1.3	NA	26.09	16.19
MW-5	5/31/88	BDL.	BDL	BDL.	BOL	BDL	BDL	NA	25.40	16.63
MW-6	5/31/88	BDL	50	BDL	BDL	BDL	1.2	NA	24.85	16.68
MW-7	5/31/88	BDL.	BDL	BDL	BDL	BDL	BDL	NA	25.02	16.25

TVH = Total Volatile Hydrocarbons as Gasoline

TEH = Total Extractable Hydrocarbons as Diesel

ppb = parts per billion

BDL = Below Detection Limit

Note: For detection limits, refer to laboratory reports

Current Department of Health Services Action Levels

Benzene 0.7 ppb

Toluene 100 ppb

Xylenes 620 ppb

Note: Subject to change as reviewed by Department of Health Services

TABLE 3
SOIL ANALYSES DATA

Sample Number		Date Sampled	Sample Depth (ft.)	TPHD (ppm)	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
SB7-1 SB7-2	Composite	5/25/88	5-10	930	BDL	BDL	BDL	BDL	BDL	N.A.
MW2-1		5/23/88	6.5	N.A.	BDL	BDL	BDL	BDL	BDL	BDL
MW2-2		5/23/88	11.5	N.A.	16	0.015	0.036	0.21	0.59	4.8
SB12-1		5/22/89	5	ND	3	ND	ND	ND	ND	8.03
SB12-2		5/22/89	10	26	ND	ND	ND	ND	ND	3.36
SB12-3		5/22/89	15	27	89	ND	ND	ND	ND	5.56
SB13-1		5/22/89	5	ND	ND	ND	ND	ND	ND	10.4
SB13-2		5/22/89	10	ND	ND	ND	ND	ND	ND	2.66
SB14-1		5/22/89	5	ND	ND	ND	ND	ND	ND	2.66
SB14-2		5/22/89	10	ND	1	ND	ND	ND	ND	8.03
SB14-3		5/22/89	15	13	57	ND	ND	ND	ND	7.91
SB15-1		5/22/89	5	1,200	3	ND	ND	ND	ND	3.9
SB15-2		5/22/89	10	ND	1	ND	ND	ND	ND	3.46
SB15-3		5/22/89	15	3,200	47	ND	ND	ND	ND	6.13

Ensco Environmental Services, Inc. Project No. 1719G

TABLE (Continued) SOIL ANALYSES DATA Owens/Corning Fiberglas 2001 Marina Boulevard San Leandro, CA

Sample Number	Date Sampled	Sample Depth (ft.)	TPHD (ppm)	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
SB16-1 Composite	5/23/89 5/23/89	5.5 10	1,700	1,400	ND	ND	15	110	24.1
SB16-3 SHA-1 — sump.	5/23/89 5/23/89	15 10	6,700	19	ND	ND	ND_	ND	14

TPHD =

Total petroleum hydrocarbons as diesel Total petroleum hydrocarbons as gasoline TPHG =

Not detected ND =Not available N.A. =

Below detection limits BDL =

ppm =

Parts per million
See lab reports for detection limits Note:

GROUNDWATER ANALYSES DATA

Sample Number	Date Sampled	TPHD (ppb)	TPHG (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Total Xylenes (ppb)	Total Lead (ppb)	Depth To Water (ft.)
BB-J1	5/22/89	ND	ND	ND	ND	ND	ND		
MW-1	5/31/88 5/22/89	BDL ND	BDL ND	BDL ND	BDL ND	BDL ND	BDL ND	120 8	13.57
MW-2	5/31/88 5/22/89	 ND	460 50	BDL ND	BDL ND	6.4 ND	15 ND	110 12	12.48
MW-3	5/22/89					 -		11	18.85
MW-4	5/25/89							44	18.20
MW-5	5/22/89							13	17.92
MW-6	5/22/89							13	17.14
MW-7	5/22/89							8	16.90

Total petroleum hydrocarbons as diesel Total petroleum hydrocarbons as gasoline Below detection limit TPHD =

TPHG =

BDL =

Not detected ND =

ppb =

Parts per billion
Analysis not requested

San Leandro Soil Sampling Results

		Sample					Ethyl	Total	Total
Sample Number	Date	Depth	TPHD	TPHG	Benzene	Toluene	Benzene	Xylenes	Lead
IACHIDAI	Sampled	(Ft.)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
MW-1-1	5/23/88	4	BDL	BDL	BDL	BDL	BDL	BDL	4.2
MW-1-2	5/23/88	9	BDL	BDL	BDL	BDL	BDL BDL	BDL	5.5
		_		002	552	500	002	DOC	5.5
MW-2-1	5/23/88	6.5	NA	BDL	BOL	BDL	BDL	BDL	BOL
MW-2-2	5/23/88	11.5	NA	16	0.015	0.036	0.21	0.59	4.8
MW-3-1	5/24/88	4	BDL	BDL	BDL	BDL	BDL	ĎD.	210
MW-3-2	5/24/88	9	BDL	BOL	BDL	BDL	BDL	BDL BDL	NA ·
		_			550	222	DDL	DUL	NA
MW-4-1	5/24/88	4	5.8	BDĻ	BDL	BDL	BDL	BDL	NA
MW-4-2	5/24/88	9	BDL	BDŁ	8DL	BDL,	BDL	BDL	NA
104 5 A						•			
MW-5-1	5/24/88	4	BDL	BOL	BDL	BDL	BDL	BDL	NA
MW-5-2	5/24/88	9	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-6-1	5/24/88	4	BDL	8DL	BOL	BDL	BOL	BDL	NA
MW-6-2	5/24/88	9	BDL	BDL	BDL	BDL	BDL	BDL	NA.
						- 			1111
MW-7-1	5/25/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-7-2	5/25/88	9	BDL	BDL	BDL	BDL	BDL	BDL	NA
MW-8-1	10/18/89	6	2400		NO.	ND			
MW-8-2	10/18/89	11	ND	11 ND	ND ND	ND ND	ND	ND	8.81
MW-8-3	10/18/89	16	580	ND	ND	NO	ND ND	ND ND	4.28
			-	,,,,		110	ND	ND	8.3
SB-1-1	5/23/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-1-2	5/23/88	9	BD L	BDL	BDL	BDL	BDL	BDL	NA
SB-2-1	5/25/88	4	BDL	BDL	BDL	BD L	201		
SB-2-2	5/25/88	9	BDL	BDL	BDL	BDL	BDL BDL	BDL BDL	NA NA
SB-2-3	5/25/88	14	BDL	BDL	BOL	BDL	BDL	BDL	NA NA
•						552	502	000	IXA
SB-3-1	5/25/88	4	BDL	BDL	BOL	BDL	BDL	BOL	NA
SB-3-2	5/25/88	9	BOL	BDL	BDL	BDL	BOL	BDL	NA
SB-3-3	5/25/88	14	87	4	BDL	BDL	BDL	0.13	NA
\$B-4-1	5/25/88	4	BDŁ	BDL	BD!	DOI	201	55.	
SB-4-2	5/25/88	9	BDL	BDL	BDL BDL	BDL BDL	BDL BDL	BDL	NA
	0.20.00	J	CDC	001	BUL	BUL	PDL	8DL	NA
SB-5-1	5/25/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-5-2	5/25/88	9	BDL	BDL	BDL	BDL	BDL	BDL	NA
60 6 4									
SB-6-1	5/25/88	4	BOL	BDL	BDL	BDL	BDL	BDL	NA
SB-6-2	5/25/88	9	BDL	BDL	BDL	BDL	BDL	8DL	NA
SB-7-1 composite	5/25/88		930	BDL	BDL	BDL	BDL	BDL.	NA
SB-7-2 composite		-			552	550	DDL		IVA

TPHD - Total Petroleum Hydrocarbons as Diesel
TPHG - Total Petroleum Hydrocarbons as Gasoline

NA - No Sample Analysis

ND - Not Detected

BDL - Below Detection Limits

San Leandro Soil Sampling Results

Sample Number		Date Sampled	Sample Depth (Ft.)	TPHD (ppm)	TPHG (ppm)	Benzene (ppm)	Toluene (ppm)	Ethyl Benzene (ppm)	Total Xylenes (ppm)	Total Lead (ppm)
SB-7-3	composite	5/25/88		BOL	BOL	BDL	BDL	BDL	BDL	NA
SB-7-4	composite	5/25/88		÷						
\$B-7-5		5/25/88	4	BDL	BDL	BDL	BDL	BDL	BDL	NA
SB-8-2		5/26/88	4	3300	. 2.3	BDL	BDL	BDL	0,1	3
SB-8-3		5/26/88	9	570	BDL	BDL	BDL	BDL	BDL	8
SB-8-4		5/26/88	14	BDL	BDL	BDL	BDL	BOL	BDL	NA
SB-9		5/26/88	1-2	BDL	NA	NA	NA	NA	· NA	NA
SB-10		5/26/88	1-2	BDL	NA	NA NA	NA	NA	NA	NA
SB-11		5/26/88	1–2	BDL	NA	NA	NA	NA	NA	NA
SB-12-1		5/22/89	5	ND	3	ND	ND	ND	ND	8.03
SB-12-2		5/22/89	10	26	NĐ	ND	ND	ND	ND	3.36
SB-12-3		5/22/89	15	27	89	ND	ND	ND	ND	5.56
		F14444							W.D.	
SB-13-1		5/22/89	5	ND	ND	ND	ND	ND	ND	10.4
SB-13-2		5/22/89	10	ND	ND	ND	ND	ND	ND	2.66
SB-14-1		5/22/89	5	ND	ND	ND	ND	ND	ND	2.66
SB-14-2		5/22/89	10	ND	1	ND	ND	ND	ND	8.03
SB-14-3		5/22/89	15	13	57	ND	ND	ND	NĎ	7.91
SB-15-1		5/22/89	5	1200	3	ND	ND	ND	ΝD	3.9
SB-15-2		5/22/89	10	ND	1	ND	ND	ND	ND	3.46
SB-15-3		5/22/89	15	3200	47	ND ·	ND	ND	ND	6.13
SB-16-1	composite	5/22/89	5.5							
SB-16-2	composite	5/22/89	10	1700	1400	ND	ND	15	110	24.1
SB-16-3	composite	5/22/89	15		•					
SHA-1		5/22/89	10	6700	19	ND	ND	ND	ND	14

