Weiss Associates Environmental and Geologic Services

5500 Shellmound Street, Emeryville, CA 94608-2411 Fax: 510-547-5043 Phone: **510-450-6000**

May 3, 1994

Mr. Scott O. Seery
Alameda County Department
of Environmental Health
Hazardous Materials Division
80 Swan Way, Room 200
Oakland, CA 94621-1426

94 MAY -6 PM 1:19

Re: Closure Investigation
Shell Service Station
WIC #204-6852-0703
1285 Bancroft Avenue
San Leandro, California
WA Job #81-423-10

Dear Mr. Seery:

This letter presents the results of Weiss Associates' (WA) subsurface investigation conducted at the Shell service station referenced above (Figure 1). As discussed at a meeting on October 14, 1993 with Dan Kirk of Shell Oil Company, Scott Seery of the Alameda County Department of Environmental Health (ACDEH) and Scott MacLeod of WA, this investigation was conducted to secure the data necessary for ACDEH to consider case closure for this site. The investigation objectives, as outlined in WA's October 29, 1993 workplan,[1] were to assess whether hydrocarbons detected in soil beneath the waste oil tank had impacted ground water downgradient of the tank, and to evaluate the extent of hydrocarbons detected in a gravelly sand unit at about 27 ft depth near well MW-2.[2] Discussed below are the field activities and our recommendations for site closure.

[1] WA, October 29, 1993, Closure Investigation Workplan for the Shell service station at 1285 Bancroft Avenue in San Leandro, California, consultant's letter report prepared for Shell Oil Company, 2 pages.

[2] WA, April 27, 1992, Subsurface Investigation of the Shell service station at 1285 Bancroft Avenue in San Leandro, California, consultant's letter report prepared for Shell Oil Company, 5 pages, 4 figures, 4 tables and 4 attachments.

SCOPE OF WORK

WA's scope of work for this closure investigation was to:

- Drill and sample one boring downgradient of the waste oil tank, complete it as a ground water monitoring well (Figure 2) and analyze soil and water samples for hydrocarbons; and,
- Drill and sample two borings adjacent to well MW-2 (Figure 2), and analyze one to two samples from the gravelly sand unit located between depths of about 25 to 30 ft for hydrocarbons.

The procedures for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells are described in Attachment A.

SITE HISTORY

Site Setting

Topography:	The site is located about 0.75 miles west of the San Leandro Hills and about 500 ft south of San Leandro Creek (Figure 1). The site is flat and is about 65 ft above mean sea level.
Surroundings:	Mixed commercial and residential development.
Nearby Hydrocarbon Sources:	California Regional Water Quality Control Board - San Francisco Bay Region records indicate a fuel leak investigation cross- and downgradient of the site at the Garcia property, located at the southwestern corner of Bancroft and Callan Avenues (Figure 3).
Wells in the Site Vicinity:	21 wells are within one-half mile of the site. One domestic supply well is located about 0.5 mile northeast (crossgradient) of the site. A domestic or irrigation supply well is located within 500 ft west (cross- and downgradient) and within 500 ft east (cross- and upgradient) of the site (Figure 4, Table 1).

Regional Setting: Sediments in the site vicinity are Quaternary alluvial deposits derived from Mesozoic marine and Pliocene and Mesozoic intrusive rocks of the Diablo Range. The Hayward Fault Zone is less than one mile east of the site.

Previous Investigations

1986 Waste Oil Tank Removal: In November 1986, Petroleum Engineering of Santa Rosa, California removed a 550-gallon waste oil tank and installed a new 550-gallon fiberglass tank in the former tank pit. Immediately following the tank removal, Blaine Tech Services (BTS) of San Jose, California collected soil samples beneath the former tank location at 9 ft depth. The soil samples contained 83 parts per million (ppm) petroleum oil and grease and 583 ppm total oil and grease (TOG).[3] After additional excavation, BTS collected another soil sample at 9.5 ft depth that contained 89 ppm TOG. No ground water was encountered during the tank excavation.

1990 Well Installation: In March 1990, WA installed ground water monitoring well MW-1 adjacent to the waste oil tank.[4] The boring log for well MW-1 is included in Attachment B. Analytic results for soil from this boring are compiled in Table 2. WA has sampled well MW-1 quarterly since March 1990. Historical ground water analytic and elevation data are compiled in Tables 3 and 4, respectively.

1992 Well Installation: In February 1992, WA installed ground water monitoring wells MW-2 and MW-3 upgradient and downgradient of the underground fuel storage tanks, respectively.[2] The boring logs for wells MW-2 and MW-3 are included in Attachment B. Analytic results for soil from these borings are compiled in Table 2. WA has sampled wells MW-2 and MW-3 quarterly since March 1992. Previous ground water analytic and elevation data are compiled in Tables 3 and 4, respectively.

---

[3] BTS, November 21, 1986, Sampling Report 86315-M1, Shell Service Station, 1285 Bancroft Avenue, San Leandro, California, consultant's letter report prepared for Shell Oil Company, 3 pages and 2 attachments.

[4] WA, July 31, 1990, Second quarter 1990 activities at the Shell service station located at 1285 Bancroft Avenue in San, Leandro, California, consultant's letter report prepared for the Alameda County Department of Environmental Health (ACDEH), 10 pages and 2 attachments.

CLOSURE INVESTIGATION RESULTS

February 1994 Drilling

Permits Obtained: Drilling Permit No. 94052 from the Alameda County Flood Control and Water Conservation District, Zone 7.

Drilling Dates: February 15 and 16, 1994

Drilling Geologist: WA geologist Kurt Brücker, working under the supervision of James W. Carmody, Certified Engineering Geologist.

Drilling Contractor and Method: Soils Exploration Services, Inc. of Vacaville, California drilled the borings with a CME-55 hollow-stem auger drill rig using 6-inch diameter hollow-stem augers for the borings and 10-inch hollow-stem augers for the monitoring well. (Drilling and sampling procedures are presented as Attachment A.)

Number of Borings: Three: borings BH-D, BH-E and BH-F (Figure 2).

Boring Depths: 29.5 ft for BH-D and BH-E, 55 ft for BH-F (sampling extended to 56.5 ft).

Lithology Encountered: Primarily clayey and sandy silt to about 50 ft depth with a silty sand, silty gravel and gravelly sand layer from about 23 to 28 ft depth; silty sand to sandy gravel from about 50 ft to the total depth explored. The boring logs and well construction details are presented in Attachment B.

Soil Analyses: Select soil samples from the borings were analyzed for TPH-G and total petroleum hydrocarbons as diesel (TPH-D) by modified EPA Method 8015; benzene, ethylbenzene, toluene and xylenes (BETX) by EPA Method 8020; halogenated volatile compounds (HVOCs) by EPA Method 8010; and petroleum oil and grease by EPA Method 5520E&F. The analytic results are tabulated in Table 2 and the analytic reports and chain of custody forms are included as Attachment C.

Waste Disposal:	Soil cuttings were disposed at the Browning-Ferris, Inc. (BFI) landfill in Livermore, California as non-hazardous Class III waste; steam clean rinsate and purge water were recycled at the Shell Refinery in Martinez, California.

February 1994 Well Construction

Number of Wells:	One: Boring BH-F was completed as well MW-4 (Figure 2).
Well Materials:	4-inch diameter Schedule 40 PVC well casing with 0.010-inch slotted screen; Monterey #1/20 sand.
Screened Interval:	35 to 55 ft depth. The well construction details are presented in Attachment B.
Well Development Method:	Surge block agitation and airlift evacuation.
Flow Rate:	Approximately 1.5 gallons per minute during well development.
Ground Water Analyses:	On March 1, 1993, ground water samples were collected and analyzed for TPH-G and TPH-D by modified EPA Method 8015, BETX by EPA Method 8020, VOCs by EPA Method 624, and oil and grease by EPA Method 413.2. The analytic results are tabulated in Table 3 and the analytic reports and chain of custody forms are included as Attachment D.
Ground Water Depth:	Approximately 40 ft below grade in MW-4 (Table 4).
Ground Water Flow Direction:	North-northwestward with a gradient of about 0.002 ft/ft (Figure 2).

HYDROCARBON DISTRIBUTION IN SOIL

Borings BH-D and BH-E were drilled to assess the extent of hydrocarbons in a gravelly sand unit detected in boring BH-B during a previous investigation. As specified in the workplan,[1] two soil samples were collected from the gravelly sand unit in each boring to evaluate the lateral extent of hydrocarbons detected in boring BH-B. The only fuel hydrocarbons detected in any of these samples

were in boring BH-E where 0.0075 ppm and 0.015 ppm benzene were reported in soil samples collected from 27.0 and 28.8 ft, respectively (Table 2, Attachment C). No hydrocarbons were detected in the 25.8 and 27.3 ft depth samples from boring BH-D. Based on these analytic results, hydrocarbon concentrations in the gravelly sand appear to be limited to the immediate vicinity of well MW-2.

Boring BH-F, drilled downgradient of the waste oil tank, was sampled every 5 ft between depths of 15.5 and 55.5 ft (Table 2, Attachment C). No hydrocarbons were detected in any of the samples. Furthermore, no HVOCs were detected in any of the soil samples from the three new borings.

HYDROCARBON DISTRIBUTION IN GROUND WATER

No petroleum hydrocarbons were detected in ground water from newly installed well MW-4. Although this well contained less than 10 parts per billion (ppb) chloroform and tetrachloroethene (PCE), these compounds were not detected in unsaturated soil samples from the boring. Based on the recent and historic ground water analytic results, petroleum hydrocarbons in ground water appear to be primarily limited to the vicinity of well MW-2.

