

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



RAFAT A. SHAHID, DIRECTOR

DEPARTMENT OF ENVIRONMENTAL HEALTH
1131 Harbor Bay Parkway
Alameda, CA 94502-6577
(510)567-6700

REMEDIAL ACTION COMPLETION CERTIFICATION

StID 1124 - 955 Kennedy Street, Oakland, CA

April 17, 1996

Mr. John Shelton
Kilpatrick's Bakery
955 Kennedy Street
Oakland, CA 94606

Mr. Campbell Taggart
Environmental Offices
P.O. Box 660217
Dallas, TX 75266-0217

Dear Messrs. Shelton and Taggart:

This letter confirms the completion of site investigation and remedial action for the seven former underground storage tanks (5- 10,000 diesel, 1-10,000 gasoline, and 1-350 gallon waste oil tanks) removed from the above site on October 11, 1989, December 12, 1990, and January 28, 1991. Enclosed is the Case Closure Summary for the referenced site for your records.

Based upon the available information, including the current land use, and with the provision that the information provided to this agency was accurate and representative of site conditions, no further action related to the underground tank release is required.

This notice is issued pursuant to a regulation contained in Title 23, Division 3, Chapter 16, Section 2721(e) of the California Code of Regulations. Please contact Ms. Eva Chu at (510) 567-6700 if you have any questions regarding this matter.

Very truly yours,

Jun Makishima, Interim Director

cc: Chief, Division of Environmental Protection
Kevin Graves, RWQCB
Mike Harper, SWRCB (with attachment)
Kyle Flory, Philip, 5901 Christe Ave, #501, Emeryville
94608 (w/o)
files (kilptrks.3)

CASE CLOSURE SUMMARY
Leaking Underground Fuel Storage Tank Program

I. AGENCY INFORMATION

Date: February 8, 1996

Agency name: Alameda County-HazMat Address: 1131 Harbor Bay Pkwy
City/State/Zip: Alameda, CA 94502 Phone: (510) 567-6700
Responsible staff person: Eva Chu Title: Hazardous Materials Spec.

II. CASE INFORMATION

Site facility name: Kilpatrick's Bakery
Site facility address: 955 Kennedy Street, Oakland 94606
RB LUSTIS Case No: N/A Local Case No./LOP Case No.: 1124
URF filing date: 5/15/95 SWEEPS No: N/A

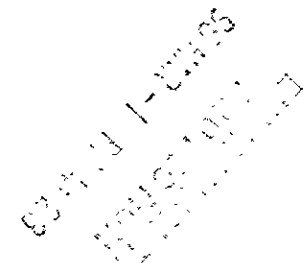
Responsible Parties: Addresses: Phone Numbers:

- 1. Kilpatrick's Bakery 955 Kennedy Street
Attn. John Shelton Oakland, CA 94606
- 2. Campbell Taggart P.O. Box 660217
Environmental Offices Dallas, TX 75266-0217

<u>Tank No:</u>	<u>Size in gal.:</u>	<u>Contents:</u>	<u>Closed in-place or removed?:</u>	<u>Date:</u>
1	10,000	Diesel	Removed	10/11/89
2	10,000	Diesel	Remvoed	10/11/89
3	10,000	Diesel	Removed	10/11/89
4.	10,000	Diesel	Removed	10/11/89
5.	10,000	Gasoline	Removed	12/12/90
6.	10,000	Diesel	Removed	12/12/90
7.	350	Waste Oil	Removed	1/28/91

III. RELEASE AND SITE CHARACTERIZATION INFORMATION

Cause and type of release: Unknown
Site characterization complete? YES
Date approved by oversight agency: 4/18/95
Monitoring Wells installed? Yes Number: 5
Proper screened interval? Yes, 19-34', in a confined aquifer (MW-4)
Highest GW depth below ground surface: 7.88' Lowest depth: 13.49'
Flow direction: West
Most sensitive current use: Inner Harbor of Oakland
Are drinking water wells affected? No Aquifer name: Unknown
Is surface water affected? Unknown Nearest affected SW name: Unknown
Off-site beneficial use impacts (addresses/locations): Unknown



Report(s) on file? **YES** Where is report(s) filed? **Alameda County**
1131 Harbor Bay Pkwy
Alameda, CA 94502

Treatment and Disposal of Affected Material:

<u>Material</u>	<u>Amount</u> <u>(include units)</u>	<u>Action (Treatment</u> <u>or Disposal w/destination)</u>	<u>Date</u>
Tank	4 USTs	H & H Shipping	10/11/89
	3 USTs	Erickson	12/12/90, 1/28/91
Piping			
Rinseate	200 gallon	H & H Shipping	10/12/89
Soil	384 tons	Liquid Waste Mgmt, McKittrick	10/24/89
	36 cy	McKittrick Waste Disposal	7/26/91
	226 cy	Vasco Rd L.F., Livermore	3/6 and 20/91

Maximum Documented Contaminant Concentrations - - Before and After Cleanup

<u>Contaminant</u>	<u>Soil (ppm)</u>		<u>Water (ppb)</u>	
	<u>Before</u>	<u>After</u>	<u>Before</u>	<u>After</u>
TPH (Gas)	1.5	1.5	54	ND
TPH (Diesel)	560	560	460	ND
Benzene	ND	ND	ND	ND
Toluene	ND	.006	.35	ND
Ethylbenzene	.006	.006	ND	ND
Xylenes	.017	.017	ND	ND
Oil & Grease	2,700		710	ND
Heavy metals				
Other	cis-1,2,DCE¹		33	61
	vinyl chloride¹		1.1	ND
	TCE¹		7.5	16

NOTE: 1. From well MW-4

Comments (Depth of Remediation, etc.):

See Section VII, Additional Comments, etc...