TPHD - Total Petroleum Hydrocarbons as Diesel

TPHG - Total Petroleum Hydrocarbons as Gasoline

NA - No Sample Analysis

ND - Not Detected

BDL - Below Detection Limits

San Leandro Groundwater Monitoring Results

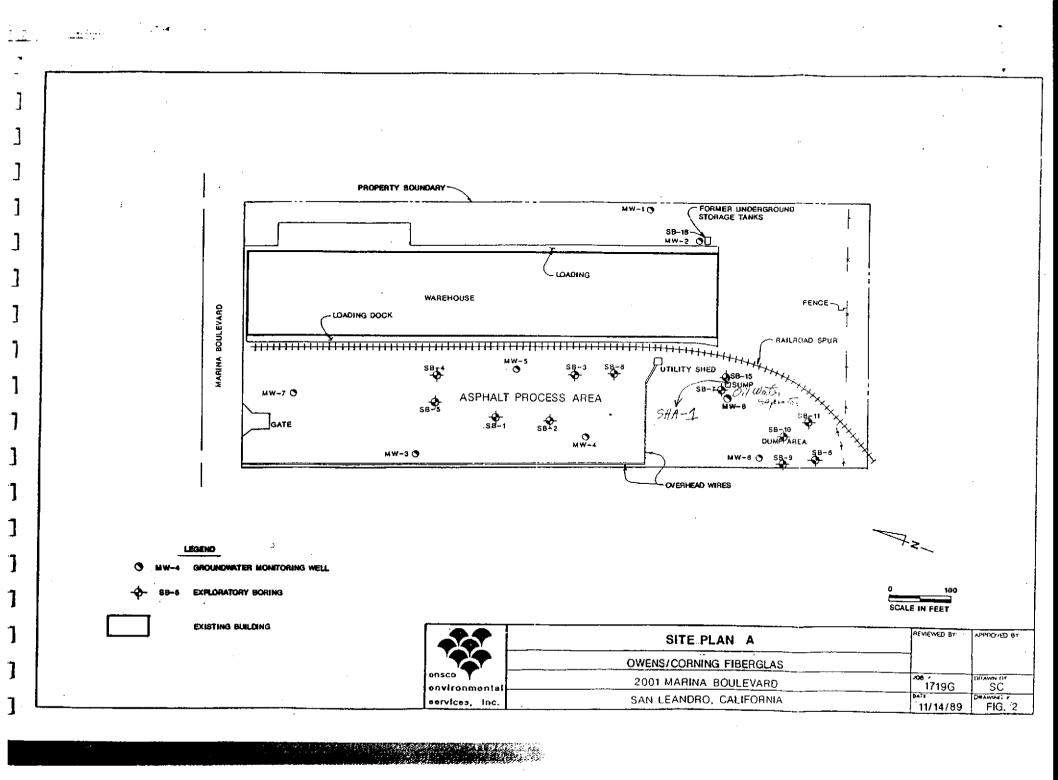
Sample Number	Date Sampled	TPHD (ppb)	TPHG (ppb)	Benzene (ppb)	Toluene (ppb)	Ethyl Benzene (ppb)	Totai Xylenes (ppb)	Total Lead (ppb)	Well Elevation (Ft.)	Depth to Water (Ft.)
MW-1	5/31/88	501	001							, , , , , , , , , , , , , , , , , , ,
		BDL	BOL	BDL	BDL	BDL	BDL	120	22.55	12.16
MW-1	5/22/89	ND	ND	ND	ND	ND	ND	8	22.55	13.57
MW-2	5/31/88		460	BDL	BDL	6.4	15	110	21.34	13.13
MW-2	5/22/89	ND	50	ND	ND	ND	ND	12	21.34	12.48
MW-3	5/31/88	OD!	50	DD)	001					
		BDL	59	BDL	BDL	BDL	BDL		26.79	17.21
MW-3	5/22/89					_		11	26.79	18.85
MW-4	5/31/88	BDL	49	BDL	BDL	1.3	BDL		26.09	16,19
MW-4	5/22/89					_		44	26.09	18.85
MW-5	5/31/88	BDL	BDL	BDL	BDL	8DL	BDL		25.4	16.63
MW-5	5/22/89			550		OUL	BDL			
19191-5	3122169						_	13	25.4	17.92
MW-6	5/31/8 8	BDL	50	BDL	BDL	1.2	BDL		24.85	16.68
MW-6	5/22/89		******		_			13	24.85	17.14
MW-7	5/31/88	BDL	BDL	8DL	8DL	BDL	BDL		25.02	16.25
MW-7	5/22/89									
14144-1	5,22169							8	25.02	16.9
8-WM	11/1/89	2300	80	ND	0.8	ND	ND	20	22.4	15

TPHD - Total Petroleum Hydrocarbons as Diesel TPHG - Total Petroleum Hydrocarbons as Gasoline

--- - No Sample Analysis

ND - Not Detected

BDL - Below Detection Limits





PROJECT NUMBER: 1649 G

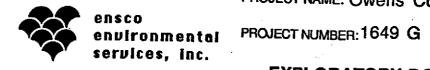
BORING NO. MW-1

DATE DRILLED: 5-23-88

LOGGED BY: SC

EXPLORATORY BORING LOG

Fill: Coarse gravel baserock SILTY CLAY, very dark brown (10YR 2/2), trace sand, low plasticity, damp - increase in silt at 3' INTERBEDDED SILTY SAND, CLAYEY SAND, AND CLAY: SILTY SAND, dark brown (10YR 3/3), predominantly fine, 15% coarse sand to fine gravel, medium dense, damp, becomes coarse and to fine gravel, medium dense, damp, becomes coarse and to fine gravel, medium dense, damp, becomes coarse and fines are mostly clay, rare rootholes, very rare shell fragments, very close, very moist to wet. CLAY. very dark gray (10YR 3/1), trace sand, fines are mostly clay, rare rootholes, very rare shell fragments, very dark gray (10YR 3/1), trace sand, five rootholes, high plasticity, very stiff, moist SM SM SANDY CLAY, light dive brown (2.5Y 5/4), 20 to 30% fine to medium sand, trace silt, rare to few rootholes fine to medium sand, trace silt, rare to few rootholes are wet, rare shell fragments, low plasticity, stiff, wet wet wet.			7	T	7		The Long Total Borning Log			
Fill: Coarse gravel baserock SILTY CLAY, very dark brown (10YR 2/2), trace sand, low plasticity, damp - increase in silt at 3' INTERBEDDED SILTY SAND, CLAYEY SAND, AND CLAY: SILTY SAND, dark brown (10YR 3/3), predominantly fine, 15% coarse and to fine gravel, medium dense, damp, becomes coarser at 6 to 6.5°, CLAYEY SAND, olive brown (2.5Y 4/4), predominantly fine sand, trace medium to coarse sand, fines are mostly clay, rare rootholes, very rare shell fragments, very loose, very moist to wet. CLAY, very dark gray (10YR 3/1), trace sand, few rootholes, high plasticity, very stiff, moist SM OH SANDY CLAY, light olive brown (2.5Y 5/4), 20 to 30% fine to medium sand, trace sift, rare to few rootholes are wet, rare shell fragments, low plasticity, stiff, wet		DEPTH (ft.)	S AMPLE No	BLOWS/FOOT	140 ft/]bs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING	
AMW1 5 SM SS OH SANDY CLAY, light olive brown (2.57 5/4), 20 to 30% fine to medium sand, trace silt, rare to few rootholes are wet, rare shell fragments, how plasticity, stiff, wet wet.	ŧ	1 -					Fill: Coarse gravel baserock			
MW1 9 SANDY CLAY, light olive brown (2.5Y 5/4), 20 to 30% fine to medium sand, trace silt, rare to few rootholes are wet, rare shell fragments, low plasticity, stiff, wet		2 -			(CL	salid, low plasticity, damp		·	
SANDY CLAY, light olive brown (2.5Y 5/4), 20 to 30% fine to medium sand, trace silt, rare to few rootholes are wet, rare shell fragments, low plasticity, stiff, wet		1	- 1 MW1				fine, 15% coarse sand to fine gravel, medium dense, damp, becomes coarser at 6 to 6.5', CLAYEY SAND, olive brown (2.5Y 4/4), predominantly fine sand, trace medium to coarse sand, fines are mostly clay, rare rootholes, very rare shell fragments, very loose, very moist to wet. CLAY, very dark gray (10YR 3/1), trace sand, few rootholes high			
SANDY CLAY, light olive brown (2.5Y 5/4), 20 to 30% fine to medium sand, trace silt, rare to few rootholes are wet, rare shell fragments, low plasticity, stiff, wet	- 1 - 1 - 1	2- 3- 4- 5- 6	MW1	10				Y		
- 21 - 4 Vet Wet	-	-	114/1				mie to medium sand, trace silt, rare to few rootholog			
,	21	11		8	CL		wet			



PROJECT NAME: Owens Corning BORING NO. MW-2

DATE DRILLED: 5-23-88

LOGGED BY: SC

EXPLORATORY BORING LOG

		7	T	LAPLORATORY BURING LOG			_
DEPTH (#)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm	
-	1		XXXXX	PAVEMENT SECTION: 8" asphalt cover			
- 2			ан	SANDY CLAY, black, 15 to 25% sand, moderate to high plasticity, faint odor, damp to moist			
3							
- 4	_						
- 6 - 7 - 8	MW2	11		INTERBEDDED GRAVELLY SAND, SANDY CLAY, AND SILTY CLAY: GRAVELLY SAND, brown (10YR 4/3), predominantly medium sand, trace fine sand, trace coarse sand, 20% fine gravel, medium dense, damp; SANDY CLAY, very dark gray (2.5Y N3/), 25 TO 35% fine to coarse sand, few to common rootholes, rare root remains, rare shell fragments, moderate to high plasticity, stiff, very moist, at shoe: grades to dark olive gray (5Y 3/2) with faint product odor; SILTY CLAY, dark gray (5Y 4/1), few rootholes wet, faint			
- 10 - - 11	MW2 - 2	8	SP/OH/QL	odor, low to moderate plasticity, stiff, wet, grades to very dark gray (5Y 3/1) at shoe			
- 12· - 13-						i	
- - 14-							
- 15							
- - 16	MW2 - 3	9			*	j	
- - 17-	,			strong odor in cuttings			
- 18-							
19-							
- 20 - 21	MW2 - 4	8		as above color to dark olive gray (5Y 3/2), becomes sandy, 15 to 20% fine sand BOTTOM OF BOREHOLE = 21.5'			

environmentai PROJECT NUMBER: 1649 G services, inc.