RECOMMENDATIONS

The August 10, 1990 Tri-Regional Water Quality Control Board (WQCB) guidance document presents criteria for determining environmental case closure based on site and tank conditions, and analytic results for soil samples collected beneath a removed underground storage tank.[5] If soil samples collected within two feet of the tank bottom contain more than 100 ppm TOG or other hydrocarbons, then additional investigation is required. Since over 100 ppm TOG and TPH-G were detected in soil beneath the waste oil tank and adjacent to the underground fuel storage tanks, respectively, WA conducted the additional investigation in accordance with the Tri-Regional guidelines.

---

[5] North Coast, San Francisco Bay and Central Valley Regional Water Quality Control Boards, August 10, 1990, Tri-Regional Board Staff Recommendations for Preliminary Evaluation and Investigation of Underground Tank Sites, 21 pages.

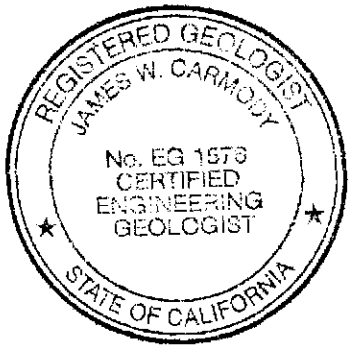
May 3, 1994

Although TPH-G concentrations are greater than 100 ppm in the soil samples collected between 27.5 and 44.5 ft depths in boring BH-B, the impact this hydrocarbon-bearing soil has had on ground water appears to be relatively minimal. The soil beneath the site has a low estimated permeability, except for the gravelly sand unit from about 26 to 28 ft depth. Sampling of this permeable unit in the vicinity of MW-2 suggests that the hydrocarbons are limited to the vicinity of MW-2.

All work at the site has been conducted according to the Tri-Regional WQCB guidelines. Since the fuel hydrocarbons in ground water are limited to a small area adjacent to the underground fuel storage tanks, on behalf of Shell Oil Company, WA requests WQCB case closure for this site.

We appreciate your consideration of this request. Please call if you have any questions or comments regarding this closure reuqest or the investigation.

Sincerely,
Weiss Associates



Janet K. Macdonald
Senior Staff Hydrogeologist

James W. Carmody
Senior Project Hydrogeologist, C.E.G.

JKM/JWC:jm

J:\HC_ENG\SHELL\SANL-423\423L1AP4.WP

Attachments: Figures
Tables
A - Standard Field Procedures
B - Boring Logs
C - Analytic Results for Soil
D - Analytic Results for Ground Water

cc: Dan Kirk, Shell Oil Company, P.O. Box 5278, Concord, California 94520-9998
Lester Feldman, California Regional Water Quality Control Board - San Francisco Bay Region, 2101 Webster Street, Oakland, California 94612

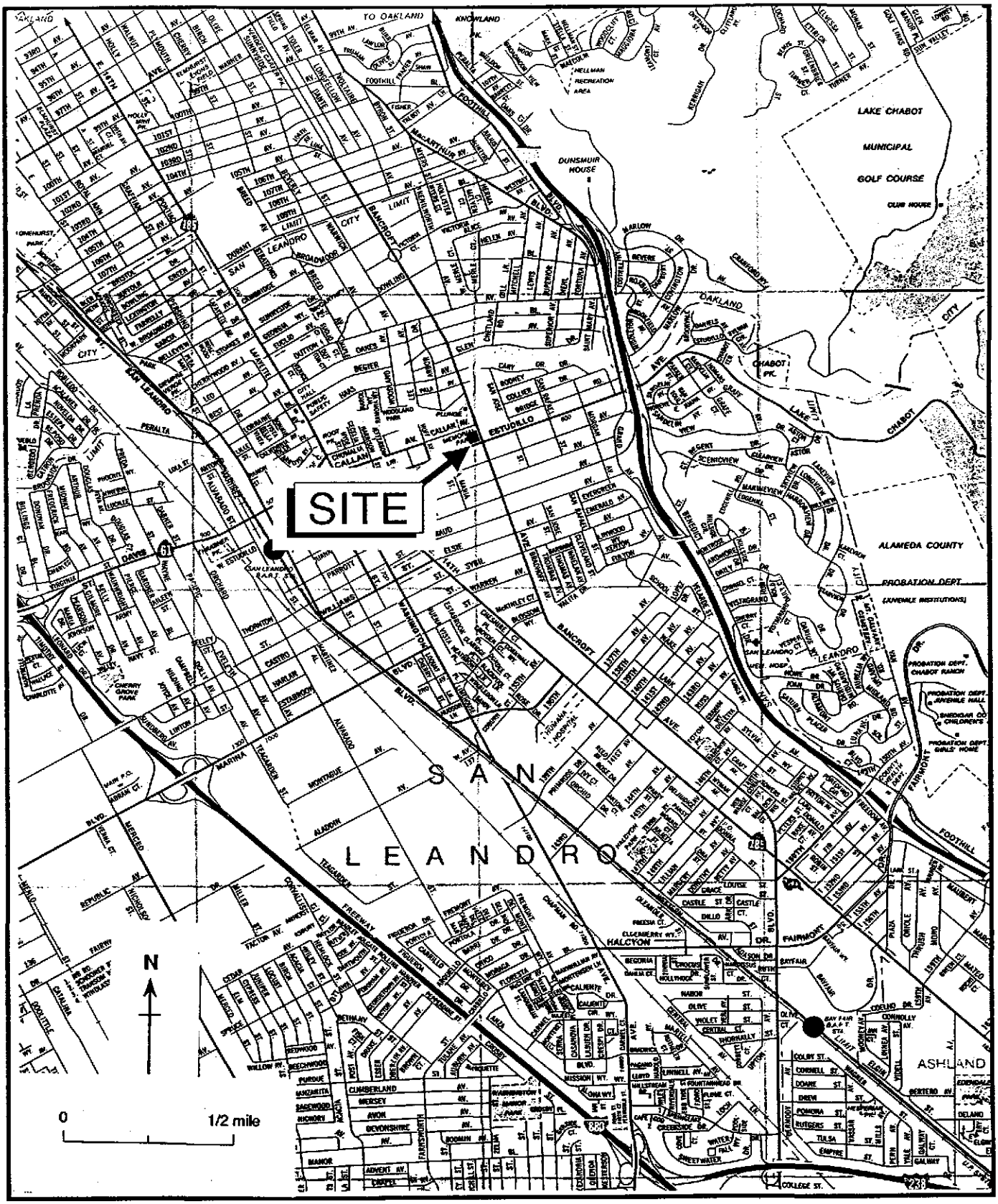


Figure 1. Site Location Map - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

3/16/90

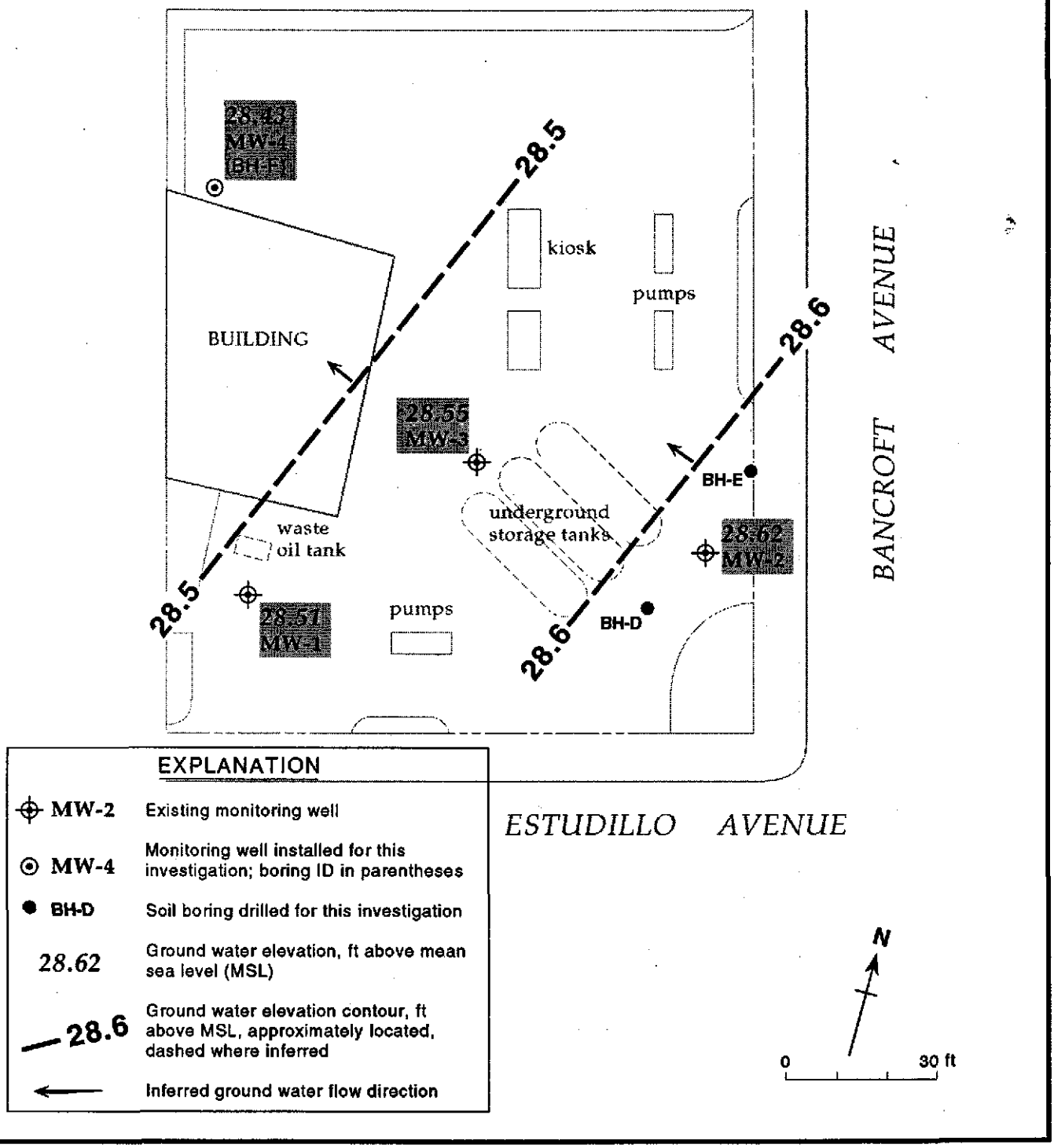


Figure 2. Monitoring Well Locations and Ground Water Elevation Contours - [redacted] Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