IV. CLOSURE

Does completed corrective action protect existing beneficial uses per the Regional Board Basin Plan? **YES**
 Does completed corrective action protect potential beneficial uses per the Regional Board Basin Plan? **YES**
 Does corrective action protect public health for current land use? **YES**
 Site management requirements: **None**
 Should corrective action be reviewed if land use changes? **YES**

Monitoring wells Decommissioned: **Yes, only one**
Number Decommissioned: 1 Number Retained: 5
List enforcement actions taken: **None**
List enforcement actions rescinded: **NA**

V. LOCAL AGENCY REPRESENTATIVE DATA

Name: **Eva Chu** Title: **Haz Mat Specialist**
Signature: *[Handwritten Signature]* Date: **2/14/96**

Reviewed by

Name: **Madhulla Logan** Title: **Haz Mat Specialist**
Signature: *[Handwritten Signature]* Date: **2-8-96**

Name: **Tom Peacock** Title: **Supervising HM Specialist**
Signature: *[Handwritten Signature]* Date: **2-8-96**

VI. RWQCB NOTIFICATION

Date Submitted to RB: **2/15/96** RB Response: *[Handwritten: Approved]*

RWQCB Staff Name: **Kevin Graves** Title: **AWRCE**
Signature: *[Handwritten Signature]* Date: **2/23/96**

VII. ADDITIONAL COMMENTS, DATA, ETC.

On October 11, 1989 four 10K diesel USTs (#363, 364, 365, and 366) were removed from the facility's western boundary. Impacted soils were overexcavated. Soil samples collected from the bottom and sidewalls verified the effectiveness of the overexcavation. However, a grab groundwater sample detected 49,000 ppb TPH. No BTEX was detected. (See Fig 1.)

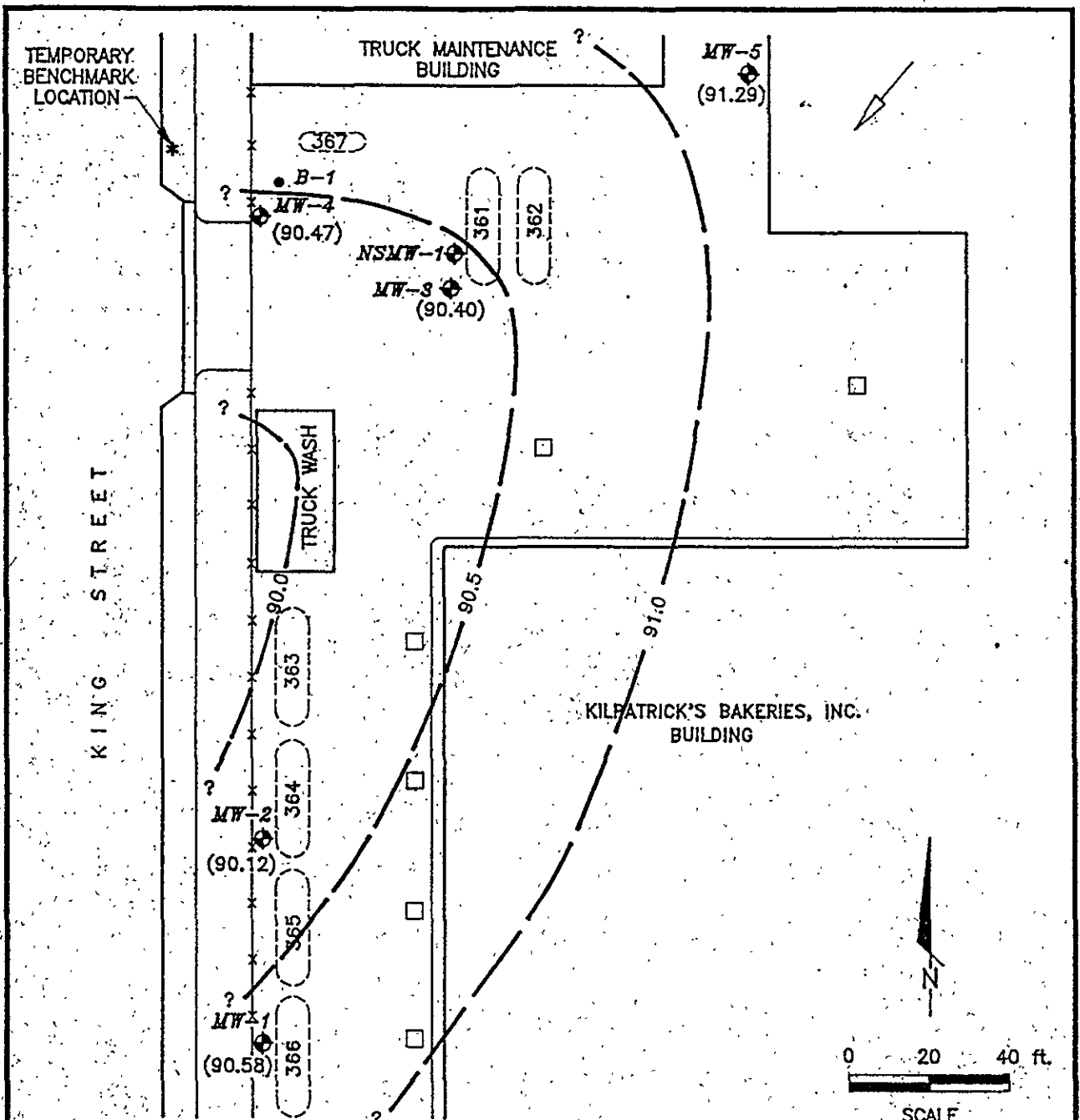
On December 12, 1990 a 10K diesel (#362) and a 10K gasoline UST (#361) were removed from south of the maintenance building. Up to 320 ppm TPH-D, and low to ND levels of TPH-G, and BTEX were detected. Overexcavation removed the impacted soils. Groundwater in the pit was purged and a trench dug an additional 6' to collect a grab groundwater sample. After purging three times, a grab groundwater sample was collected. Analytical results exhibited ND for TPH-G and TPH-D. BTEX concentrations did not exceed 2.6 ppb. Contaminated backfill material beneath the fuel island and product line were also excavated. Soil samples collected in native soil did not exhibit detectable levels of petroleum hydrocarbons. A new 10K gallon double walled fiberglass, steel clad diesel UST was installed in this excavation, and is currently in use. (See Fig 1 and 2, Table 1 and 2.)

