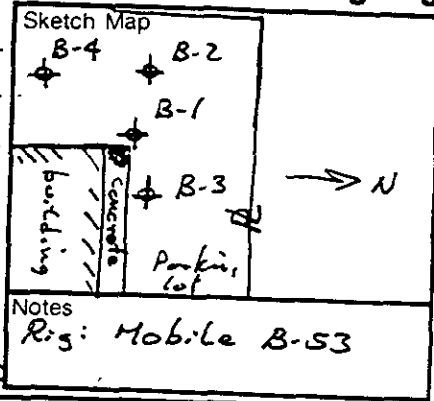


Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Ca. W.O. Number 1157
 Well Number B-1 Total Depth 21 1/2' Diameter 10"
 Surface Elevation _____ Water Level: Initial _____ 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company B+FD Drilling Drilling Method HSA
 Driller Breece Franks Log By JRP Date Drilled 11/19/90



Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				0920 start
1				surface: 2" asphaltic concrete
2				dk. brown-black, moist, gravelly silty silt to coarse sand ^{Fill}
3				black, moist, silty medium grained sand
4				<u>Alluvium - Collovidium</u>
5				DEG (2EF) = ND (L50)
6		10/5	B-1-1	0953 hrs HS = φ
7				brown, moist, soft sandy clay
8				becomes dk. brown, silty
9				
10				
11		2/2	B-1-2	1000 hrs HS = φ
12				dk. brown, moist, loose silt
13				
14				tan, moist, gravelly
15				<u>Deeply weathered Sandstone</u>
16		13/16	B-1-3	1016 hrs HS = φ
17				tan, moist, gravelly, sandy clay
18				difficult drilling
19				tan, moist, soft, silty clay
20				DEG = ND (L50)
21		5/10	B-1-4	1045 hrs HS = φ
22				tan, moist, silty medium-grained sand - sandy silt
				Stopped @ 21 1/2'
				No free water encountered during drilling

HS: headspace

Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Ca. W.O. Number 1157
 Well Number B-2 Total Depth 21 1/2' Diameter 10"
 Surface Elevation _____ Water Level: Initial _____ 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company B&F Drilling Drilling Method HSA
 Driller Breece Franks Log By JRP Date Drilled 11/19/90

Sketch Map See B-1 log

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				1235 start
1				surface: 2" asphaltic concrete Fill
2				Tan, moist, gravelly, silty fine to coarse-grained sand
3				Black, damp, loose, medium to coarse-grained sand
4				
5				Tan, moist, soft, gravelly, sandy clay and
6			2/3	B-2-1 1250 hrs HS = ϕ black medium to
7			3	coarse-grained sand
8				<u>Alluvium - Colloviom</u>
9				
10				brown, moist-wet, medium-grained sand
11			3/5	B-2-2 1300 hrs HS = 0.4 ppm
12			7	tan, moist, slt. gravelly clayey silt
13				<u>Deeply Weathered Sandstone</u>
14				
15				tan with orange mottling, moist silty, sandy clay
16			7/10	B-2-3 1317 hrs HS = ϕ
17			12	
18				tan with orange mottling clayey silt-silty clay
19				
20				
21			6/9	B-2-4 1325 hrs HS = 0.8 ppm
22			12	tan, damp, clayey medium-grained sand
				Stopped @ 21 1/2'
				No free water encountered during drilling

HS: headspace

Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Ca. W.O. Number 1157
 Well Number B-3 Total Depth 2 1/2' Diameter 10"
 Surface Elevation _____ Water Level: Initial _____ 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing Dia. _____ Length _____ Type _____
 Drilling Company B&F Drilling Drilling Method HSA
 Driller Breece Franks Log By JRP Date Drilled 11/19/90