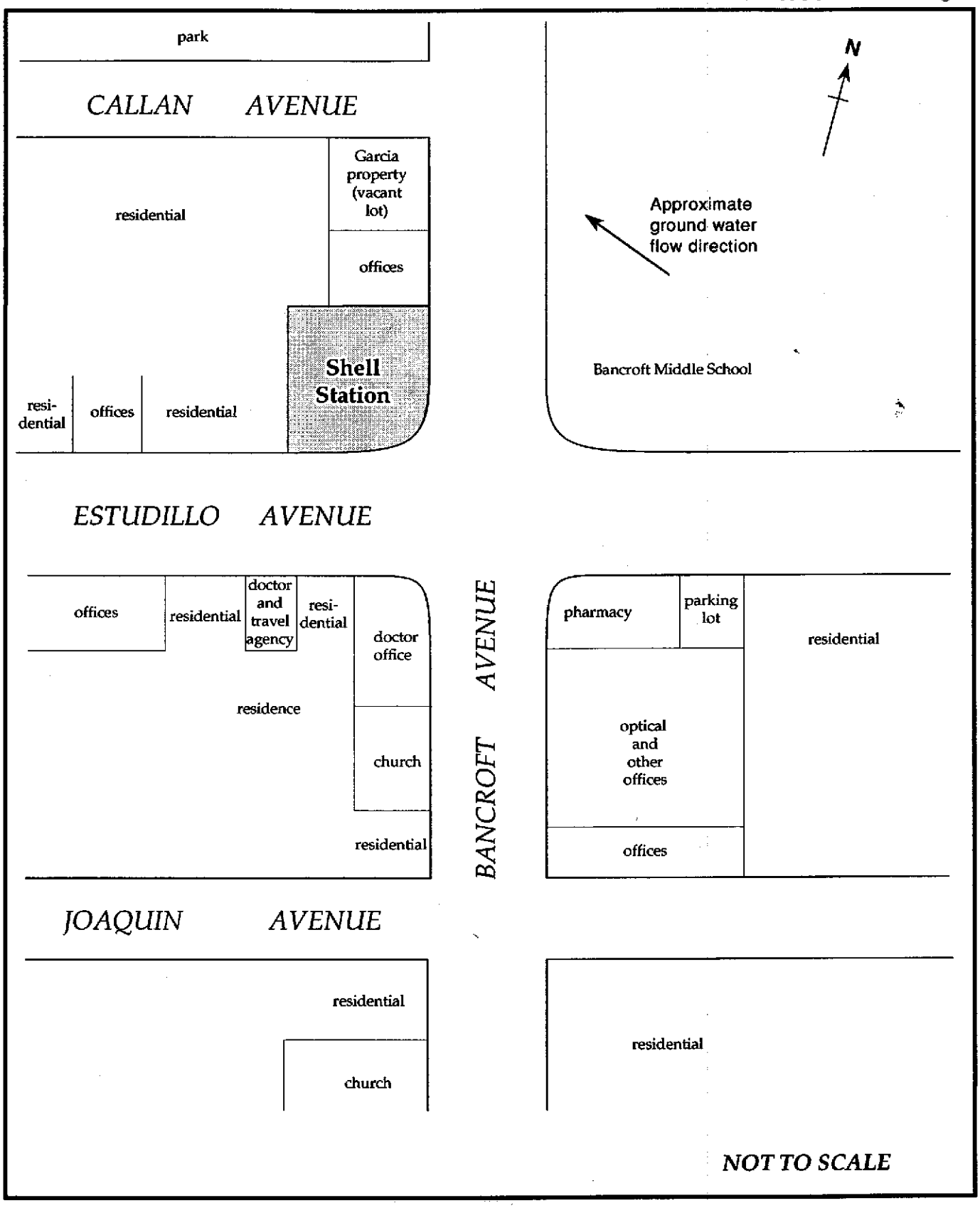
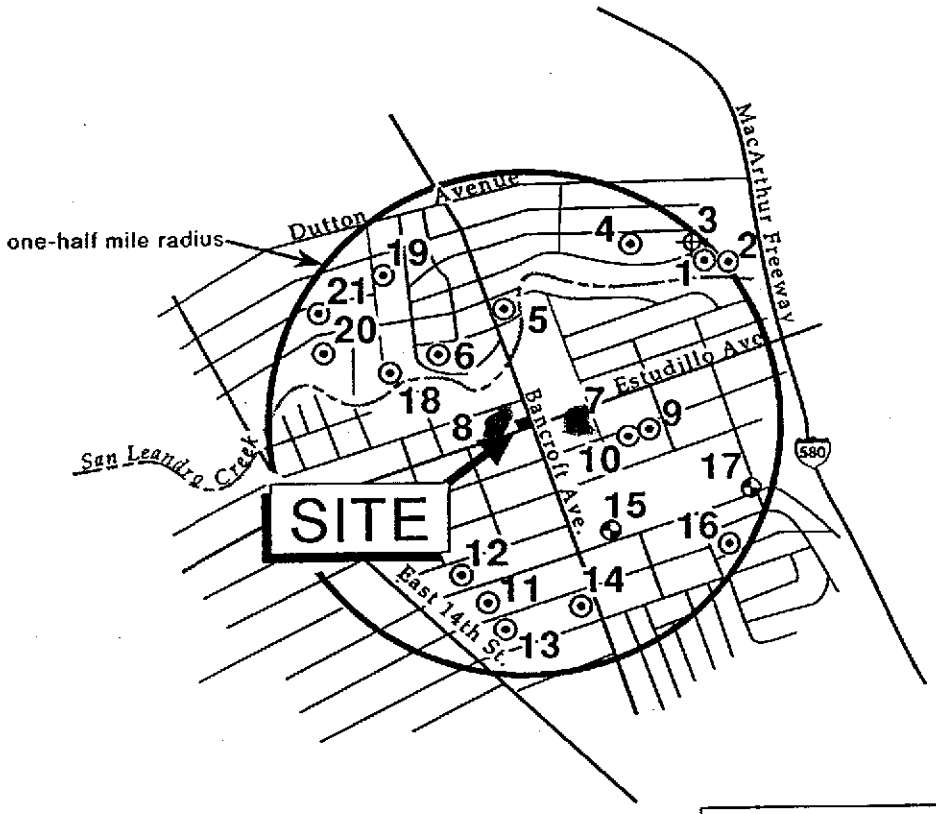
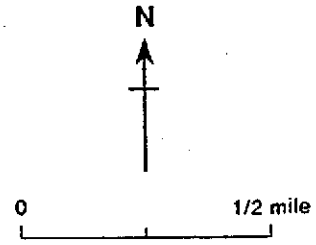


Figure 3. Businesses and Properties in the Site Vicinity - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Table 1. Wells Located Within One-Half Mile of Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

ID	Owner	Location	Use	Year Drilled
1	Arthur H. Lund	1123 Glen Dr	Irrigation	1977
2	Ole Juul	881 St. Mary Ave	Irrigation	1991
3	Brad Jones	1374 Glen Dr	Domestic	1991
4	Bob Eversole	833 Begier Ave	Irrigation	1977
5	O.R. Johnson - J. Stanisich	1030 Bancroft Ave	Irrigation	1977
6	J.A. Thompson	523 Pala Ave	Irrigation	1977
7	Dr. A.W. Scalasy	659 Estudillo Ave	[illegible]	1933
8	Chasl Hale	566 Estudillo Ave	[illegible]	1937
9	Emil Sereda	769 Joaquin Ave	Irrigation	1977
10	James R. Meyer	745 Joaquin Ave	Irrigation	1977
11	Tony Yacek	353 Maud	Irrigation	1977
12	H.C. Silliman III	465 Dolores Ave	Irrigation	1977
13	Luke & Olive Deasy	309 Elsie St	Irrigation	1988
14	George Bradley Land, III	655 Elsie St	Irrigation	1977
15	Sal Julione	646 Maude Ave	unknown	1949
16	Edmond Saustina	862 Emeral Ave	Irrigation	1977
17	Funucchi	Maud Ave & Morgan	unknown	1947
18	P.M. Rice	337 Woodland Pk	Irrigation	1977
19	Tom W. Saedden	730 Woodland Ave	Irrigation	1977
20	Davis C. Henrichsen	961 Karol Wy	Irrigation	1977
21	Dennis F. Omick	261 Bergier Ave	Irrigation	1977