PROJECT NAME: Owens Corning

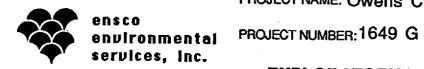
BORING NO. MW-3

DATE DRILLED: 5-24-88

LOGGED BY: SC

EXPLORATORY BORING LOG

	1	_	7				
DEDTU (44)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEYEL	OVA READING	:
- 1 - 2 - 3				Fill: gravelly sand to sandy gravel with minor clay alternating with light brown sand and black sandy clay			
- 5 - 6	MW3	9		SILTY SAND, brown (7.5YR 4/2), predominantly fine, 20% fine gravel, abundant roots, loose, damp			
- 7 - 8 - 9			SM.	SILTY SAND, dark yellowish brown (10YR 4/4), predominantly fine sand, rare roots, loose damp			
- 10 - 11	МWЗ	3	\$\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	SAND vellouish have (10YR 3/3), 20 to 30%			
- 12- - 13-	- 2	-		SAND, yellowish brown (10YR 5/4), predominantly fine sand, trace medium sand, trace silt, very loose, moist			
14-						· · ·	
15	MW3 - 3	10		CLAYEY SAND, brown (10YR 5/3), predominantly fine sand, trace medium sand, locally 25 to 40% clay,rare organic debris, loose, wet	V		
17- 18-		-	SP	SAND, brown (10YR 5/3), predominantly fine sand, trace medium to coarse sand, loose, wet			
20 21	MW3 - 4	16	ан	CLAY, very dark gray (10YR 3/1), trace fine to medium sand,, rare roots, rare rootholes, high plasticity, stiff, moist BOTTOM OF BOREHOLE = 21.5'			



BORING NO. MW-4

DATE DRILLED: 5-24-88

LOGGED BY: SC

EXPLORATORY BORING LOG

		7				
SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPm	
- - -			Fill: Clayey sand with minor gravel, brown, damp			
		СН	CLAY, black (10YR 3/3), trace sand, moderate to high plasticity, damp			
1			pea gravel			
MW4 - 1	14		SILTY SAND, dark brown (10YR 4/3), predominantly fine sand, rare organic debris, medium dense, damp			
			becomes clayey			
MW4 -2	10	SP/ SM/ CL	INTERBEDDED CLAY AND SAND: CLAY, dark grayish brown (2.5Y 4/2) with common orange mottling, very rare rootholes very rare roothairs, trace organic staining, low plasticity, stiff, very moist; SAND, olive brown (2.5Y 4/4), predominantly fine to medium sand, trace silt, loose, damp, becomes wet at 11'; boundry is gradational	∇		
MW4 - 3	6	•	as above clay becomes silty, trace fine gravel, loose to firm, saturated			
MW4 - 4	18	αн	CLAY, very dark brown (10YR 2/2), trace fine to medium sand, rare coarse sand, rare roots, few rootholes, very stiff, moist			
	MW4 - 1 MW4 - 2	MW4 10 -2 10 6 -3 6	MW4 14 CH MW4 18	Fill: Clayey sand with minor gravel, brown, damp CLAY, black (10YR 3/3), trace sand, moderate to high plasticity, damp - pea gravel SILTY SAND, dark brown (10YR 4/3), predominantly fine sand, rare organic debris, medium dense, damp - becomes clayey INTERBEDDED CLAY AND SAND: CLAY, dark grayish brown (2.5Y 4/2) with common orange mottling, very rare rootholes very rare roothairs, trace organic staining, low plasticity, stiff, very moist; SAND, olive brown (2.5Y 4/4), predominantly fine to medium sand, trace silt, loose, damp, becomes wet at 11'; boundry is gradational AW4 AB4 CH CLAY, very dark brown (10YR 2/2), trace fine to medium sand, rare coarse sand, rare roots, few rootheles very stiff maist	Fill: Clayey sand with minor gravel, brown, damp CLAY, black (10YR 3/3), trace sand, moderate to high plasticity, damp - pea gravel SILTY SAND, dark brown (10YR 4/3), predominantly fine sand, rare organic debris, medium dense, damp - becomes clayey INTERBEDDED CLAY AND SAND: CLAY, dark grayish brown (2.5Y 4/2) with common orange mottling, very rare rootholes very rare roothairs, trace organic staining, low plasticity, stiff, very moist; SAND, olive brown (2.5Y 4/4), predominantly fine to medium sand, trace silt, loose, damp, becomes wet at 11'; boundry is gradational MW4 -3 CLAY, very dark brown (10YR 2/2), trace fine to medium sand, rare coarse sand, rare roots, few rootholes, very stiff, moist	Fill: Clayey sand with minor gravel, brown, damp CLAY, black (10YR 3/3), trace sand, moderate to high plasticity, damp - pea gravel SILTY SAND, dark brown (10YR 4/3), predominantly fine sand, rare organic debris, medium dense, damp - becomes clayey INTERBEDDED CLAY AND SAND: CLAY, dark grayish brown (2.5Y 4/2) with common orange mottling, very rare rootholes very rare roothas; trace organic staining, low plasticity, stiff, very moist; SAND, olive brown (2.5Y 4/4), predominantly fine to medium sand, trace silt, loose, damp, becomes wet at 11'; boundry is gradational MW4 6 CLAY, very dark brown (10YR 2/2), trace fine to medium sand, rare coarse sand, rare roots, few rootholes, very stiff, moist



BORING NO. MW-5

DATE DRILLED: 5-24-8

LOGGED BY: SC

EXPLORATORY BORING LOG

DEPTH (ft.)	SAMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM	
- 1 -				Fill: Sandy clay and silty gravelly sand, dark brown, damp			
- 2 - - 3 -			ан	CLAY, black, trace sand, moderate to high plasticity, damp			
- 4 - 5 - 6 - 7 - 8	MW5 - 1	6	SP	SAND, dark brown, (10YR 3/3), predominantly coarse sand, trace fine gravel, loose, damp becomes silty, predominantly fine sand becomes clayey			
- 10 - 11 - 12- - 13-	MW5 - 2	5	SP/CL	INTERBEDDED CLAY AND SAND: CLAY, dark grayish brown (2.5Y 4/2) with common orange mottling, very rare rootholes very rare roothairs, trace organic staining, low plasticity, stiff, very moist; SAND, olive brown (2.5Y 4/4), predominantly fine to medium sand, trace silt, loose, damp, becomes wet at 11'; boundry is gradational			
- 14- - 15- - 16- - 17- - 18- - 19-	MW5 - 3	5	•		∇		
- 19- - 20 - 21	MW 5 - 4	11	αн	CLAY, very dark grayish brown (10YR 3/2), trace fine to medium sand, few to common rootholes mostly wet, stiff, wet BOTTOM OF BOREHOLE = 21.5		· •	



PROJECT NUMBER: 1649 G

BORING NO. MW-6

DATE DRILLED: 5-24-88

LOGGED BY: SC

EXPLORATORY BORING LOG

DEPTH (ft.)	SAMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPm	
	-			Fill: Sandy silt, black, trace fine gravel, damp			
F 1]					-	
2							
- 3				becomes gravelly at 3'		:	
- 4 - 5 - 6	MW6	9	SW- SP	GRAVELLY SAND to SANDY GRAVEL, dark yellowish brown (10YR 3/4), 40 to 60% fine gravel, 40 to 60% fine to coarse sand, loose, damp			
- 7 · - 8 · - 9 ·				CLAYEY SAND, olive brown (2.5Y 4/4), sand is predominantly fine, few roots, rare empty rootholes,trace organic staining, loose, damp			
- 10 - 11 - 12- - 13-	MW6 - 2	17	SP/OJ	INTERBEDDED CLAY AND SAND: CLAY, grayish brown (10YR 5/2), trace sand, common black organic staining, common rootholes, very stiff, damp; SANDS, light yellowish brown (2.5Y 6/4), fine sand, trace silt, common roots, few rootholes, moderate to high plasticity, medium dense, damp			
- 14- - 15- - 16-	MW6 - 3	16		SILTY CLAY, olive gray (5Y 4/2), trace fine to coarse sand, low to moderate plasticity, few roots, few rootholes, stiff, moist to wet sand becomes clive brown, wet	▽		
- 18 -		Ì					
- 19- - 20 _[MW6		СН	CLAY, black (5Y 2.5/2), trace fine to coarse sand, few to common rootholes some wet, few roots, high plasticity, very stiff, moist to wet			
21	- 4	17		BOTTOM OF BOREHOLE = 21.5'			



PROJECT NUMBER: 1649 G

BORING NO. MW-7

DATE DRILLED: 5-24-88

LOGGED BY: SC

EXPLORATORY BORING LOG

	_	7		EXITEDIATOR BORING LOG			
DEPTH (ft.)	SAMPLE No	BLOWS/F00T	UNIFIED SOIL	SOIL DESCRIPTION	W ATER LEYEL	OVA READING Ppm	
-	-	_		PAVEMENT SECTION: 6" asphalt cover	+		
- 1 - 2			αн	CLAY, black, high plasticity, no odor, damp		-	
- 3 - 4 - 5			αL	SANDY CLAY, dark brown (10YR 3/3), common fine sand, abundant silt, low to moderate plasticity, damp clay becomes black (as above)			
- 6 - 7	MW7 - 1	8	SP	SAND, yellowish brown (10YR 5/4), predominantly fine sand, trace silt, clayey at 5 to 5.5 feet with few rootholes and few roots, loose, damp			
8 -							
- 10					-	ĺ	
- 11 - 11	MW7 - 2	7		becomes clayey, wet, transition to			
- 12- - 13-			ан	CLAY, very dark grayish brown (10YR 3/2), slight orange mottling, trace fine sand, trace silt, very rare rootholes, highly plastic, firm to stiff, moist			
- 14- - 15			SP				
16	MW7	16	3	SAND, as above, becomes clayey at 15.5		İ	ł
- 17-	- 3		sw	GRAVELLY SAND, olive brown (2.5Y 4/4), fine to coarse sand, 20 to 30% fine gravel, gravel and sands subangular to angular, medium dense, damp			
- 18- - 19-							
- 20	MW7		ан	SILTY CLAY, very dark grayish brown (2.5Y 3/2), locally sandy, trace organic staining, firm, wet CLAY, black (5Y 2.5/1), rare sand, few rootholes,			
21	- 4	9	а /	high plasticity, stiff, damp BOTTOM OF BOREHOLE = 21.5'			
				BOTTOM OF BONEHOLE = 21.5			

EXPLORATORY BORING LOG

Page 1 of 1



PROJECT NAME: Owens Corning Fiberglas

2001 Marina Blvd. San Leandro, CA BORING NO.

8-WM

DATE DRILLED: 10/18/89

PROJECT NUMBER: 1719G

LOGGED BY:

C.V.