Sketch Map

 Notes
1425-1500 rain

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				1400 start
1				Surface: 2" asphaltic concrete FILL
2				Tan, moist, gravelly silty to coarse-grained sand
3				Tan, moist, soft gravelly, sandy clay
4				becomes orange-brown
5				
6			3	B-3-1 1440 hrs HS = 0.1 ppm
7				Tan, moist, soft, silty clay
8				
9				
10				
11			3	B-3-2 1452 hrs HS = 0.2 ppm
12				brown, moist, soft silty clay
13				
14				<u>Alluvium - Colloviuum</u>
15				
16			3	B-3-3 1505 hrs HS = 0 ppm
17				Tan, moist, gravelly, sandy clay
18				<u>Deeply Weathered Sandstone</u>
19				
20				Tan, moist, silty clay
21			3	B-3-4 1522 hrs HS = 0.3 ppm
22				becomes clayey, medium-grained sand
				stopped @ 2 1/2'
				No free water encountered during drilling

HS = headspace

Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Cal W.O. Number 1157
 Well Number B-4 Total Depth 21 1/2' Diameter 7"
 Surface Elevation _____ Water Level Initial _____ 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company BTF Drilling Drilling Method HSA
 Driller Breece Franks Log By JRP Date Drilled 11/20/90

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
				0815 start Mobile B-53
1				Surface: 2" asphaltic concrete tan, damp, gravelly fine to coarse-grained sand ^{FILL}
2				tan, damp-moist, sandy clay
3				brown, moist, soft silt <u>Alluvium - Colloviann</u>
4				
5				
6			4/3 4	B-4-1 0825 hrs HS = ϕ brown, moist soft silt & tan, moist gravelly clayey silt
7				
8				
9				
10				
11			3/7 9	B-4-2 0832 HS = 0.6 ppm tan, moist, gravelly clayey silt
12				<u>Deeply weathered Sandstone</u>
13				
14				
15				
16			5/9 9	B-4-3 0837 HS = 0.6 ppm tan, moist, soft, silty clay
17				tan, moist silty clay - clayey silt
18				
19				
20				
21			6/12 18	B-4-4 0847 HS = 0.2 ppm tan, moist, dense clayey sand
22				stopped @ 21 1/2' No free water encountered during drilling

HS = headspace

Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Ca. W.O. Number 1157
 Well Number MW-1 Total Depth _____ Diameter _____
 Surface Elevation _____ Water Level: Initial _____ 24-hrs. _____
 Screen: Dia. _____ Length _____ Slot Size _____
 Casing: Dia. _____ Length _____ Type _____
 Drilling Company _____ Drilling Method _____
 Driller _____ Log By JRP Date Drilled 1/16/91

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)
28				
29				
30			7/12	MW-1-6 1108 hrs HS = ϕ
31			29	tan, moist, clayey fine sand
32				
33				
34				
35			3/16	MW-1-7 1132 hrs HS = ϕ
36			15	tan moist clay
37				tan, moist fine-grained sand
38				
39				tan, moist-damp, fine-grained sandy clay
40			5/12	MW-1-8 1204 hrs HS = ϕ
41			16	tan, moist, silt
42				
43				
44				tan, moist, sandy clay
45			8/16	MW-1-9 1385 hrs HS = 0.1 ppmb
			25	
				stopped @ 46 1/2'

Environmental Resources Management

Drilling Log

Project Firestone Owner _____
 Location Oakland, Ca. W.O. Number 1157
 Well Number MW-1 Total Depth 40' Diameter 10"
 Surface Elevation _____ Water Level: Initial 21.94 24-hrs. _____
 Screen: Dia. 4" Length 5' Slot Size 0.01"
 Casing: Dia. 4" Length 35' Type PVC
 Drilling Company B+FD Drilling Drilling Method HSA
 Driller Bob Log By JRP Date Drilled 1/16/91