EXPLANATION

⊙2	Appropriate location and number of irrigation well listed in Table 1
⊕3	Approximate location and number of domestic supply well listed in Table 1
●7	Approximate location and number of irrigation or domestic supply well
⊙15	Approximate location and number of unknown well listed in Table 1

Figure 4. Wells Within One-Half Mile of Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

4/10/92

Table 2. Analytic Results for Soil - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Boring ID (Well ID)	Sample Depth (ft)	Date Sampled	Ground Water Depth (ft)	TPH-G	TPH-D	POG	B	E	T	X	PCE	HVOCs
				<---------- parts per million (mg/kg) ---------->								
BH-A	9.2	03/06/90	43.0	<1	---	<100	<0.0025	<0.0025	<0.0025	<0.0025	0.0020	a
(MW-1)	19.7			<1	---	<100	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	a
	29.7			<1	---	<100	<0.0025	<0.0025	<0.0025	<0.0025	<0.0020	a
	39.7			<1	1.6[b]	<100	<0.0025	<0.0025	<0.0025	0.0057	<0.0020	a
	51.2			<1	---	<100	<0.0025	<0.0025	<0.0025	<0.0025	0.0045	a
	61.2			<1	---	<100	<0.0025	<0.0025	<0.0025	<0.0025	0.0043	a
BH-B	27.5	02/06/92	44.8	1,500	1,000[c]	---	<0.25	0.82	<0.25	6.9	<0.002	a
(MW-2)	31.5			12	---	---	<0.0025	0.0090	<0.0025	0.058	---	---
	36.5			71	16[c]	---	<0.025	0.056	<0.025	0.21	<0.002	a
	41.5			3,500	---	---	<1.25	19	<1.25	46	---	---
	44.5			8,800	4,500[c]	---	<2.5	72	<2.5	170	<0.002	a
	48.5			19	---	---	<0.025	<0.025	<0.025	0.092	---	---
BH-C	31.5	02/07/92	44.9	<1	---	---	<0.0025	<0.0025	<0.0025	<0.0025	---	---
(MW-3)	36.5			<1	<1	---	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	41.5			64	---	---	<0.025	<0.025	<0.025	0.25	---	---
	44.5			45	29[c]	---	<0.025	<0.025	<0.025	0.25	<0.002	a
	48.5			15	---	---	<0.0025	<0.0025	<0.0025	0.60	---	---
BH-D	25.8	02/15/94	NE	<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	27.3			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
BH-E	27.0	02/15/94	NE	<1	<1	<50	[illegible]	<0.0025	<0.0025	<0.0025	<0.002	a
	[illegible]			<1	<1	<50	0.015	<0.0025	<0.0025	<0.0025	<0.002	a
BH-F	15.5	02/16/94	40.8	<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
(MW-4)	20.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	25.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	30.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	35.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	40.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	45.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	50.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a
	55.5			<1	<1	<50	<0.0025	<0.0025	<0.0025	<0.0025	<0.002	a

-- Table 2 continues on next page --

Table 2. Analytic Results for Soil - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015
TPH-D = Total petroleum hydrocarbons as diesel by modified EPA Method 8015
POG = Petroleum oil and grease by American Public Health Association (APHA) Standard Method 503E
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
PCE = Tetrachloroethene by EPA Method 8010
HVOCs = Halogenated volatile organic compounds by EPA Method 8010
--- = Not analyzed
<n = Not detected above method detection limit of n ppm
NE = Not encountered

Analytical Laboratory:

National Environmental Testing (NET) Pacific, Inc., Santa Rosa, California

Notes:

a = No HVOCs detected
b = No total petroleum hydrocarbons as motor oil detected at modified EPA Method 8015 detection limit of 10 ppm
c = NET reported that the detected compound is a hydrocarbon lighter than diesel

Table 3A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			<----------parts per billion (µg/L)---------->					
MW-1	09/17/91	44.85	50[a]	160[b]	<0.5	<0.5	<0.5	<0.5
	03/01/92	41.56	<50	<50	<0.5	<0.5	<0.5	<0.5
	06/03/92	40.74	<50	---	0.8	0.9	<0.5	<0.5
	09/01/92	43.05	<50	---	<0.5	5.3	5.8	7.2
	12/07/92	44.19	68	---	<0.5	<0.5	0.8	1.2
	03/01/93	34.96	<50	---	<0.5	<0.5	<0.5	<0.5
	03/01/93[dup]		<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.75	<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93	39.36	200[c]	---	16	2.0	5.2	<0.5
	12/13/93	**40.74**	**89[d]**	**---**	**3.4**	**<0.5**	**<0.5**	**<0.5**
MW-2	03/01/92	41.57	910	<50	11	50	5.2	140
	06/03/92	40.56	1,400	---	33	150	16	240
	09/01/92	42.94	230	---	5.2	15	4.1	19
	09/01/92[dup]		320	---	5.6	18	5	220
	12/07/92	44.13	240	---	1.5	9.5	1.3	9.9
	12/07/92[dup]		<50	---	1.7	13	1	12
	03/01/93	34.82	230	---	260	27	310	66
	06/22/93	36.64	220	---	18	3.6	3.4	5.2
	06/22/93[dup]		320	---	29	4.2	4.8	6.1
	09/09/93	39.24	260	---	18	16	4.6	12
	09/09/93[dup]	39.24	210	---	16	14	3.9	9.1
	12/13/93	**40.64**	**1,300[e]**	**---**	**82**	**73**	**34**	**15**
	12/13/93[dup]	**40.64**	**1,400[e]**	**---**	**110**	**72**	**45**	**19**
MW-3	03/01/92	42.00	<50	<50	<0.5	<0.5	<0.5	<0.5
	06/03/92	44.30	<50	---	<0.5	<0.5	<0.5	<0.5
	09/01/92	43.62	<50	---	<0.5	1.1	<0.5	3.2
	12/07/92	44.77	52	---	<0.5	<0.5	<0.5	0.5
	03/01/93	35.50	<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	37.30	<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93	39.90	50[c]	---	5.0	<0.5	<0.5	<0.5
	12/13/93	**41.30**	**120[d]**	**---**	**7.5**	**1.6**	**<0.5**	**6.3**
MW-4	**03/01/94**	**39.80**	**<50**	**<50**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
Bailer Blank	09/01/92		<50	---	<0.5	<0.5	<0.5	1
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5
Trip Blank	09/17/91		<50	---	<0.5	<0.5	<0.5	<0.5
	03/01/92		<50	---	<0.5	<0.5	<0.5	<0.5
	06/03/92		<50	---	<0.5	<0.5	<0.5	<0.5
	09/01/92		<50	---	<0.5	<0.5	<0.5	<0.5
	12/07/92		<50	---	<0.5	<0.5	<0.5	<0.5

-- Table 3A continues on next page --

Table 3A. Analytical Results for Ground Water - Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water (ft)	TPH-G	TPH-D	B	E	T	X
			<----------parts per billion (µg/L)---------->					
	03/01/93		<50	---	<0.5	<0.5	<0.5	<0.5
	06/22/93		<50	---	<0.5	<0.5	<0.5	<0.5
	09/09/93		<50	---	<0.5	<0.5	<0.5	<0.5
	12/13/93		**<50**	**---**	**<0.5**	**<0.5**	**<0.5**	**<0.5**
DTSC MCLs			NE	NE	1	680	100[e]	1,750

Abbreviations:

TPH-G = Total petroleum hydrocarbons as gasoline by Modified EPA Method 8015
TPH-D = Total petroleum hydrocarbons as diesel by Modified EPA Method 8015
B = Benzene by EPA Method 8020
E = Ethylbenzene by EPA Method 8020
T = Toluene by EPA Method 8020
X = Xylenes by EPA Method 8020
dup = Duplicate sample
NE = Not established
DTSC MCLs = California Department of Toxic Substances Control maximum contaminant levels for drinking water
--- = Not analyzed
<n = Not detected at detection limits of n ppm

Notes:

a = Result due to a non-gasoline hydrocarbon compound
b = Result due to a non-diesel hydrocarbon compound
c = The concentrations reported as gasoline are primarily due to the presence of a combination of gasoline and a discrete peak not indicative of gasoline.
d = The concentrations reported as gasoline are primarily due to the presence of a discrete peak not indicative of gasoline
e = DTSC recommended action level; MCL not established