- 1 - 2 3 3						OVA READING PPM
-9 - -10- -11 MW- -12- -13-	W-8-1 W-8-2	11	ML SM CL SM	CLAYEY SILT, dark black gray(5B 4/1), 10-20% silt, stiff, damp SILTY SAND, dark black gray (5B 4/1), 10-15% silt, very fine to fine sand, medium dense, damp SILTY CLAY, dark gray (5Y 4/1), 20-30% silt, low plasticity, firm, damp SILTY SAND, dark gray (5Y 4/1), 10-15% silt, very fine to coarse sand, loose, moist to wet CLAY, black (7.5YR 2/0), trace coarse sand, high plasticity, stiff, damp		
-14- -15- -16 MW- -17- -18- -19- -20-		12 14 (SP)	CH CH	SANDY CLAY, dark green gray (5GY 4/1), 5-10% silt, 20-30% very fine to medium sand, damp to moist CLAY, dark green gray (5GY 4/1), high plasticity, stiff, damp GRAVELLY CLAY, dark green gray (5GY 4/1), 15-20% fine gravel, 10-15% fine sand, 10-15% silt, stiff, wet CLAY, dark green gray (5GY 4/1), trace sand, high plasticity, stiff, moist	Ţ	



EXPLORATORY BORING LOG

Page 1 of 1

PROJECT NAME: Owens Corning Fiberglas

2011 Marina Blvd. San Leandro, CA BORING NO. OCF9

DATE DRILLED: 8/27/90

PROJECT NUMBER: 4751F

LOGGED BY: K.P.

DЕРТН (ft.)	SAMPLE No.	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING ppm
- 1 - 2 - 3 - 3 - 4 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5 - 5			ML	BACKFILL: Pea Gravel SILT, yellowish brown (10YR 5/4), homogenous, >90% silt, medium stiff, dry		
- 6 - 7 - - 8 - - 9 - - 10	OCF 9-1	7	ML	CLAYEY SILT, yellowish brown (10YR 5/4), ~ 20-30% clay, medium plasticity, ~ 10% gravel, fine to medium clasts, angular to subangular, stiff,		2.9
- 12 - - 13 - - 14 - - 15 - - 16	OCF 9-2	12	СН	SILTY CLAY, very dark gray (10YR 3/1), = 10-20% silt, high plasticity, rare mica flakes, very stiff, moist to wet		6.7
- 17 - 18 - 19 - 20 - 21	OCF 9-3	16		as above Bottom of Boring = 21.5 feet	Ţ	7



EXPLORATORY BORING LOG

Page 1 of 1

PROJECT NAME: Owens Corning Fiberglas

2011 Marina Blvd. San Leandro, CA BORING NO. OCF10

DATE DRILLED: 8/27/90

PROJECT NUMBER: 4751F

LOGGED BY: K.P.

DEPTH (ft.)	SAMPLE No.	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVM READING ppm
- 1 - - 2 - - 3 - - 4 -				FILL: Gravel for railroad ties, compacted		
- 6 - 7 8 10 10	OCF 10-1	11	ML	CLAYEY SILT, dark brown (7.5YR 3/4), = 10-20% clay, medium plasticity, stiff, slightly damp		1.1
- 11 - 12 - 13 - 14	OCF 10-2	9	SM	SILTY SAND, yellowish brown (10YR 5/4), fine loose sand, homogenous, loose, dry		4.4
- 15 - 16 - 17 - - 18 - - 19 -	OCF 10-3	18	CL	SILTY CLAY, dark brown (10YR 3/3), ~ 10-20% silt, high plasticity, very stiff, moist	Ī	5.9
- 20 - 21				- color change to very dark gray (10YR 3/1) Bottom of Boring = 21.5 feet		

p 1 of 2

PROJECT NAME: Owens Corning

PROJECT NUMBER: 1649 G

environmental

services, inc.

BORING NO. SB-1

DATE DRILLED: 5-23-88

		CIVICE		EXPLORATORY BORING LOG	ED B\	: SC	
DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/1bs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OV A READING Ppm	
			XXXXX	6" Asphalt cover			
- 1 - - 2 -			α.	SILTY CLAY, black (5YR 2.5/1), trace sand, trace fine gravel, damp			
- 3 - - 4 - - 5 -	0.0		ML	CLAYEY SILT, very dark grayish brown, (10YR 3/2) trace fine to coarse sand, rare rootholes, dampbecomes lighter in color			
- 6 - 7 - - 8 - - 9 -	SB1 - 1	6	SP	SAND, clive brown (2.5Y 4/4), 60% fine sand, 30% medium to coarse sand, 10% fine gravel, trace silt, sand angular to sub-rounded, loose, damp, becomes 95% fine sand at 6-6.5'			
- 10 - - 11	SB1	4	· ·	increase in silt, interbedded lens of coarse sand to fine gravel	∇		
- 12 - - 12- 	- 2		a.	SILTY CLAY, olive gray (5Y 5/2), with slight orange mottling, trace organic staining, moderate plasticity, soft, wet			
- 14- - 15 ₋							
- 16 - 17- - 18-	SB1 -3	9	SP/CL	INTERBEDDED SILTY CLAY, SAND, and SANDY CLAY: SAND, olive brown (2.5Y 4/4) predominantly fine sand, loose, wet; SILTY CLAY, as above, become stiff; SANDY CLAY, olive brown (2.5Y 4/4), 30 to 40% fine sand, stiff, wet			
19							
- 20 - 21	SB1 - 4	9	сн	CLAY, very dark grayish brown (5Y 3/2), trace silt, trace sand, rare root debris, rare rootholes, rootholes wet, very stiff, moist 2' water in hole			

ensco environmental services, inc.

PROJECT NAME: Owens Corning

PROJECT NUMBER: 1649 G

p 2 of 2 BORING NO. SB-1

DATE DRILLED5-23-88

EXPLORATORY BORING LOG LOGGED BY: SC

DEPTH (ft.)	S AMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OV A READING ppm	
- 22 -							
- 23 - -							
-24 -							
2:5				becomes sandy with gravel			
-26 -	SB1 - 5	22		CLAYEY SAND, brown (10YR 4/3), 60% fine to			
-27 - -			sw	coarse sand, 20% fine gravel, angular to sub- rounded, dense, very moist to wet			
-28 - 				rounded, dense, very moist to wet			
-29 -							
- 30			SW	SAND, predominantly medium to coarse, minor fine, trace fine gravel, sub-angular to			
- 31 -	SB1 -6	23	344	sub-rounded, medium dense, wet			
-32 -							
-33 -				BOTTOM OF BOREHOLE = 31.5'	ľ		
-34 -							
-35 -							
-36 -							
-37 - 							
- 38 - -				·			
- 39 -							
- 40 - -				·			
- 41 - -							
- 42 -							



PROJECT NUMBER: 1649 G

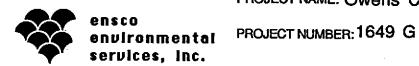
BORING NO. SB-2

DATE DRILLED: 5-25-88

LOGGED BY: SC

EXPLORATORY BORING LOG

			7		_	-	
DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPm	
- 1 -				Fill: gravelly sand, brown			
- 2 -			α	SILTY CLAY, black (5YR 2.5/1), trace sand, trace fine gravel, damp			
5	SB2 - 1	15	8 /	CLAYEY SAND, dark olive gray (5Y 2/2), fine sand, trace coarse sand, fines predominantly clay, rare rootholes, medium dense, moist		1 1 1 1 1 1 1	
- 7 - - 8 - - 9 -				SAND, olive (5Y 4/4), predominantly fine sand, 10% medium sand, 10% coarse sand and fine gravel, subangular, medium dense, damp becomes gravelly at 7'			
- 10 - 11 - 12- - 13-	SB2 -2	17	SP/SC/QL	INTERBEDDED SAND, CLAYEY SAND, and SILTY CLAY: SAND, as above; CLAYEY SAND, as above; SILTY CLAY, olive gray (5Y 4/2) mottled with dark gray (5Y 4/1) trace fine sand, very stiff, moist to wet at 11' fine sands become dark greenish gray (5GY 4/1) with moderate petroleum odor (diesel?)			
- 14- - 15 - 16	SB2 - 3	8		as above, clayey soils are stained dark greenish gray, overall moderate odor, sands are saturated	▽		
- 17- - 18- - 19- - 20- - 21-				BOTTOM OF BOREHOLE = 16.5			

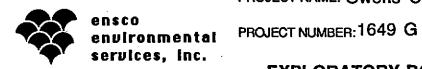


BORING NO. SB-3

DATE DRILLED: 5-25-88

LOGGED BY: SC

					_		
DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING Ppm	
				Fill: gravelly sand, brown			
-	}					ļ	ļ
- 2 - -							
- 3 - 4 -			αн	SILTY CLAY, black (5YR 2.5/1), moderate plasticity, faint odor, damp			
5 -			sw	GRAVELLY SAND, 50% coarse sand, 25% fine to medium sand, 25% fine gravel, sands sub-angular to			
- 6	SB3 - 1	4		angular, loose, damp, increase in fine sand by 6'			
- 7 -			,	CLAYEY SAND, olive brown (2.5Y 4/4), 75% fine			
- 8 -				sand, fines predominantly clay,soft, damp			-
 -9-		·					
- 10 - 10			SP/ SC/ OH	INTERBEDDED SAND, CLAYEY SAND, and CLAY:			
- 11	SB3	3	∕ α+	CLAYEY SAND, as above; SAND, predominantly fine, coarsens downward, moist, grades to: CLAY, black (5Y	∇		
- 12-	- 2			2.5/1) trace fine to coarse sand, few rootholes, moderate plasticity, soft, very moist to wet			
 - 13-				moderate planting, cost, very moist to wet			
- - 14-							
- 15 ₀							
- - 16	SB3 - 3	8	αн	SILTY CLAY, dark olive gray (5Y 3/2) mottled with dark gray (2.5Y 4/0), few rootholes, some are stained orange, moderate plasticity, faint odor, firm, wet			
- 17-				, , , , , , , , , , , , , , , , , , , ,			
- 18-		İ		BOTTOM OF BOREHOLE = 16.5'			
- 19-			Į	·			
 -20-							
 - 21-							
<u> </u>							



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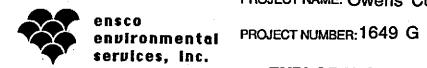
PROJECT NAME: Owens Corning