Sketch Map

Notes

Depth (Feet)	Graphic Log	Well Construction	Sample Number	Description/Soil Classification (Color, Texture, Structures)	8010 = Volatile Halo Contents
				Rig: Mobile B-53	
				start 0930 / stop 1345	
1				Surface: 2" asphaltic concrete	
2					<u>Fill</u>
3				tan, moist to damp, silt	TOG = ND (5520 E & F)
4				becomes moist, clayey	TOG = ND (5520 E)
5					Org Pb = ND
6				MW-1-1 0956 hrs HS = ϕ	Kerene TPHg = ND
7				tan, moist, silty clay & dk. brown, moist silty sand + wood fragments destruction @ 6%	TPHd = 6.0
8					8010 = ND
9				<u>Alluvium - Colluvium</u>	
10					TOG = 58 ppm (5520 E & F)
11				MW-1-2 1015 hrs HS = 0.2 ppm	TOG = 56 ppm (6520 E)
12				dk. brown, damp, sandy silt	Org Pb = ND
13					TPHg = ND
14				lt. brown, damp-moist, gravelly medium sandy silt	8010 = ND
15				<u>Deeply weathered Sandstone</u>	BTEX = ND
16				MW-1-3 1020 hrs HS = 0.1 ppm	
17				tan mottled orange, damp, gravelly, clayey fine to coarse sand	TOG = ND (5520 E & F)
18					TOG = ND (5520 E)
19					Kerene TPHg, TPHg = ND
20					8010 = ND
21				MW-1-4 1037 hrs HS = ϕ	TOG = ND (5520 E & F)
22				tan, moist, silty, clayey, media - stringer sand	TOG = ND (5520 E)
23					Org Pb = ND
24					Kerene, TPHg, TPHg = ND
25					8010 = ND
26				MW-1-5 1050 hrs HS = ϕ	BTEX = ND
				tan, moist, silty, sandy clay	