Table 3B. Analytic Reports for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			<----------parts per billion (µg/L)---------->					
MW-1	03/08/90	42.65	---	<10,000	35	6.3	---	---
	06/12/90	43.14	---	<10,000	1.9	63	---	---
	09/13/90	44.71	---	<10,000	26	9	---	---
	12/18/90	45.23	---	<10,000	<0.4	5.3	---	---
	03/07/91	43.32	---	---	23	3.7	---	---
	06/07/91	42.18	---	---	21	6.6	---	---
	09/17/91	44.85	---	---	23	7.4	---	---
	03/01/92	41.56	<0.4	---	21	6.3	---	<0.4
	06/03/92	40.74	17	---	<0.5	6.7	<0.5	<0.5
	09/01/92	43.05	12	---	<0.5	5.8	<0.5	<0.5
	12/07/92	44.19	<0.5	---	17	9	<0.5	<0.5
	03/01/93	34.96	<0.5	---	22	13	<0.5	<0.5
	03/01/93[dup]		<0.5	---	22	13	<0.5	<0.5
	06/23/93	36.75	<0.5	---	18	8	<0.5	<0.5
	09/09/93	39.36	<0.5	---	17	6.5	<0.5	<0.5
	12/13/93	**40.74**	---	---	---	---	---	---
MW-2	03/01/92	41.57	<0.4	---	11	8.9	---	<0.4
	06/03/92	40.56	7.4	---	<0.5	<0.5	0.76	6.3
	09/01/92	42.94	8.4	---	<0.5	9.1	<0.5	<0.5
	09/01/92[dup]	42.94	8.4	---	<0.5	8.1	<0.5	<0.5
	12/07/92	44.13	<0.5	---	10	10	<0.5	<0.5
	12/07/92[dup]	44.13	<0.5	---	10	9	<0.5	<0.5
	03/01/93	34.82	<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93	36.64	<0.5	---	13	7.9	<0.5	<0.5
	06/22/93[dup]	36.64	<0.5	---	12	6.9	<0.5	<0.5
	09/09/93	39.24	<0.5	---	11	5.9	1.9	<0.5
	09/09/93	39.24	<0.5	---	12	7.3	1.1	<0.5
	12/13/93	**40.64**	---	---	---	---	---	---
MW-3	03/01/92	42.00	<0.4	---	8.8	2.4	---	<0.4
	06/03/92	44.30	3	---	<0.5	1.5	<0.5	<0.5
	09/01/92	43.62	8.8	---	<0.5	2.3	<0.5	<0.5
	12/07/92	44.77	<0.5	---	10	3	<0.5	<0.5
	03/01/93	35.50	<0.5	---	9.2	9.4	<0.5	<0.5
	06/22/93	37.30	<0.5	---	7.8	9.6	<0.5	<0.5
	09/09/93	39.90	<0.5	---	7.9	7.3	<0.5	<0.5
	12/13/93	**41.30**	---	---	---	---	---	---
MW-4	**03/01/94**	**39.80**	**<1.9***	**<5,000**	**8.4***	**6.6***	---	**<1.6***
Bailer Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92		<0.5	---	<0.5	<0.5	<0.5	<0.5

-- Table 3B continues on next page --

Table 3B. Analytic Reports for Ground Water - Non-Fuel Compounds - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California (continued)

Well ID	Date Sampled	Depth to Water	TCE	TOG	PCE	Chloroform	cis-1,2-DCE	trans-1,2-DCE
			<----------parts per billion (µg/L)---------->					
Trip Blank	09/01/92		<0.5	---	<0.5	<0.5	<0.5	<0.5
	12/07/92[a]		<0.5	---	<0.5	<0.5	<0.5	<0.5
	03/01/93		<0.5	---	<0.5	<0.5	<0.5	<0.5
	06/22/93[b]		<0.5	---	<0.5	<0.5	<0.5	<0.5
DTSC MCLs			5	NE	5	NE	6	10

Abbreviations:

TCE = Trichloroethene by EPA Method 601
TOG = Total non-polar oil and grease by American Public Health Association Standard Methods 503A&E
PCE = Tetrachloroethene by EPA Method 601
cis-1,2-DCE = cis-1,2-Dichloroethene by EPA Method 601
trans-1,2-DCE = trans-1,2-Dichlorethene by EPA Method 601
--- = Not analyzed
dup = Duplicate sample
DTSC MCLs = Department of Toxic Substances Control maximum contaminant levels for drinking water
NE = DTSC MCL not established

Notes:

a = Compound detected by EPA Method 624
b = Sample contained 0.014 mg/L of 1,3-Dichlorobenzene.
c = Although 1.4 ppb methylene chloride was detected in one of the ground water samples from well MW-2, the laboratory indicated that this was within normal laboratory background concentrations.

ATTACHMENT A

STANDARD FIELD PROCEDURES

ATTACHMENT A
STANDARD FIELD PROCEDURES

STANDARD FIELD PROCEDURES

Weiss Associates (WA) has developed standard procedures for drilling and sampling soil borings and installing, developing and sampling ground water monitoring wells. These procedures comply with Federal, State and local regulatory guidelines. Specific procedures are summarized below.

SOIL BORING AND SAMPLING

Objectives/Supervision

Soil sampling objectives include characterizing subsurface lithology, assessing whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and collecting samples for analysis at a State-certified laboratory. All borings are logged using the Unified Soil Classification System by a trained geologist working under the supervision of a California Registered Geologist (RG) or a Certified Engineering Geologist (CEG).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers. Split-barrel samplers lined with steam-cleaned brass or stainless steel tubes are driven through the hollow auger stem into undisturbed sediments at the bottom of the borehole using a 140 pound hammer dropped 30 inches. Soil samples can also be collected without using hollow-stem augers by progressively driving split-barrel soil samplers to depths of up to 20 ft.

Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Near the water table and at lithologic changes, the sampling interval may be less than five ft.

Drilling and sampling equipment is steam-cleaned prior to drilling and between borings to prevent cross-contamination. Sampling equipment is washed between samples with trisodium phosphate or an equivalent EPA-approved detergent.

Sample Analysis

After noting the lithology at each end of the sampling tubes, the tube chosen for analysis is immediately trimmed of excess soil and capped with teflon tape and plastic end caps. The sample is labelled, stored at or below 4°C, and transported under chain-of-custody to a State-certified analytic laboratory.

Screening

One of the remaining tubes is partially emptied leaving about one-third of the soil in the tube. The tube is capped with plastic end caps and set aside to allow hydrocarbons to volatilize from the soil. After ten to fifteen minutes, a portable photoionization detector (PID) measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. PID measurements are used along with the stratigraphy and ground water depth to select soil samples for analysis.

Grouting

If the borings are not completed as wells, the borings are filled to the ground surface with cement grout poured or pumped through a tremie pipe. If wells are completed in the borings, the well installation, development and sampling procedures summarized below are followed.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Wells are installed to monitor ground water quality and determine the ground water elevation, flow direction and gradient. Well depths and screen lengths are based on ground water depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and state and local

regulatory guidelines. Well screens typically extend 15 ft below and 5 ft above the static water level at the time of drilling. However, the well screen will generally not extend into or through a clay layer that is at least three to five ft thick.

Well casing and screen are flush-threaded, Schedule 40 PVC. Screen slot size varies according to the sediments screened, but slots are generally 0.010 or 0.020 inches wide. A rinsed and graded sand occupies the annular space between the boring and the well screen to about one to two ft above the well screen. A two ft thick hydrated bentonite seal separates the sand from the overlying sanitary surface seal composed of cement with 3-5% bentonite.

Well-heads are secured by locking well-caps inside traffic-rated vaults finished flush with the ground surface. A stovepipe may be installed between the well-head and the vault cap for additional security. The well top-of-casing elevation is surveyed with respect to mean sea level and the well is surveyed for horizontal location with respect to an onsite or nearby offsite landmark.

Well Development

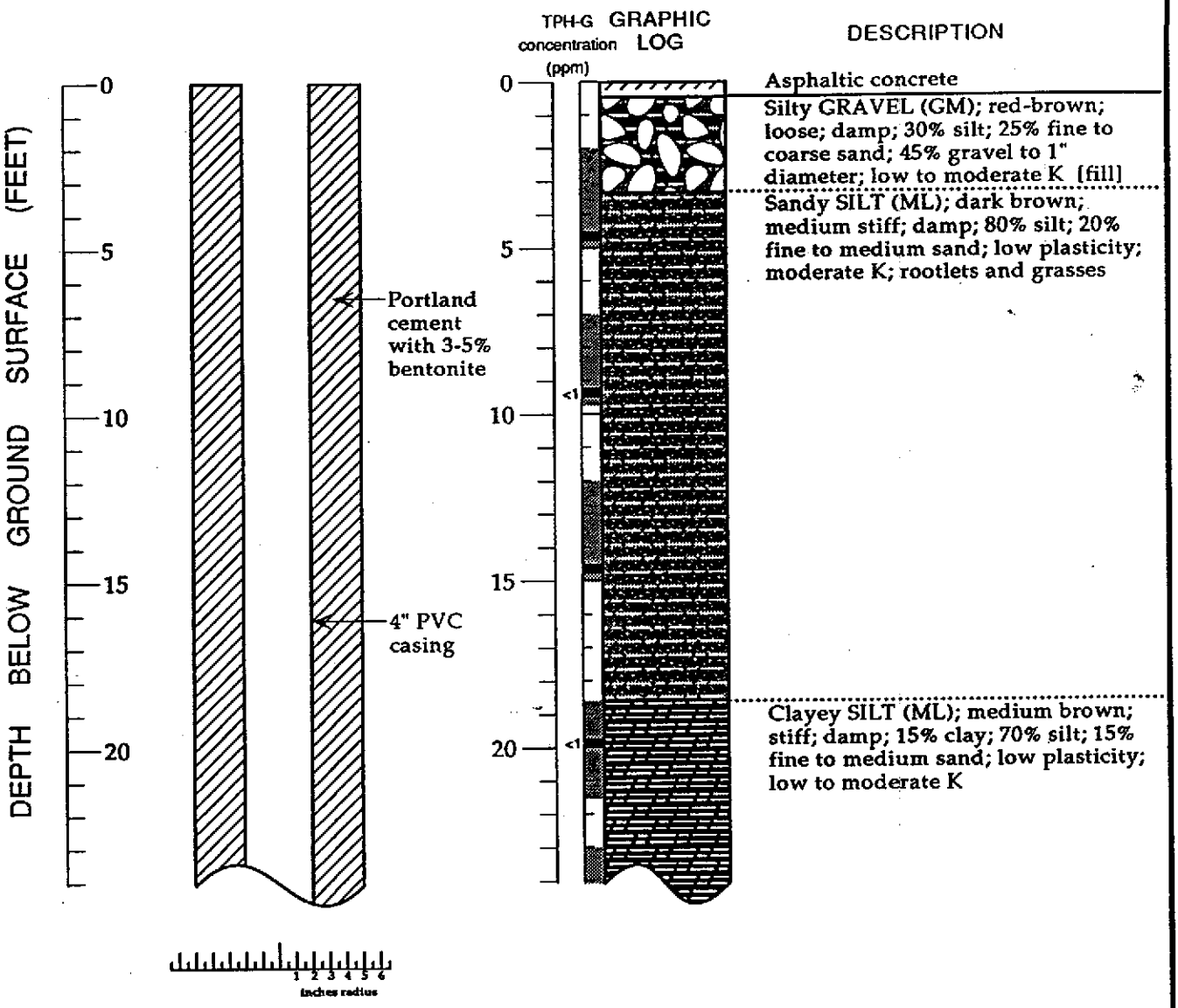
After 24 hours, the wells are developed using a combination of ground water surging and extraction. Surging agitates the ground water and dislodges fine sediments from the sand pack. After about ten minutes of surging, ground water is extracted from the well using bailing, pumping and/or reverse air-lifting through an eductor pipe to remove the sediments from the well. Surging and extraction continue until at least ten well-casing volumes of ground water are extracted and the sediment volume in the ground water is negligible. All equipment is steam-cleaned prior to use and air used for air-lifting is filtered to prevent oil entrained in the compressed air from entering the well. Wells that are developed using air-lift evacuation are not sampled until at least 24 hours after they are developed.