BORING NO. SB-4

DATE DRILLED: 5-25-8

LOGGED BY: SC

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL	SOIL DESCRIPTION	WATER LEVEL	OVA READING ppm	
				Fill: gravelly sand, brown			
2 -			;	Fill: clay, black, faint odor, trace sand, damp		,	
- 3 -				Fill: sandy gravel, fine to coarse rounded gravel			
- 5 - 6 - 7	SB4 - 1	14	SP	SAND, dark yellowish brown (10YR 3/4), predominantly fine sand, trace medium to coarse sand, medium dense, damp, silty at 5-5.5'		·	
- 8 - - 8 - - 9 - - 10-			SP	INTERBEDDED SAND, SILTY SAND, and SANDY	∇		
- 11 - 12- - 13- - 14-	SB4 - 2	7	SPSAC	CLAY: SAND, medium to coarse sand, loose, wet; SILTY SAND, predominantly fine, dark yellowish brown (10YR 3/4), loose, wet; CLAY, black (5Y 2.5/1), trace fine to coarse sand, trace fine gravel, rare rootholes, moderate to high plasticity, firm, very moist to wet	V		
- 15 - 16	SB4 - 3	5		as above, clay becomes silty, olive brown (2.5Y 4/4) with minor orange staining around rare root remains, firm, saturated			
- 17- - 18-				BOTTOM OF BOREHOLE = 16.5		;	
- 19- - 20-							
- 21-							

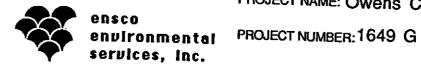


BORING NO. SB-5

DATE DRILLED: 5-25-88

LOGGED BY: SC

DEPTH (ft.)	SAMPLE No	BLOWS/FOOT 140 ft/lbs.	UNIFIED SOIL		W ATER LEVEL	OVA READING Ppm	
 - 1 - 2 -			XXXXX	Fill: gravelly sand, brown			
 - 3 - 			a. ,,,,	SILTY CLAY, black (2.5Y N2/), high plasticity, slight, odor, damp			
- 5 - 6	SB5 - 1	14	SP	SAND, very dark grayish brown (2.5Y 3/2), predominantly fine, trace medium to coarse sand, trace silt, few to common rootholes, medium dense, damp			
- 7 - - 8 -			SW	GRAVELLY SAND, olive brown (2.5Y 4/4), fine to coarse angular sand, 25% fine gravel, medium dense, damp becomes clayey at 7'			
- 10 - 11 - 12- - 13-	SB5 - 2	6	SP/QH	INTERBEDDED SAND and CLAY: SAND, olive brown (5Y 4/4), predominantly medium sand, 10 to 15% fine sand, trace coarse sand, loose, wet; CLAY, dark olive gray (5Y 3/2)trace sand, trace organic staining, few rootholes, moderate to high plasticity, firm, wet, grades to: CLAY, black (5Y 2.5/1), trace sand, few rootholes, firm, moist	▽		
- 14- - 15-							
- 16 -	SB5 - 3	6	_	same as above interbeds of saturated fine sand in 6" lenses, gravelly sand at shoe			
- 18- - 18-				BOTTOM OF BOREHOLE = 16.5'			
- 19- - 20-							
21-							



BORING NO. \$B-6

DATE DRILLED: 5-25-88

EXPLORATORY RORING LOC LOGGED BY: SC

	EXPLORATORY BORING LOG LOGGED BY: SC								
	SAMPLE NO	BLOWS /FOOT	140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER I FUE	OUA DE ADIMO	OV IN READING	
- 1 - 2 - 3 - 4				ML	SANDY SILT, very dark brown (10YR 2/2), 20 to 30% fine to coarse sand, damp color change to dark brown (7.5YR 3/2) fine gravel in cuttings				
- 5 - 6 - 7 - 8	SB6 - 1	6	SV	N SC SP	INTERBEDDED GRAVELLY SAND, SAND, and CLAYEY SAND, GRAVELLY SAND: medium to coarse sand, trace fine sand, 20% fine subangular gravel, loose, damp; CLAYEY SAND, brown (10YR 4/3), 60% fine sand, trace organic debris, loose, damp; SAND, dark yellowish brown (10 YR 4/4), fine, loose, damp				
- 10 - 11 - 12 - 13-	SB6 - 2	9			INTERBEDDED SAND and SANDY CLAY: SAND, as above, become clayey at shoe; SANDY CLAY, dark brown (10YR 3/3), 20 to 30% fine sand, few roots and rootholes,trace black organic staining, trace orange staining, trace organic debris, stiff, very moist		٠		
15 16	SB6 - 3	11			as above clay becomes very dark grayish brown (10YR 3/2), few rootholes are wet	Z			
- 17- - 18- - 19-					BOTTOM OF BOREHOLE = 16.5'				
- 20- - 21-									



PROJECT NUMBER: 1649 G

BORING NO. SB-7

DATE DRILLED: 5-23-88

LOGGED BY: SC

DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lps.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM	·
- 1 -			GW	SANDY GRAVEL, fine to coarse, fine to coarse sand, tar visable in cuttings			
- 2 - - 3 -			αL	SILTY CLAY, very dark gray (2.5Y 3/0) trace coarse sand strong petroleum odor, stiff, moist (with oil?)			
- 4 -							
- 5 - 5			SW	SAND, very dark gray (5Y 3/1), fine to coarse, moderate to strong odor, visable moisture is possibly oil, medium dense, damp to moist			
-6 -7 -	SB7 - 1	12		becomes clayey at 6'			
 - 8 -							,
- 9 -	, ,						
- 10 - 11 - 12- - 13-	SB7 - 2	8	SP/ CL/ SW	INTERBEDDED SAND and SILTY CLAY: SAND, very dark gray (5Y 3/1), fine, moderate petroleum odor, loose, saturated, becomes well graded at shoe with trace fine gravel; SILTY CLAY, very dark gray (5Y 3/1), rare roots, rare rootholes are wet, low to moderate plasticity, firm, wet; transition between sand and clay is transitional over 3 to 6 inches	▽		
14-							
15							
- 16	SB7 - 3	10		as above predominantly silty clay with minor sandy clay, slight to moderate odor, sample yields oil sheen when placed in water			
- 17- 							
- 18- -							
- 19-							
- 20 - - 21	SB7 - 4	14	ан	CLAY, black (5Y 2.5/1) rootholes common, few to common roots, high plasticity, slight odor, stiff, moist to wet			

environmental services, inc.

PROJECT NAME: Owens Corning

PROJECT NUMBER: 1649 G

p 2 of 2

BORING NO. SB-7

DATE DRILLED:5-23-88

EXPLORATORY BORING LOGGED BY: SC

Soil Description Set Dod Sylve of the Characteristic of the Color of	·
22 - 23 - 24 - 24 - 25 25 22 as above color to olive (5Y 4/3), becomes silty, rare coarse sand, few rootholes are wet and stained gray, faint petroleum odor BOTTOM OF BOREHOLE = 26.5' BOTTOM OF BOREHOLE = 26.5'	
as above color to olive (5Y 4/3), becomes silty, rare coarse sand, few rootholes are wet and stained gray, faint petroleum odor BOTTOM OF BOREHOLE = 26.5' BOTTOM OF BOREHOLE = 26.5'	
as above color to olive (5Y 4/3), becomes silty, rare coarse sand, few rootholes are wet and stained gray, faint petroleum odor BOTTOM OF BOREHOLE = 26.5' BOTTOM OF BOREHOLE = 26.5'	
as above color to olive (5Y 4/3), becomes silty, rare coarse sand, few rootholes are wet and stained gray, faint petroleum odor BOTTOM OF BOREHOLE = 26.5' BOTTOM OF BOREHOLE = 31 - 31 - 32 - 33 - 34 - 34 - 34 - 34 - 34 - 34	
SB1 22 rare coarse sand, few rootholes are wet and stained gray, faint petroleum odor BOTTOM OF BOREHOLE = 26.5' BOTTOM OF BOREHOLE = 30- 31- 32- 33- 34-	
22 Fare coarse sand, few rootholes are wet and stained gray, faint petroleum odor -27	i
BOTTOM OF BOREHOLE = 26.5' -293031323334 -	
BOTTOM OF BOREHOLE = 26.5' -293031323334 -	
-29 - -30 - -31 - -32 - -33 - -34 -	1
- 30 - - 31 - - 32 - - 33 - - 34 -	
-31- -32- -33- -34-	
-32 -	
-33 -	
34 -	
 -35-	
35	
	ŀ
- 36 -	
37	
- 38 -	
39-	ı
-40-	
-41-	
42-	
	_



PROJECT NAME: Owens Corning

PROJECT NUMBER: 1649 G

BORING NO. SB-8

DATE DRILLED: 5-23-88

LOGGED BY: SC

EXPLORATORY BORING LOG

		1	T ===	TAI TOTATOTT DOTATE LOG			
DEPTH (ft.)	S AMPLE No	BLOWS/F00T 140 ft/lbs.	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPm	
- 1 - - 1 - - 2 -				Fill: sandy clay, black, slight odor, damp			
3 -				cobbles or debris 3' to 4.5'			
- 5 - 6	SB8 - 1	9		brick in shoe			
- 7 - - 8 -			SP	SANDS, dark grayish brown (2.5Y 4/2), fine sand, slight odor, loose, damp strong odor in cuttings			
- 10 _r - 11	SB8 - 2	5	۵	SANDY CLAY, very dark gray (5Y 3/1), 25 to 35% fine sand, rare roots, low plasticity, visable product, firm,			
- 12- - 13- 			ан	CLAY, black (2.5Y N2/), trace fine to coarse sand, rare roots, high plasticity, firm, damp			
- 14- - 15-	SB8	10	a	SILTY CLAY, dark gray (5Y 4/1), few rootholes,	∇		
- 17- - 18-	- 3			slight to moderate odor, visable oil in rootholes and surrounding area, stiff, moist to wet CLAY, olive brown (2.5Y 4/4) with dark gray (N 4/)			
- 19- - 20r			ан	mottling, few rootholes, rare roots, trace organic debris, oil common in rootholes at 15.5', trace oil in rootholes at 16.5', slight odor, stiff, moist			
21	SB8 - 4	8		as above becomes sandy, saturated in shoe, rootholes wet BOTTOM OF BOREHOLE = 21.5'			

SUPERVISED AND APPROVED BY R.G./C.E.G.