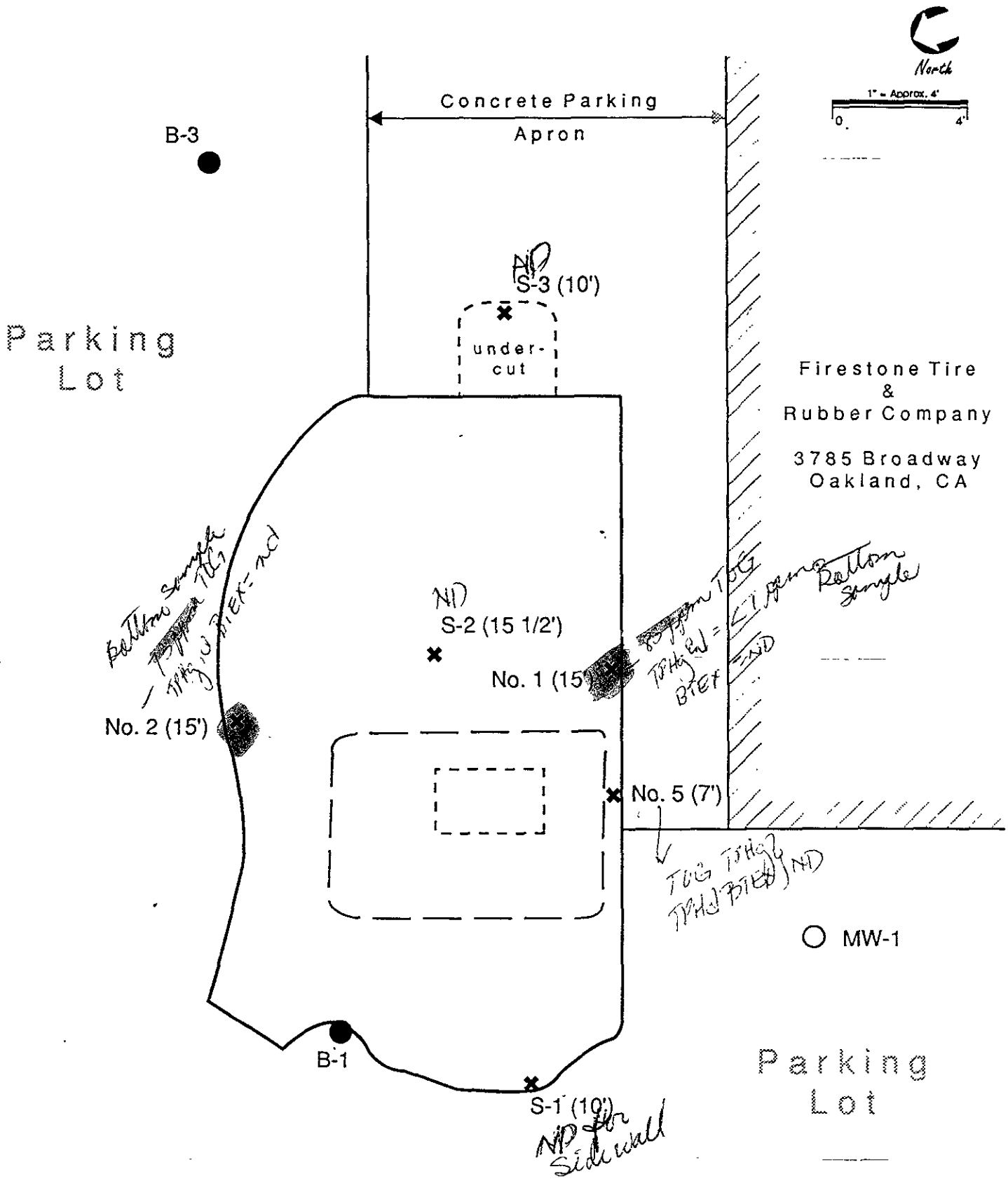


Figure 2-1
Soil Excavation & Sample Locations
Firestone, Oakland, CA

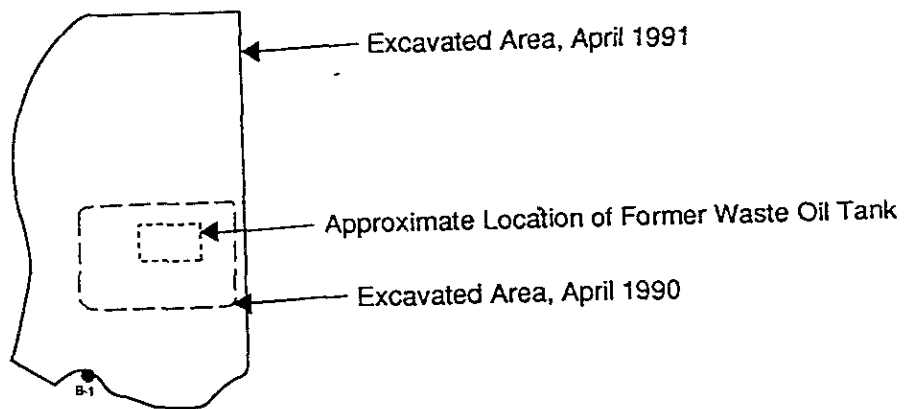
B-2

ERM-West, Inc. 491
1157/JPT/4.8.91

from Report of May, 1991

B-4

LEGEND



Soil Sample Location, depth

S-1 (10')

Sample Collected by ERM-West, Inc.

No. 1 (15')

Sample Collected by Dillard Trucking, Inc.



B-1

Location of Boring, B-1



MW-1

Location of Monitoring Well, MW-1

Table 2-1
Hydrocarbons in Soil Samples

Total Petroleum
Hydrocarbons (mg/kg)

Sample No.	Depth (feet)	Total Petroleum Hydrocarbons (mg/kg)		Oil & Grease (mg/kg)	Benzene (ug/l)	Toluene (ug/l)	Ethyl Benzenes (ug/l)	Xylenes (ug/l)
		Gasoline	Diesel					
No. 1	15	<0.5	<1	83	>5	<5	<20	<5
No. 2	15	<0.5	<1	73	>5	>5	<20	<5
No. 5	7	<0.5	<1	<50	>5	>5	<20	<5
S-1	10	<0.05	<1	<50	NT	NT	NT	NT
S-2	15 1/2	<0.05	7.4	<50	NT	NT	NT	NT
S-3	10	<0.05	<1	<50	NT	NT	NT	NT

Note: NT = Not Tested

4/29/91