On January 28, 1991 a 350 gallon waste oil UST located southwest of the truck maintenance building was removed. (See Fig 2.) Approximately 25 cy of visibly impacted soils were overexcavated. A soil sample collected at 8' bgs beneath the UST did not detect TPH, TOG, PCBs, or semi-volatile compounds.

Five monitoring wells were installed in August 1992. First water was encountered at 18 to 26' bgs, under confined conditions. (See boring log.) Groundwater stabilized at approximately 10' bgs. Soil samples from 10' bgs exhibited up to 560 and 83 ppm TPH-D in boring MW-1 and MW-2, respectively. However, at 15' bgs TPH-D was not detected. The vertical extent of soil contamination appears to be limited to 10-15' depths.

Groundwater has been sampled on a quarterly basis since September 1992 (11 sampling events). A maximum of 54 ppb TPH-G, 460 ppb TPH-D, 710 ppb TPH-MO, .35 ppb toluene have been detected in the downgradient wells. The last two quarters have not detected TPH-G, TPH-D, TPH-MO, or BTEX. Well MW-4, closest to the former waste oil tank has also detected cis-1,2, DCE, vinyl chloride, and TCE in maximum concentrations of 61, 1.2, and 16 ppb, respectively. It appears these contaminants may be from an offsite source, as MW-5, the upgradient well, has detected 65, and 39 ppb cis-1,2 DCE and TCE, respectively. (See Table 2.)

A Tier 1 Risk Assessment was prepared and demonstrated that concentrations of chlorinated hydrocarbons detected in groundwater posed no human health risk greater than 5.3×10^{-6} . Additionally, the USEPA's suggested no-adverse-response level (SNARL) for DCE is 70 ug/L, which is above any DCE concentrations detected in MW-4 or MW-5. As residual Cl-HC's do not pose a human health or environmental health risk, continued groundwater monitoring is not warranted. (See Table 3.)



EXPLANATION

- MW-1 APPROXIMATE GROUNDWATER MONITORING WELL LOCATION AND NUMBER
- B-1 APPROXIMATE SOIL BORING LOCATION AND NUMBER
- 366 FORMER UNDERGROUND TANK LOCATION AND NUMBER
- APPROXIMATE GROUNDWATER FLOW DIRECTION
- CATCH BASIN
- FENCE
- (90.58) WATER-LEVEL ELEVATION IN FEET ABOVE MEAN SEA LEVEL MEASURED ON 8/31/92
- 90.50- GROUNDWATER ELEVATION CONTOURS. CONTOUR INTERVAL= 0.5'



GROUNDWATER ELEVATION CONTOUR MAP
 Kilpatrick's Bakeries, Inc.
 955 Kennedy Street
 Oakland, California