Ground Water Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of ground water are purged prior to sampling. Purging continues until ground water pH, conductivity, and temperature have stabilized. Ground water samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labelled, placed in protective foam sleeves, stored at 4°C, and transported under chain-of-custody to the laboratory. Laboratory-

supplied trip blanks accompany the samples and are analyzed to check for cross-contamination. An equipment blank may be analyzed if non-dedicated sampling equipment is used.

WELL MW-1 (BH-A)



EXPLANATION

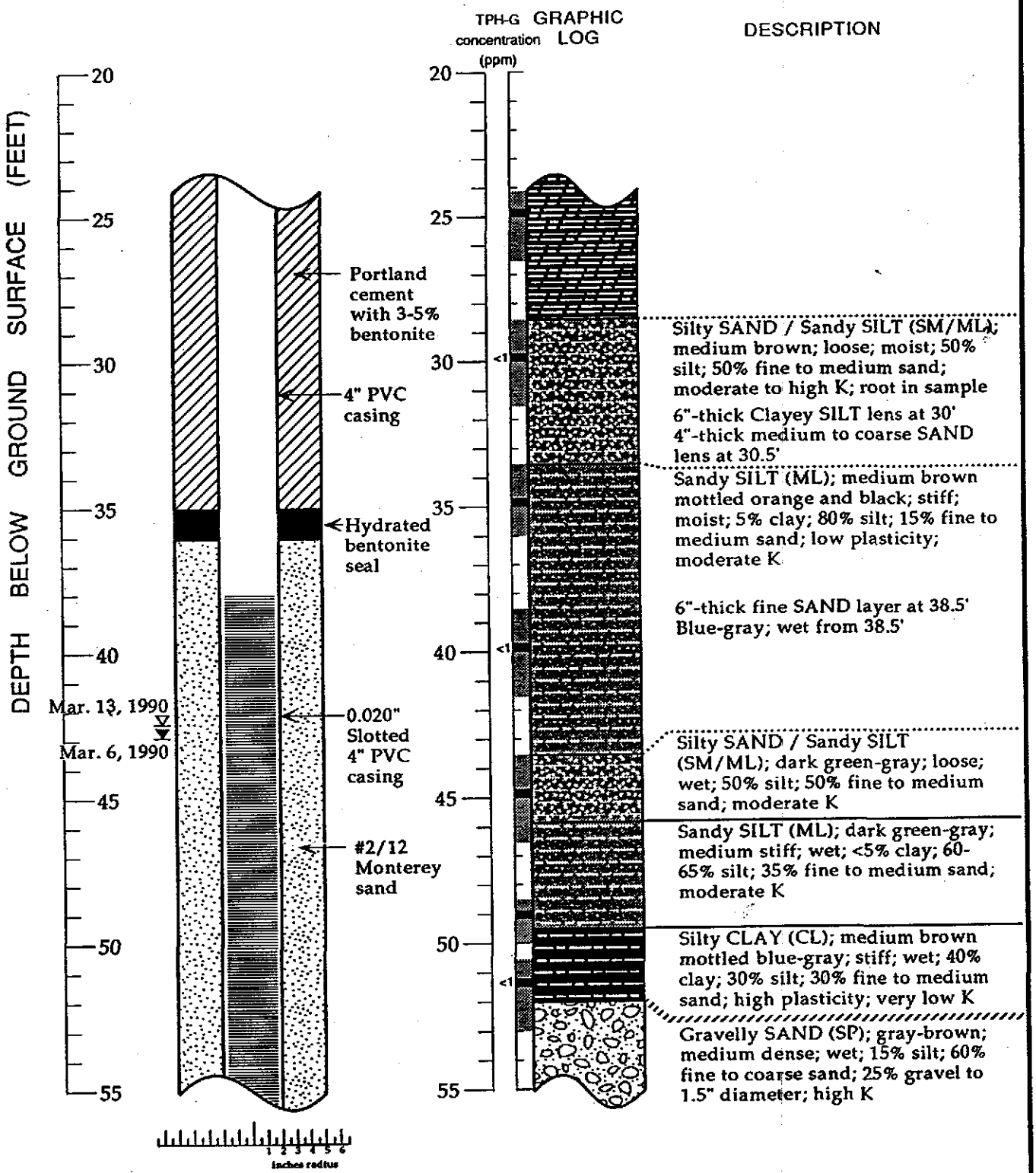
- ▼ Water level during drilling (date)
- ▽ Water level (date)
- ——— Contact (dotted where approximate)
- —?—?— Uncertain contact
- //////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Karin Sixt
Supervisor: Richard B. Weiss; CEG 1112
Drilling Company: HEW Drilling, East Palo Alto, CA
License Number: C57-384167
Driller: Casto Pineda
Drilling Method: Hollow-stem auger
Date Drilled: March 6, 1990
Well Head Completion: 4" locking well-plug, traffic-rated vault
Type of Sampler: Split barrel (1.5", 2" ID)
Ground Surface Elevation: 66.60 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

3/5/92

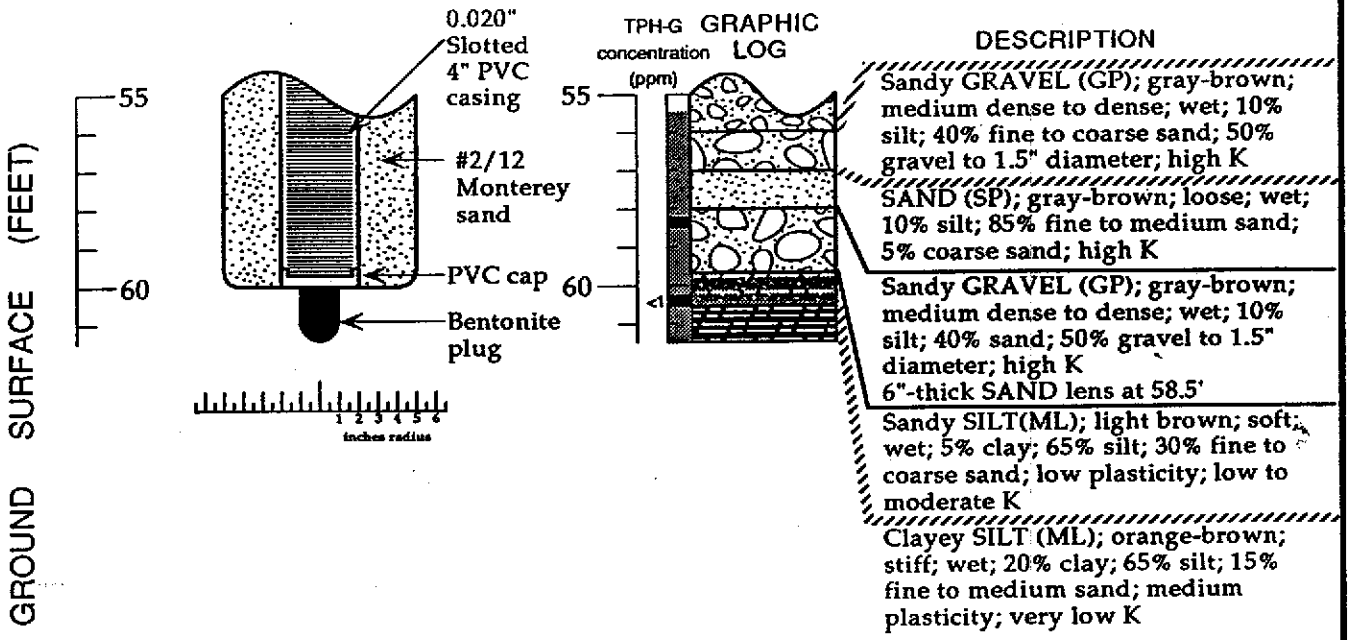
WELL MW-1 (BH-A) (cont.)



Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

4/10/92

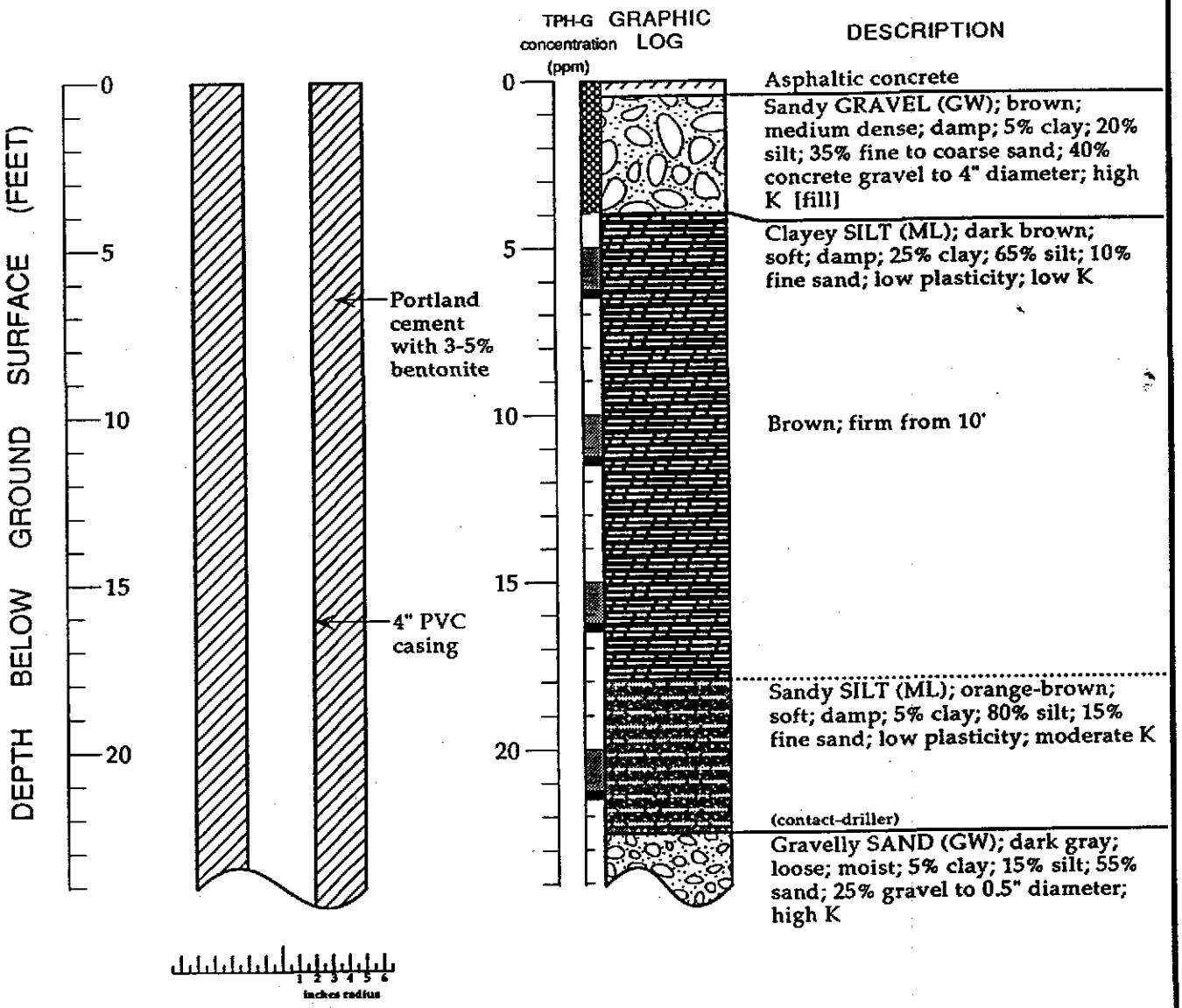
WELL MW-1 (BH-A) (cont.)



Boring Log and Well Construction Details - Well MW-1 (BH-A) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

3/5/92

WELL MW-2 (BH-B)



EXPLANATION

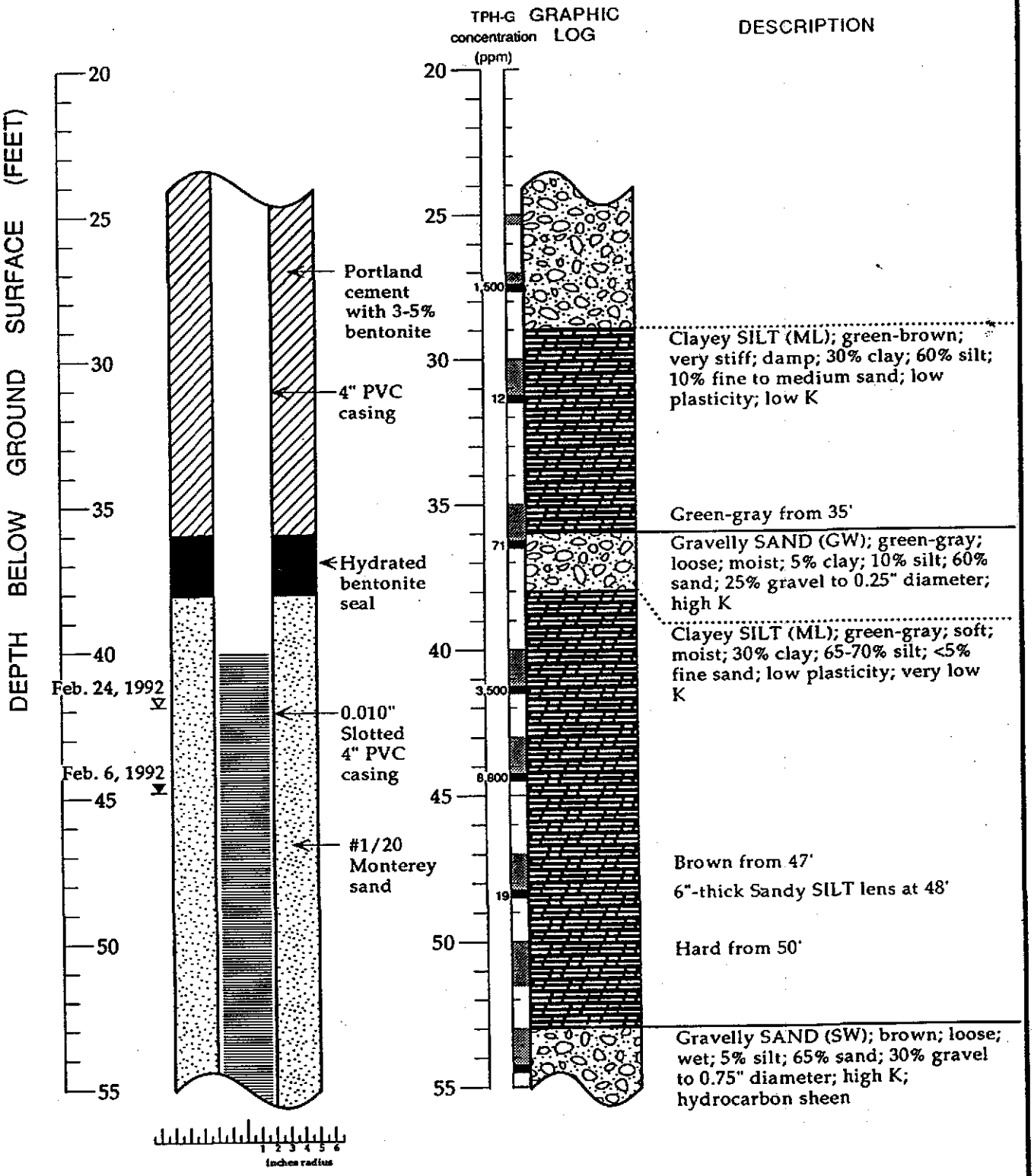
- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Tom Fojut
Supervisor: Joseph P. Theisen; CEG 1645
Drilling Company: Soils Exploration Services, Benicia, CA
License Number: C57-582696
Driller: Courtney Mossman
Drilling Method: Hollow-stem auger
Date Drilled: February 6, 1992
Well Head Completion: 4" locking well-plug, traffic-rated vault
Type of Sampler: Split barrel (2" ID)
Ground Surface Elevation: 67.37 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

2/29/92

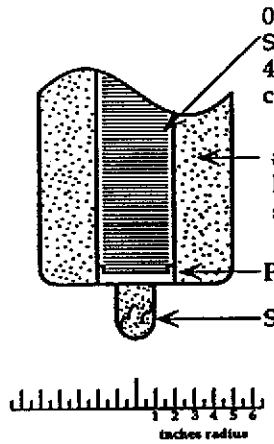
WELL MW-2 (BH-B) (cont.)

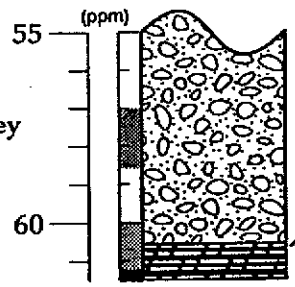


Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

4/10/92

WELL MW-2 (BH-B) (cont.)