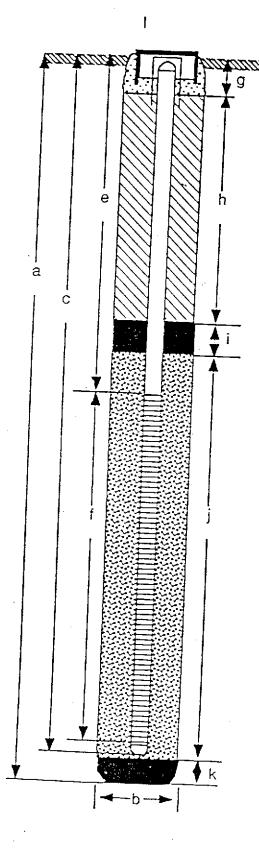
PROJECT NUMBER_1649G	9
PROJECT NAME Owens Corning	
COUNTYAlameda	
WELL PERMIT NO. 88191	

BORING / WE	LL NO	MW-1	
TOP OF CASI	NG ELEV	22.55	
GROUND SUP	RFACE ELEV	/. 	
DATUM	Mean Sea	Level	

EXPLORATORY BORING

a. Total Depth	_21.5 ft.
b. Diameter	8.25 in.
Drilling method Hollow S	tem Auger
WELL CONSTRUCTION	
c. Casing length	
Material Schedule 40 PVC	
d. Diameter	2 in
e. Depth to top perforations	2in. 8 ft.
f. Perforated length	12 ft.
Perforated inter-11	8 ft.
Perforation type machine sl	
Perforation size0.010	
g. Surface seal	in. ft.
Seal Materialn/a	
h. Backfill	
Backfill material Grout	_ <u>5</u> ft.
i. Seal	
Seal Material Bentonite	<u> </u>
j. Gravel pack	14 #
Pack material 2/12 Monterey Type	14ft. Sand
k. Bottom seal	
Seal material n/a	ft.
 Steel Protective Casing With Locking 	 Cover
padlock	
	

environmental services, inc.



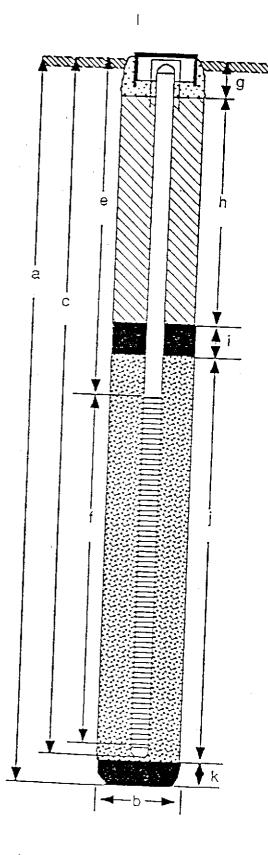
PROJECT NUMBER 164	9G
PROJECT NAME Owens	Corning
COUNTYAlamed	la
WELL PERMIT NO. 8819	1

BORING / WELL NO. MW-2
TOP OF CASING ELEV. 21.34
GROUND SURFACE ELEV. 21.91
DATUM Mean Sea Level

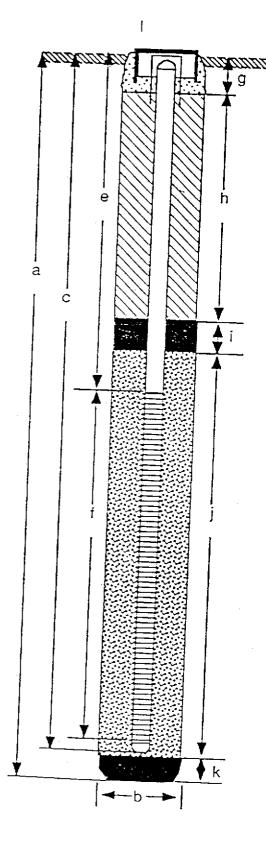
EXPLORATORY BORING

a. Total Depth	_21.5 _{ft}
b. Diameter	21.5 ft. 8.25 in.
Drilling method Hollow Sta	em Auger
WELL CONSTRUCTION	
c. Casing length	20ft.
Material Schedule 40 PVC	
d. Diameter	2 is
e. Depth to top perforations	2in. 8ft.
f. Perforated length	
Perforated interval from 20 to	
Perforation type machine slo	
Perforation size 0.010	
g. Surface seal	in. 1ft.
Seal Material concrete	1(,
h. Backfill	A
Backfill material Grout	<u>4</u> ft.
i. Seal	1 #
Seal Material Bentonite	<u>ft.</u>
i. Gravel nack	14 #
Pack material 2/12 Monterey Type	14ft. Sand
k. Bottom seal	
Seal material n/a	<u>ft.</u>
Steel Protective Casing With Locking (padlock, F-8 christy box	Cover,

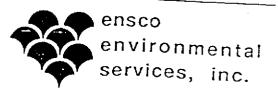
environmental services, inc.



PROJECT NUMBER_1649G	
PROJECT- NAME-Owens Corning	BORING / WELL NO. MW-3
COUNTY Alameda	TOP OF CASING ELEV. 26:79
WELL PERMIT NO. 88191	GROUND SURFACE ELEV
	DATUMMean Sea Level



EXPLORATORY BORING			
a. Total Depth		21.5 _{ft}	
b. Diameter		8.25 in.	
Drilling metho	dHollow		
	NSTRUCTION		
c. Casing length		20 ft.	
Material <u>S</u>	chedule 40 PVC		
d. Diameter		2 in.	
e. Depth to top per	forations	10 ft.	
 Perforated length 	. ר	12ft.	
Perforated interv	ral from 20 to	<u>8</u> ft.	
Perforation type	machine		
Perforation size	0.0	010 in.	
g. Surface seal		ft.	
· Seal Material		n/a	
h. Backfill		6ft.	
Backfill material_	Grout		
i Seal			
Seal Material	Bentonite		
j. Gravel pack		13ft.	
Pack material	2/12 Monterey T		
k. Bottom seal		ft.	
Seal material	n/a		
 Steel Protective (padlock 	Casing With Locki	ng Cover,	



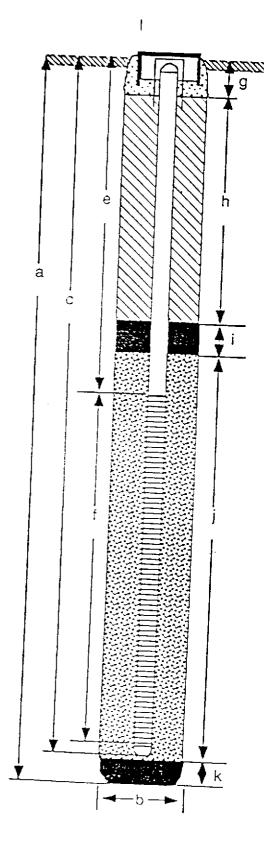
PROJECT	NUMBER_1649G	· ·
PROJECT	NAME Owens Corning	
COUNTY	Alameda	
Will, Per	MIT NO. 88191	

BORING / \	WELL NON	1W-4
TOP OF CA	ASING ELEV	26.09
GROUND S	SURFACE ELEV	/
DATUM	Mean Sea	Level

EXPLORATORY BORING

a. Total Depth	:	_21.5 ft.
b. Diameter		8.25 in.
Drilling method	Hollow S	tem Auger
WELL CONST		
c. Casing length		
MaterialSched	ule 40 PVC	 't.
d. Diameter	-	2 in
e. Depth to top perforati	ions	
f. Perforated length		it.
Perforated interval fro	ım 20 to	
Perforation type		
Perforation size		
g. Surface seal		<u>'</u> in. ft.
' Seal Material	n/a	
h. Backfill		
Backfill material	Grout	<u>5</u> ft.
i. Seal		1 ft.
Seal Material	Bentonite	IL.
j. Gravel pack		14 4
Pack material 2/12	Monterey Type	
k. Bottom seal		
	n/a	<u></u> ft
Steel Protective Casing	g With Locking	Cover
padlock		00161,
	nsco	

environmental services, inc.

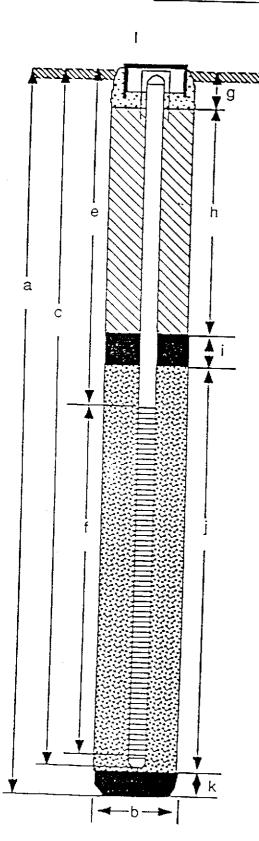


PROJECT NU	MBER 1649G	_
PROJECT NA	ME Owens Corning	
COUNTY	Alameda	
WELL PERMIT	NO 88191	

BORING / WELL NO	MW-5
TOP OF CASING ELEV.	25.40
GROUND SURFACE EL	EV
DATUMMean S	ea Level

а	1. Total Depth	-	21.	5	
	Diameter			. <u>. </u>	_ft.
•		Mour Ci			_in.
	Drilling method Ho	ilow St	em At	ıge	<u>r</u>
	WELL CONSTRUCT	NO			
c	c. Casing length		_ 20		ft.
	Material Schedule 40 F	<u>'V</u> C			-
d	d. Diameter		2	2	in.
е	e. Depth to top perforations		7	7.5	_
f.	Perforated length			2.5	_
	Perforated interval from 20	to	7.5	ft.	
	Perforation type made	chine s			
	Perforation size	0.010)	— ir	1
g.	. Surface seal			 ft.	-
	Seal Material	n/	a	_	
h.	. Backfill		4.5	—— ft	
	Backfill material Grou	ut _		'\.	
i.	Seal		1	~ ft.	
	Seal Material Benton	nite –		_'''	
j.	Gravel pack		14.5		
	Pack material 2/12 Monter	ey Typ	e Sano	_11. d	
k.	Bottom seal	<u></u>		_	
	Seal material n/a	_		_ft.	
l.	Steel Protective Casing With I	Locking	. Cove	r	
	padlock		, 5546	<u>· , </u>	

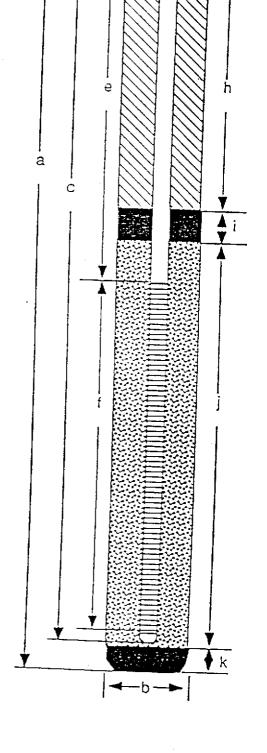


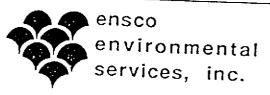


PROJECT NUM	MBER 1649G	Ŭ
PROJECT NAM	ME Owens Corning	
COUNTY	Alameda	
MICH OCOLUE	00404	