Reviewed By: *L. Pal*

Date: 1/4/93

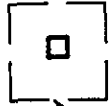
Figure 1

Project No. CTI-106	
Drawn By PPK	Date 12/22/92
Drawing No. A0641202	

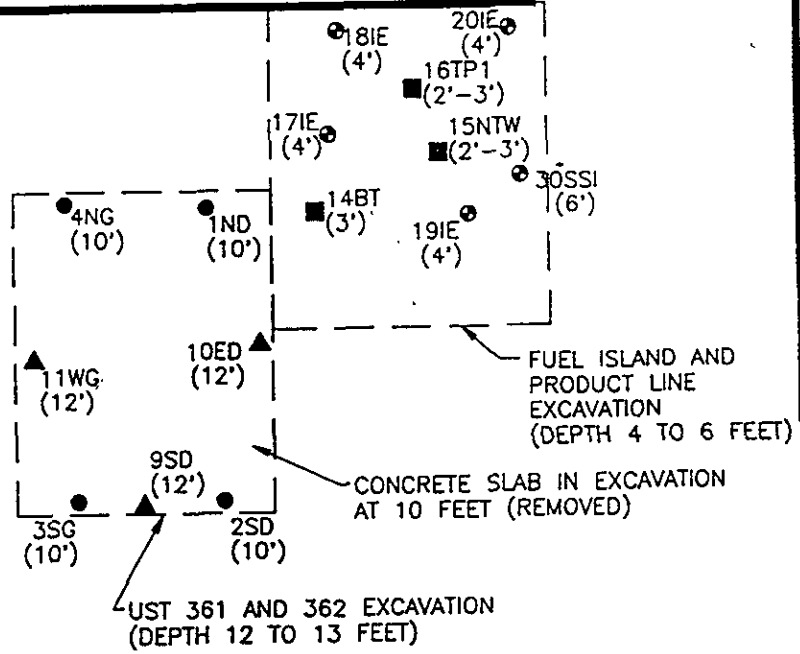
RRP
 PROJECT MANAGER 6/7/91
 RLR
 DOCUMENT MANAGER 5/2/91
 BIN
 CHECKED BY 6/7/91
 PFS
 DRAWN BY 6/7/91
 N
 REV. DATE 6/6/91

TRUCK MAINTENANCE BUILDING

KILPATRICK'S BAKERIES, INC., BUILDING



WOT1 (8')
 WASTE OIL TANK EXCAVATION (DEPTH 8 FEET)

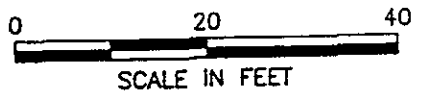


TRUCK WASH

KILPATRICK'S BAKERIES, INC., BUILDING

EXPLANATION

- 1ND (10') APPROXIMATE SOIL SAMPLE LOCATION AND NUMBER WITH DEPTH (COLLECTED 12/12/90)
 - ▲ 11WG (12') APPROXIMATE SOIL SAMPLE LOCATION AND NUMBER WITH DEPTH (COLLECTED 12/14/90)
 - 15NTW (4') APPROXIMATE SOIL SAMPLE LOCATION AND NUMBER WITH DEPTH (COLLECTED 12/28/90)
 - 30SSI (6') APPROXIMATE SOIL SAMPLE LOCATION AND NUMBER WITH DEPTH (COLLECTED 1/5/91)
 - WOT1 (8') APPROXIMATE SOIL SAMPLE LOCATION AND NUMBER WITH DEPTH (COLLECTED 1/28/91)
- NOTE: All sample numbers have the prefix "OAK-".



John Mathes & Associates, Inc.

TANK EXCAVATION SOIL SAMPLE LOCATIONS

KILPATRICK'S BAKERIES, INC.
 OAKLAND, CALIFORNIA
 121382/5810

FIGURE 2

Table 1

SOIL SAMPLE ANALYTICAL RESULTS
UST 361 and 362 CLOSURE

KILPATRICK'S BAKERIES, INC.
OAKLAND, CALIFORNIA

Sample Area, Date, and Number	Location and Depth of Sample (Feet)	Total Oil and Grease	Concentration (mg/kg)					
			Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd
<u>USTs 361 and 362 Excavation</u>								
<u>December 12, 1990</u>								
OAK-1ND	North Wall Diesel UST (10)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-2SD	South Wall Diesel UST (10)	NA	ND(0.005)	ND(0.005)	0.006	0.017	1.5	320
OAK-3SG	South Wall Gas UST (10)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	NA
OAK-4NG	North Wall Gas UST (10)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	NA
<u>December 14, 1990</u>								
OAK-9SD	South Wall Diesel UST (12)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-10ED	East Wall Diesel UST (12)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-11WG	West Wall Gas UST (12)	NA	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
<u>Pipelines and Fuel Island Excavation</u>								
<u>December 28, 1990</u>								
OAK-14BT	Product Line Trench/ Proposed Island Location (3)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	8.9
OAK-15NTW	North Trench Wall (2-3)	1,300	0.02	ND(0.005)	0.007	0.01	ND(1.0)	71
OAK-16TP1	Test Pit 1 (2-3)	2,700	0.15	0.01	0.54	0.66	15	40

Table 1, Continued

SOIL SAMPLE ANALYTICAL RESULTS
UST 361 and 362 CLOSUREKILPATRICK'S BAKERIES, INC.
OAKLAND, CALIFORNIA

Sample Area, Date, and Number	Location and Depth of Sample (Feet)	Concentration (mg/kg)						
		Total Oil and Grease	Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd
<u>January 5, 1991</u>								
OAK-17IE	Southwest Bottom (4)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-18IE	Northwest Bottom (4)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-19IE	Southeast Bottom (4)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-20IE	Northeast Bottom (4)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
OAK-30SSI	Storm Sewer Invert (6)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)
<u>UST 367 Excavation</u>								
<u>January 28, 1991</u>								
OAK-WOT1	Excavation Bottom (8)	ND(50)	ND(0.005)	ND(0.005)	ND(0.005)	ND(0.005)	ND(1.0)	ND(5.0)

Notes: 1. Depths in feet below ground surface. 2. Sample OAK-WOT1 was also analyzed for polychlorinated biphenyls, creosote, semivolatile organic compounds and volatile organic compounds. These chemical constituents were not detected above the quantifiable limits of detection.

mg/kg Milligrams per kilogram.

NA Not analyzed.

ND Not detected above detection limit indicated in parentheses.

TPHd Total petroleum hydrocarbons as diesel.

TPHg Total petroleum hydrocarbons as gasoline.

Table 2
 WATER SAMPLE ANALYTICAL RESULTS
 UST 361 and 362 CLOSURE
 KILPATRICK'S BAKERIES, INC.
 OAKLAND, CALIFORNIA

Sample Date and Number	Sample Location	Concentration (mg/L)					
		Benzene	Toluene	Ethylbenzene	Total Xylenes	TPHg	TPHd
<u>December 16, 1990</u>							
TP-W1*	Tank Vault Wastewater	0.04	0.17	0.087	0.47	2.2	NA
TP-W1**	Tank Vault Wastewater	0.031	0.34	0.20	1.2	NA	NA
<u>December 19, 1990</u>							
OAK-GW2	Groundwater Excavation Trench	ND(0.0005)	0.0007	0.0026	0.0023	ND(0.05)	ND(0.05)

Notes: Sample TP-W1 was also analyzed for TCLP metals, these analytical results are presented in Appendix C.

mg/L Milligrams per liter.

NA Not Analyzed

ND Not detected above detection limit in parentheses.

TPHd Total petroleum hydrocarbons as diesel

TPHg Total petroleum hydrocarbons as gasoline.

* Analyzed by Mobile Chemical using USEPA Method 602.

** Analyzed by Sequoia Analytical using USEPA Method 624 for volatile organic compounds (VOCs); only benzene, toluene, ethylbenzene, and total xylenes (BTEX) compounds detected.

**Table 2
GROUNDWATER ANALYTICAL DATA**

Kilpatrick's Bakeries, Inc.
955 Kennedy Street, Oakland, California

Monitoring Well No.	Date Sampled	Sample No.	TPH	TPH	TPH	Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Total Xylenes (ug/l)	cis-1,2-DCE (ug/l)	Vinyl Chloride (ug/l)	TCE (ug/l)	Carbon Disulfide (ug/l)	Chloroform (ug/l)	Carbon Tetra-chloride (ug/l)	TDS (mg/l)	PNA (ug/l)
			Gasoline (ug/l)	Diesel (ug/l)	Motor Oil (ug/l)												
Analytical Method:			8015m	8015m	8015m	602	602	602	602	624	624	624	624	624	624	160.1	8270
MW-1	9/18/92	WS-3-BAK	ND < 50	ND < 50	ND < 50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	3/24/93	WS-10-BAK	NA	78	ND < 50	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	3/24/93	WS-10-BAK (REP)	NA	71	ND < 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/93	WS-17-BAK	NA	130	ND < 50	ND < 0.30	0.35	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/93	WS-22-BAK	NA	460	ND < 1,000	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/93	MW01-101493	NA	160	ND < 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/93	MW01-101493 (REP)	NA	280	ND < 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/23/93	MW01-112393	NA	340	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	2/16/94	MW01-021694	NA	160	170	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/94	MW01-051994	NA	ND < 50	470	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/94	MW01-082394	NA	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
12/6/94	MW01-120694	NA	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA	
MW-2	9/18/92	WS-4-BAK	ND < 50	ND < 50	77	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	11/4/92	WS-8-BAK	ND < 50	ND < 50	ND < 50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	3/24/93	WS-11-BAK	NA	ND < 50	ND < 50	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/93	WS-16-BAK	NA	ND < 50	ND < 50	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/93	WS-21-BAK	NA	720	ND < 1,000	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	10/14/93	MW02-101493	NA	ND < 50	ND < 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	11/23/93	MW02-112393	NA	ND < 50	ND < 100	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	2/16/94	MW02-021694	NA	ND < 50	480	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/94	MW02-051994	NA	ND < 50	710	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/94	MW02-082394	NA	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
12/6/94	MW02-120694	NA	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA	
MW-3	9/17/92	WS-1-BAK	ND < 50	ND < 50	ND < 50	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	3/24/93	WS-9-BAK	ND < 50	ND < 50	52	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	3/24/93	WS-9-BAK (REP)	NA	ND < 50	ND < 50	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/93	WS-15-BAK	ND < 50	ND < 50	ND < 50	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/93	WS-23-BAK	ND < 50	ND < 50	ND < 1,000	ND < 0.50	ND < 0.50	ND < 0.50	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	11/23/93	MW03-112393	ND < 50	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	2/16/94	MW03-021694	ND < 50	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	5/19/94	MW03-051994	ND < 50	ND < 50	290	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
	8/23/94	MW03-082394	ND < 50	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA
12/6/94	MW03-120694	ND < 50	ND < 50	ND < 100	ND < 0.30	ND < 0.30	ND < 0.30	ND < 0.50	NA	NA	NA	NA	NA	NA	NA	NA	

Table 2
GROUNDWATER ANALYTICAL DATA (continued)