BORING / WELL NO. MW-6	
TOP OF CASING ELEY. 24.85	
GROUND SURFACE ELEV	
DATUM Mean Sea Level	

а	. Total Depth			21.5	ft.
b.	. Diameter			8.25	in.
	Drilling method	Но	llow St	em Auge	_
	WELL CO	USTRUCT	NO		
С	. Casing length		-	20	ft.
	MaterialSc	hedule 40 P	VC		_'**
d.	. Diameter			2	in.
e.	Depth to top perf	orations		8	ft.
f.	Perforated length			12	_ft.
	Perforated interva	al from 20	to_	8 ft.	
	Perforation type_				
	Perforation size_				٦.
g.	Surface seal		_	ft.	-
•	Seal Material		n/a	1	
h.	Backfill			5 ft.	
	Backfill material_	Grou	rt		
i.	Seal			1 _{ft.}	
	Seal Material	Bentor	iite		
j. (Gravel pack			14 ft.	
	Pack material	2/12 Montere	∍у Туре	Sand	
k.	Bottom seal			ft.	
	Seal material			·	
1.	Steel Protective C	asing With L	ocking	Cover,	
_					





PROJECT NUMBER 1649G	B
PROJECT NAME Owens Con	
COUNTY Alameda	
WELL PERMIT NO. 88191	

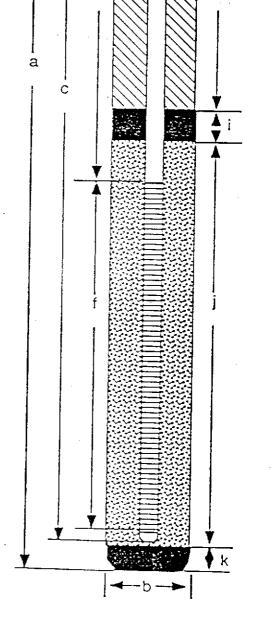
BORING / WELL NO. MW-7

TOP OF CASING ELEV. 25.02

GROUND SURFACE ELEV. 25.97

DATUM Mean Sea Level

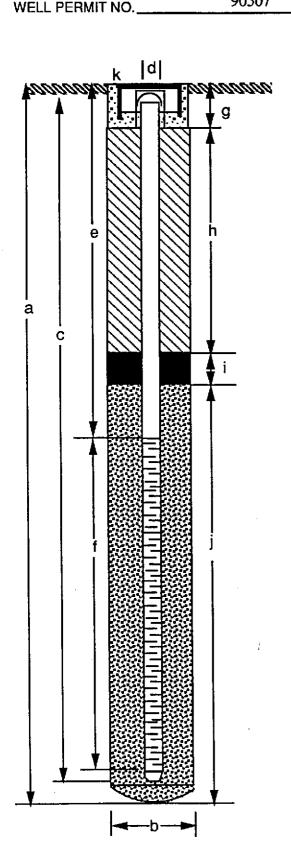
a. Total Depth		
b. Diameter	8.25 in	1.
Drilling method Hollow	Stem Auger	
WELL CONSTRUCTION	<u>1</u>	
c. Casing length	20ft	
Material Schedule 40 PVC		
d. Diameter	2 ir	- 1.
e. Depth to top perforations	8ft	
f. Perforated length	12_ft	
Perforated interval from 20 to	<u>8</u> ft.	
Perforation type machine	slot	
Perforation size 0.0	010 in.	
g. Surface seal	1ft_	
. Seal Material concr	ete	
h. Backfill	_ 4 ft.	
Backfill material Grout		
i. Seal	1ft.	
Seal Material Bentonite		
j. Gravel pack	14 ft.	
Pack material 2/12 Monterey T		
k. Bottom seal	ft.	
Seal material n/a		
I. Steel Protective Casing With Lock	king Cover,	
padlock, F-8 christy box		





PROJECT NUMBER	4751F	
PROJECT NAME	Owens Corning	
COUNTY	Alameda	
WELL DEDIVITAGE	90507	

BORING / WELL NO	OCF-9
TOP OF CASING ELEV	
GROUND SURFACE ELEV	/
DATUM	- - -



EXPLORATORY BORING

а.	Total depth		21.5	- ft.
	Diameter		8	. in.
	Drilling method _	Hollow Stem Auger	r	•
	WELL CO	NSTRUCTION		
C.	Casing length	·	24.5	_ ft

c. Casing length 24.5 ft.

Material Sch. 40 PVC

d. Diameter 2 in.
e. Depth to top perforations 14 ft.

f. Perforated length 7.5 ft.

Perforated interval from 14 to 21.5 ft.

Perforation type Machine Slotted

Seal material 2'-15' Bentonite, 1.5-0' Cement

h. Backfill 10 ft.

Backfill material Neat Cement Grout

Seal 1 ft.

Seal material Bentonite

j. Gravel pack 8.5 ft.

Pack material Clean 2/12 Sand

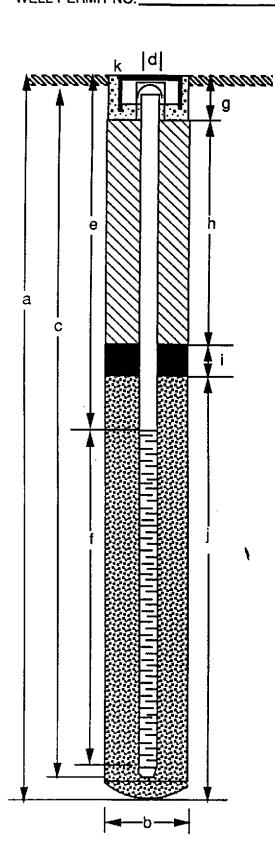
k. 5 foot standpipe set into bentonite and cement. 2 ft. below grade, 3 ft. above grade



h. Backfill

PROJECT NUMBER	4751F	
PROJECT NAME	Owens Corning	
COUNTY	Alameda	
WELL PERMIT NO	90507	

BORING / WELL NO	OCF-10
TOP OF CASING ELEV	
GROUND SURFACE ELEV.	
DATUM	



EXPLORATORY BORING

a.	Total depth	_	21.5	- ft.
b.	Diameter	_	8	. in.
	Drilling method	Hollow Stem Auge	<u>r</u>	
	WELL CO	NSTRUCTION		
c.	Casing length		24.5	ft.

	Material Sch. 40 PVC			
đ.	Diameter		 2	in.
e.	Depth to top perforation	ons	 14	ft.

f.	Perforated length		_	7.5	_ f
	Perforated interval from	14	to	21.5	_ _ f
	Perforation type	Machine	e Slotte	d	
	Perforation size	0.0	20		- 1i

g.	Surface seal	t
	Seal material	2'-1.5' Bentonite, 1.5-0' Cement

	Backfill material	Neat Cement Gro	ut	
i.	Seal	_	1	_ _ ft.
	Seal material	Bentonite		

10 ft.

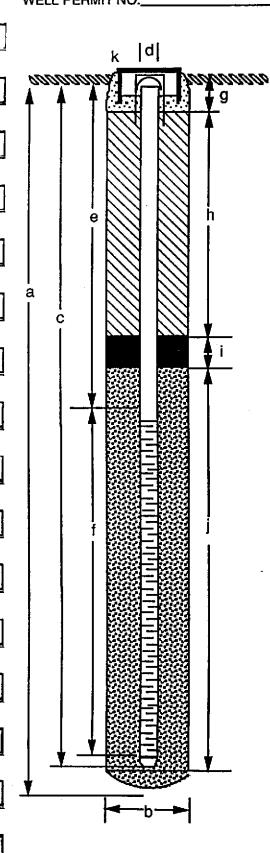
j. Gravel pack 8.5 ft.

Pack material Clean 2/12 Sand

5 foot standpipe set into bentonite and cement, 2 ft. below grade, 3 ft. above grade



PROJECT NUMBE	R1719G	BORING / WELL NO.
PROJECT NAME	Owens Corning Fiberglas	TOP OF CASING ELI
COUNTY	Alameda	GROUND SURFACE
WELL DEDMIT NO	*	патим Мез



BORING / WELL NO	MAA-9
TOP OF CASING ELEV	22.40
GROUND SURFACE ELEV	22.70
DATUM Mean Sea	Level

			
a. Total Depth		20	ft.
b. Diameter	-	8	in.
Drilling method	hollow stem aug	ger	
WELL CO	<u>NSTRUCTIO</u>	<u>N</u>	:
c. Casing length		20	ft.
Material	schedule 40 PVC		<u>_</u>
d. Diameter		2	in.
e. Depth to top perfor	rations	10	ft.
f. Perforated length		10	ft.
Perforated interval	from 10 to 2	<u>20</u> ft	
Perforation type	machine slotted		_
Perforation size			in.
g. Surface seal		1	_ft.
Seal Material	concrete		_
h. Backfill		6	_ft.
Backfill material	neat cement	<u> </u>	_
i. Seal	_	1	_ft.
Seal Material			_
j. Gravel pack		12	ft.
Pack material	#2/12 Sand		_
k. <u>G-5 traffic box</u> cover, t	c, steel locking padlock		