Kilpatrick's Bakeries, Inc.
955 Kennedy Street, Oakland, California

Monitoring Well No.	Date Sampled	Sample No.	TPH			Benzene (ug/l)	Toluene (ug/l)	Ethyl-benzene (ug/l)	Total Xylenes (ug/l)	cis-1,2 DCE (ug/l)	Vinyl Chloride (ug/l)	TCE (ug/l)	Carbon Disulfide (ug/l)	Chloroform (ug/l)	Carbon Tetra-chloride (ug/l)	TDS (mg/l)	PNA (ug/l)
			Gasoline (ug/l)	Diesel (ug/l)	Motor Oil (ug/l)												
		Analytical Method:	8015m	8015m	8015m	602	602	602	602	624	624	624	624	624	624	160.1	8270
MW-4	9/18/92	WS-5-BAK	54	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	33	1.1	7.6	ND<1.0	ND<1.0	ND<1.0	NA	NA
	11/4/92	WS-7-BAK	ND<50	ND<50	58	ND<0.50	ND<0.50	ND<0.50	ND<0.50	58	1.1	11	ND<1.0	ND<1.0	ND<1.0	NA	NA
	3/24/93	WS-14-BAK	ND<50	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.50	58	ND<1.0	13	ND<1.0	ND<1.0	ND<1.0	NA	ND<2.0
	5/19/93	WS-20-BAK	ND<50	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.50	47	ND<1.0	12	ND<1.0	ND<1.0	ND<1.0	NA	ND<2.0
	8/23/93	WS-26-BAK	ND<50	100	ND<1,000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	59	ND<10	11	ND<1.0	ND<1.0	ND<1.0	NA	ND<10
	10/14/93	MW04-101493	NA	ND<50	ND<100	NA	NA	NA	NA	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	10/14/93	DW04-101493 (d)	NA	ND<50	ND<100	NA	NA	NA	NA	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	11/23/93	MW04-112393	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	58	ND<10	14	ND<1.0	ND<1.0	ND<1.0	NA	ND<10
	2/16/94	MW04-021694	ND<50	ND<50	120	ND<0.30	ND<0.30	ND<0.30	ND<0.50	56	1.2	14	ND<1.0	ND<1.0	ND<1.0	NA	ND<10
	5/19/94	MW04-051994	ND<50	ND<50	690	ND<0.30	ND<0.30	ND<0.30	ND<0.50	59	ND<10	15	ND<5.0	ND<5.0	ND<5.0	NA	ND<10
	8/23/94	MW04-082394	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	58	ND<10	14	ND<5.0	ND<5.0	ND<5.0	NA	ND<10
	12/6/94	MW04-120694	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	61	ND<10	18	ND<5.0	ND<5.0	ND<5.0	NA	NA
MW-5	9/17/92	WS-2-BAK	ND<50	ND<50	ND<50	ND<0.50	ND<0.50	ND<0.50	ND<0.50	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	11/4/92	WS-6-BAK	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	540	NA
	3/24/93	WS-12-BAK	ND<50	ND<50	ND<50	0.39	0.39	ND<0.30	0.56	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	3/24/93	WS-13-BAK (d)	ND<50	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.50	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	5/19/93	WS-18-BAK	51	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.50	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	5/19/93	WS-19-BAK (d)	ND<50	ND<50	ND<50	ND<0.30	ND<0.30	ND<0.30	ND<0.50	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	8/23/93	WS-24-BAK	ND<50	80	ND<1,000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	63	ND<10	36	ND<1.0	ND<1.0	ND<1.0	NA	NA
	8/23/93	WS-25-BAK (d)	ND<50	100	ND<1,000	ND<0.50	ND<0.50	ND<0.50	ND<0.50	65	ND<10	39	ND<1.0	ND<1.0	ND<1.0	NA	NA
	10/14/93	MW05-101493	NA	ND<50	ND<100	NA	NA	NA	NA	NA	NA	NA	ND<1.0	ND<1.0	ND<1.0	NA	NA
	11/23/93	MW05-112393	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	54	ND<10	33	4.4	1.3	1.5	NA	NA
	11/23/93	DW01-112393 (d)	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	52	ND<10	33	6.4	1.1	1.0	NA	NA
	2/16/94	MW05-021694	ND<50	ND<50	410	ND<0.30	ND<0.30	ND<0.30	ND<0.50	50	ND<2.0	31	ND<1.0	1.3	1.6	NA	NA
	2/16/94	DW01-021694 (d)	ND<50	ND<50	270	ND<0.30	ND<0.30	ND<0.30	ND<0.50	50	ND<2.0	32	ND<1.0	1.3	1.3	NA	NA
	5/19/94	MW05-051994	ND<50	ND<50	1,800	ND<0.30	ND<0.30	ND<0.30	ND<0.50	59	ND<10	37	ND<5.0	ND<5.0	ND<5.0	NA	NA
	5/19/94	DW01-051994 (d)	ND<50	ND<50	700	ND<0.30	ND<0.30	ND<0.30	ND<0.50	60	ND<10	39	ND<5.0	ND<5.0	ND<5.0	NA	NA
	8/23/94	MW05-082394	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	56	ND<10	36	ND<5.0	ND<5.0	ND<5.0	NA	NA
	8/23/94	DW01-082394 (d)	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	48	ND<10	29	ND<5.0	ND<5.0	ND<5.0	NA	NA
	12/6/94	MW05-120694	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	53	ND<10	34	ND<5.0	ND<5.0	ND<5.0	NA	NA
	12/6/94	DW01-120694 (d)	ND<50	ND<50	ND<100	ND<0.30	ND<0.30	ND<0.30	ND<0.50	54	ND<10	35	ND<5.0	ND<5.0	ND<5.0	NA	NA