EXPLORATORY BORING LOG



PROJECT NAME: Owens Corning Fiberglas

2001 Marina Blvd. San Leandro, CA BORING NO. MW-8

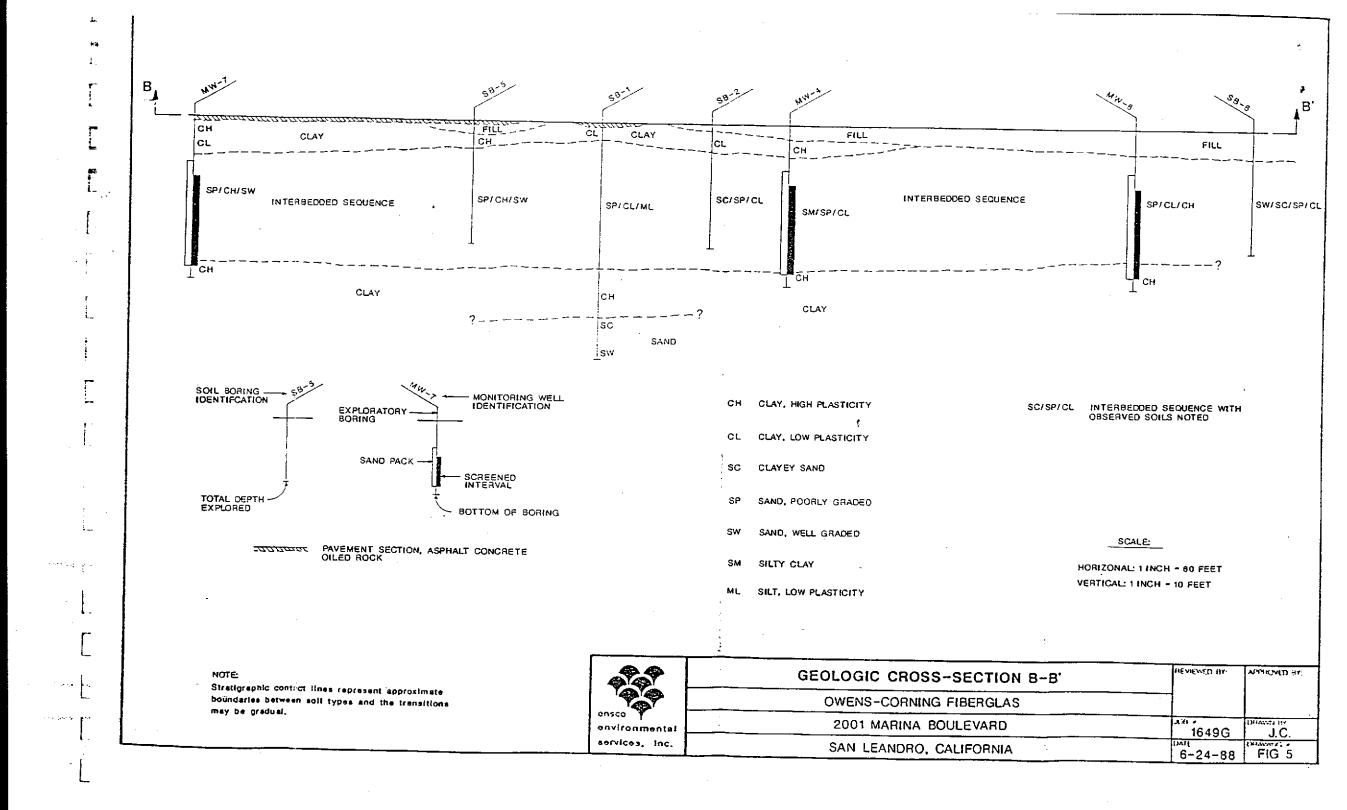
DATE DRILLED: 10/18/89

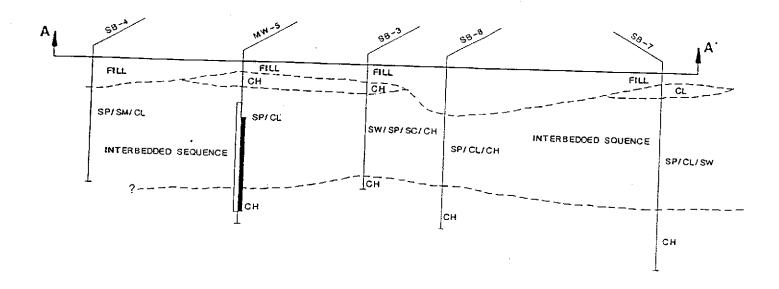
PROJECT NUMBER: 1719G

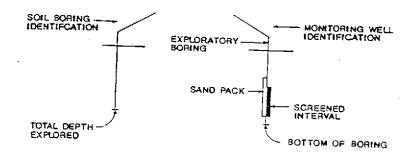
LOGGED BY:

C.V.

				Se description		_
ДЕРТН (А.)	SAMPLE No	BLOWS/FOOT	UNIFIED SOIL CLASSIFICATION	SOIL DESCRIPTION	WATER LEVEL	OVA READING PPM
- 1 - 2 - 3	MW-8-1	11	ML SM CL SM	CLAYEY SILT, dark black gray(5B 4/1), 10-20% silt, stiff, damp SILTY SAND, dark black gray (5B 4/1), 10-15% silt, very fine to fine sand, medium dense, damp SILTY CLAY, dark gray (5Y 4/1), 20-30% silt, low plasticity, firm, damp SILTY SAND, dark gray (5Y 4/1), 10-15% silt, very fine to coarse sand, loose, moist to wet CLAY, black (7.5YR 2/0), trace coarse sand, high plasticity, stiff, damp		
-14- -15- -16- -17- -18- -19- -20-	MW-8-3	12 14 (SP)	CH CH	SANDY CLAY, dark green gray (5GY 4/1), 5-10% silt, 20-30% very fine to medium sand, damp to moist CLAY, dark green gray (5GY 4/1), high plasticity, stiff, damp GRAVELLY CLAY, dark green gray (5GY 4/1), 15-20% fine gravel, 10-15% fine sand, 10-15% silt, stiff, wet CLAY, dark green gray (5GY 4/1), trace sand, high plasticity, stiff, moist abundant rootholes, 20-30% fine to medium sand, damp	Ţ	
-21 -		(SP)		Botom of boring = 21.5 feet		







CH CLAY, HIGH PLASTICITY

CLAY, LOW PLASTICITY

CLAYEY SAND

SAND, POORLY GRADED

SAND, WELL GRADED

SILTY CLAY

SILT, LOW PLASTICITY

SC/SP/CL INTERBEDDED SEQUENCE WITH OBSERVED SOILS NOTED

SCALE:

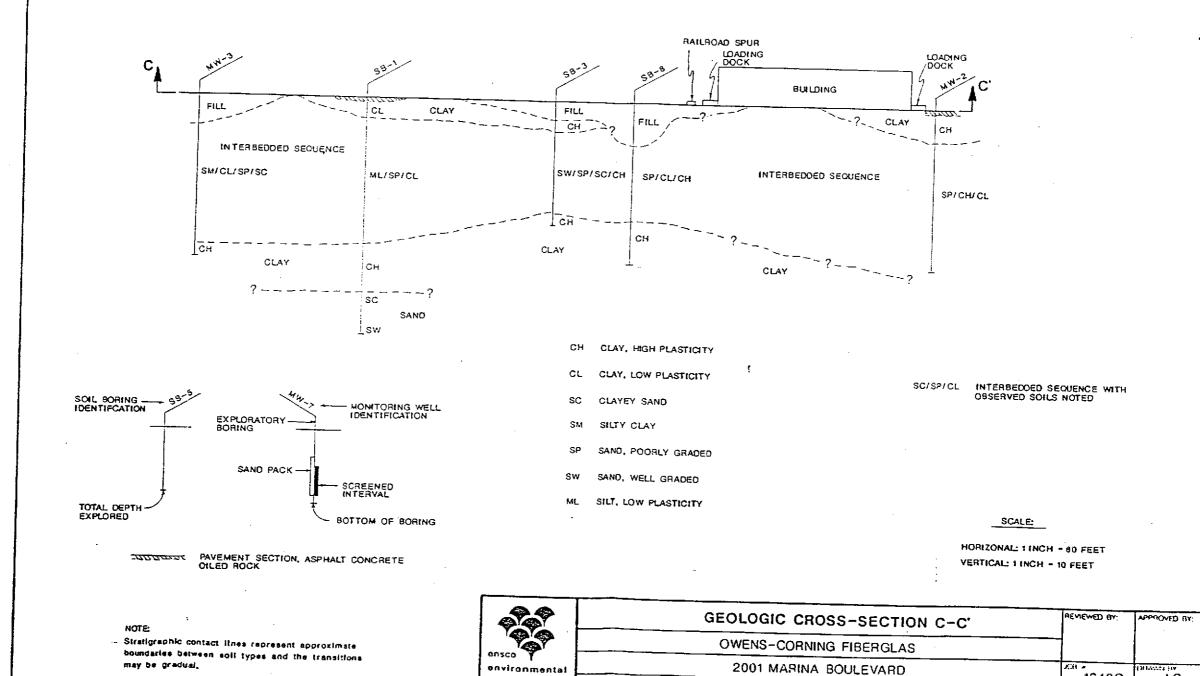
HORIZONAL: 1 INCH - 80 FEET VERTICAL: 1 INCH - 10 FEET

NOTE

Stratigraphic contact lines represent approximate boundaries between soil types and the transitions may be gradual.



GEOLOGIC CROSS-SECTION A-A'	REVIEWED BY:	APPROVED BY:
OWENS-CORNING FIBERGLAS		
2001 MARINA BOULEVARD	JOB #:	DRAWN BY:
SAN LEANDRO, CALIFORNIA	1649G	J.C.



SAN LEANDRO, CALIFORNIA

services, inc.

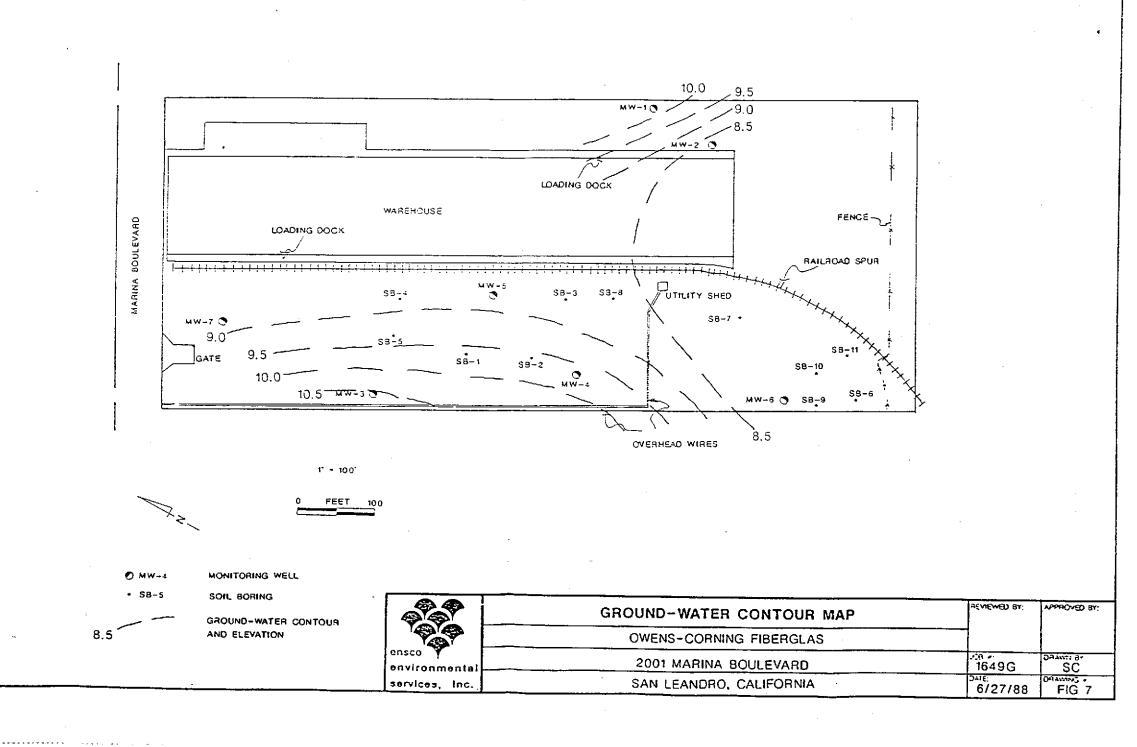
1649G

6-24-88

J.C.

FIG 6

turu engi



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