see offsite source

Table 3
SUMMARY - HEALTH BASED RISK ASSESSMENT
Values

Kilpatrick's Bakeries, Inc.
 955 Kennedy Street, Oakland, California

Contaminant	Chemical Concentration (mg/L)	Oral Cancer Slope Factor (per mg/kg/day)	Inhalation Cancer Slope Factor (per mg/kg/day)	Oral Reference Dose (per mg/kg/day)	Inhalation Reference Dose (per mg/kg/day)	Lifetime Excess Cancer Risk (adult)	Lifetime Excess Cancer Risk (worker)	Noncancer Hazard Quotient (adult)	Noncancer Hazard Quotient (worker)
DCE	0.065			1.00E-02	1.00E-02			1.95E-01	7.58E-02
TCE	0.039	1.10E-02	6.00E-03	6.00E-03	6.00E-03	5.30E-06	1.66E-06	1.95E-01	7.58E-02
					TOTAL	6.30E-06	1.66E-06	3.90E-01	1.52E-01

DCE cis-1,2-Dichloroethene
 kg Kilogram
 L Liter
 mg Milligram
 TCE Trichloroethene



CONTRACTOR
ENVIRONMENTAL, INC.

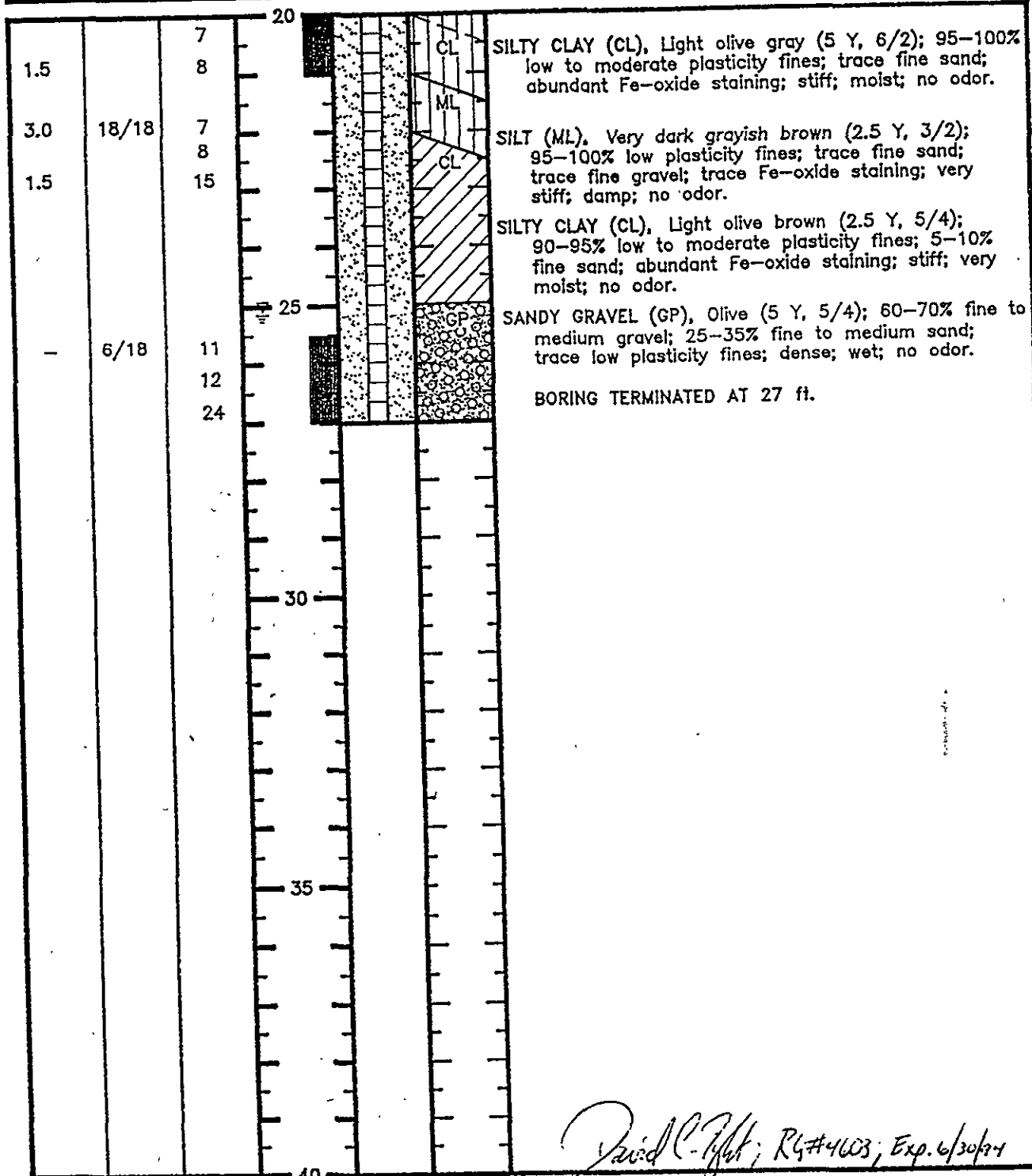
Project Number: CTI-106
Kilpatrick's Bakeries
955 Kennedy Street, Oakland, CA
Drawing No.: A1041206

BORING LOG

MONITORING WELL No.: MW-3
TOP OF CASING ELEV.: 99.62 ft.
TOTAL BORING DEPTH: 27.00 ft.
BY: K. Rahman DATE: 8/26/92

Page: 2 of 2

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
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David C. Miller; RL#4603; Exp. 6/30/94

Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well-head was surveyed to site datum.



ENVIRONMENTAL AGENCY

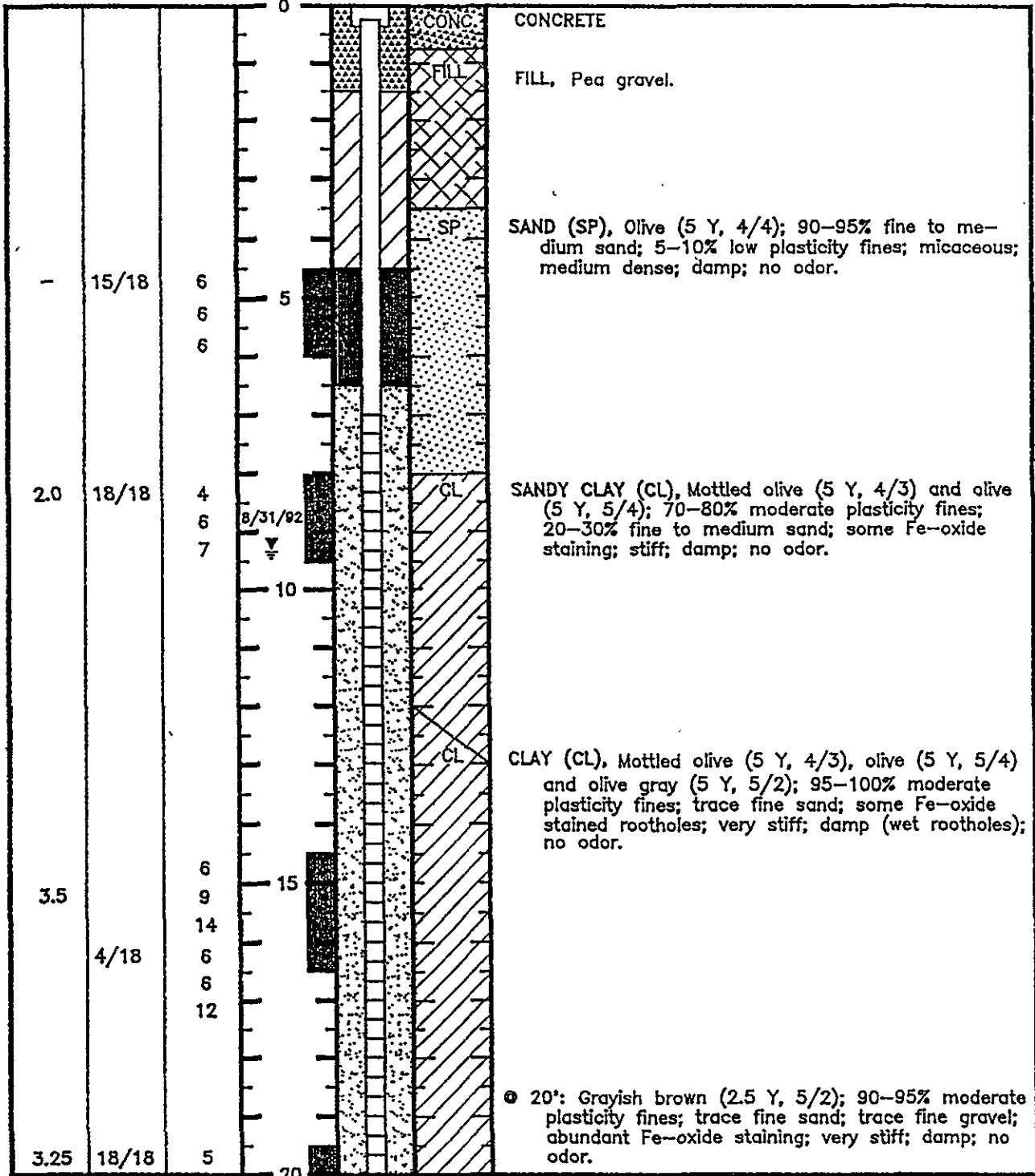
BORING LOG

Project Number: CTI-106
 Kilpatrick's Bakeries
 955 Kennedy Street, Oakland, CA

MONITORING WELL No.: MW-3
 TOP OF CASING ELEV.: 99.62 ft.
 TOTAL BORING DEPTH: 27.00 ft.
 BY: K. Rahman DATE: 8/26/92

Drawing No.: A1041205 Page: 1 of 2

Pocket penetrometer TSF	Recovery (in/in)	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Stratigraphic Column	Description
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Notes: Boring drilled using eight-inch diameter hollow-stem augers. Soil samples collected at the above-noted intervals using a two-inch diameter modified-California split-spoon sampler. A groundwater monitoring well was installed using two-inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well-head was surveyed to site datum.