DESCRIPTION

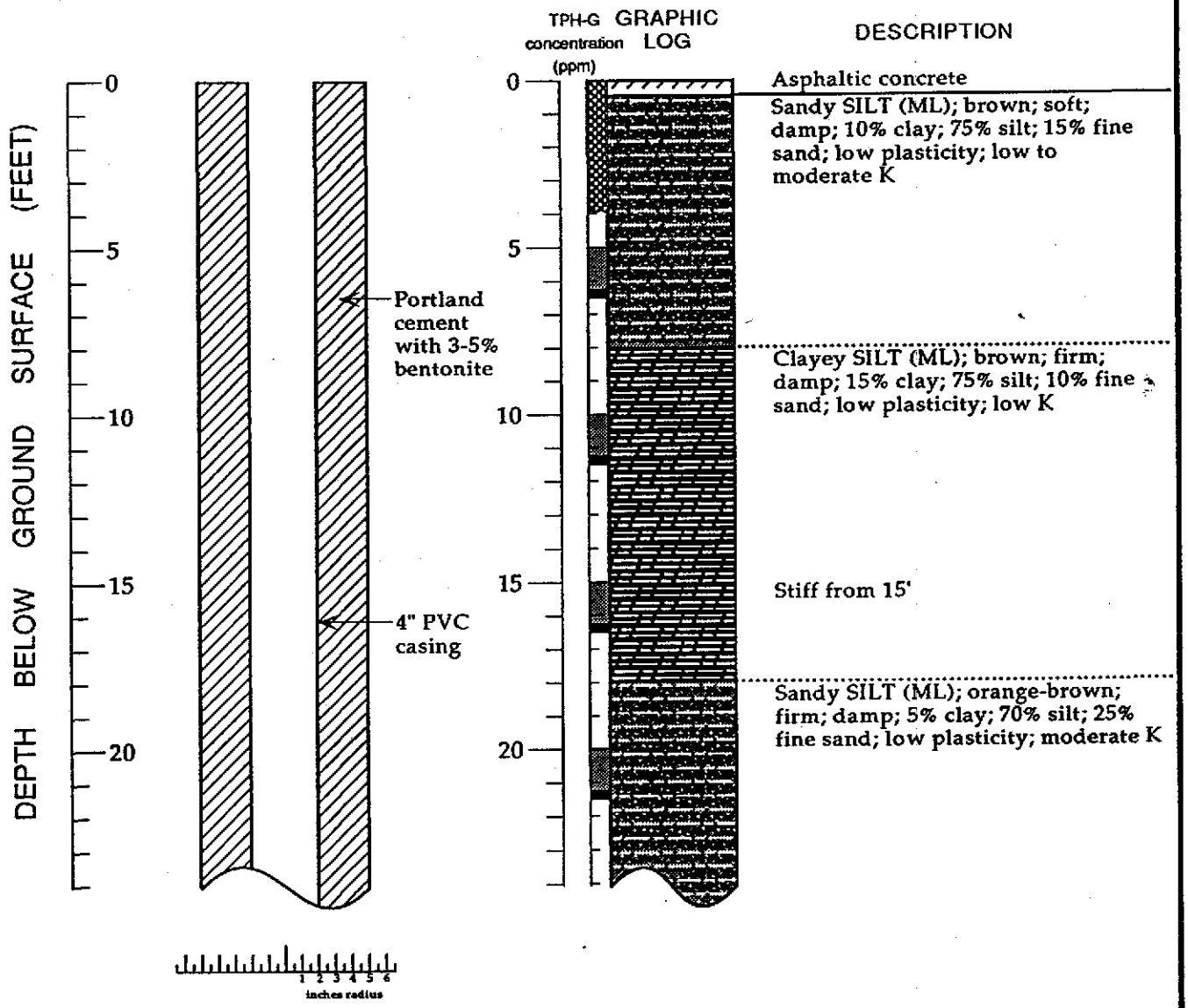
Clayey SILT (ML); brown; firm; 35% clay; 60% silt; 5% fine to medium sand; low plasticity; low K

DEPTH BELOW GROUND SURFACE (FEET)

Boring Log and Well Construction Details - Well MW-2 (BH-B) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

4/10/92

WELL MW-3 (BH-C)



EXPLANATION

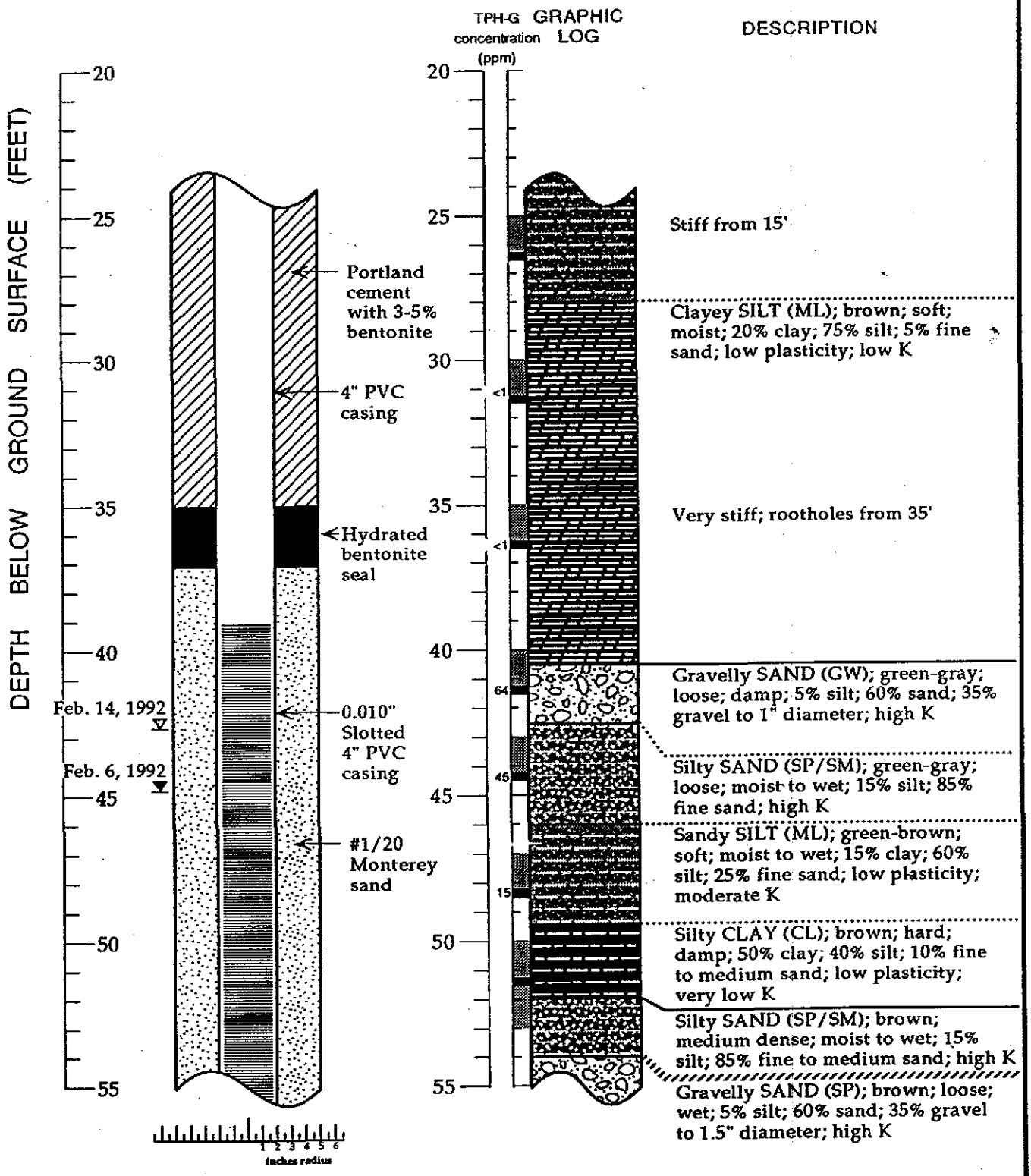
- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Tom Fojut
Supervisor: Joseph P. Theisen; CEG 1645
Drilling Company: Soils Exploration Services, Benicia, CA
License Number: C57-582696
Driller: Courtney Mossman
Drilling Method: Hollow-stem auger
Date Drilled: February 7, 1992
Well Head Completion: 4" locking well-plug, traffic-rated vault
Type of Sampler: Split barrel (1.5", 2" ID)
Ground Surface Elevation: 66.31 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

2/28/92

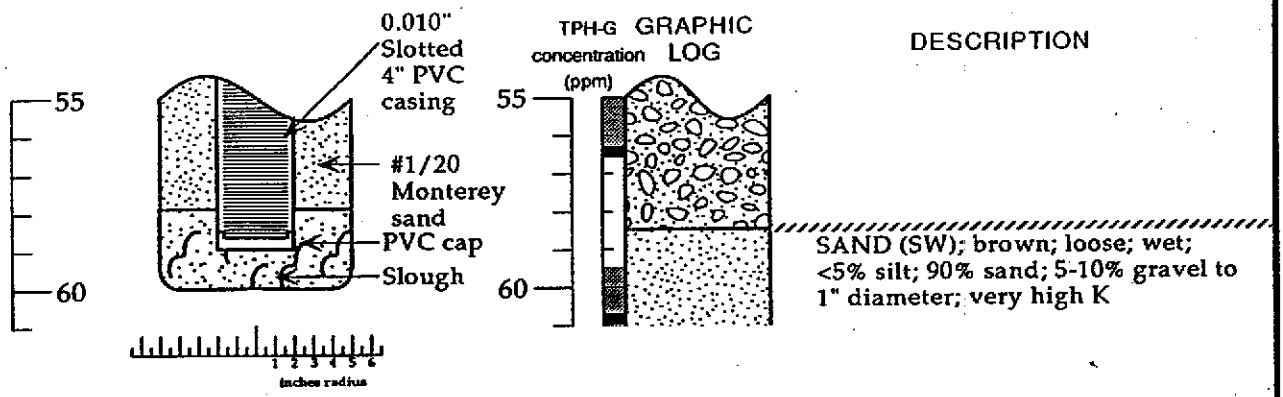
WELL MW-3 (BH-C) (cont.)



Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

2/28/92

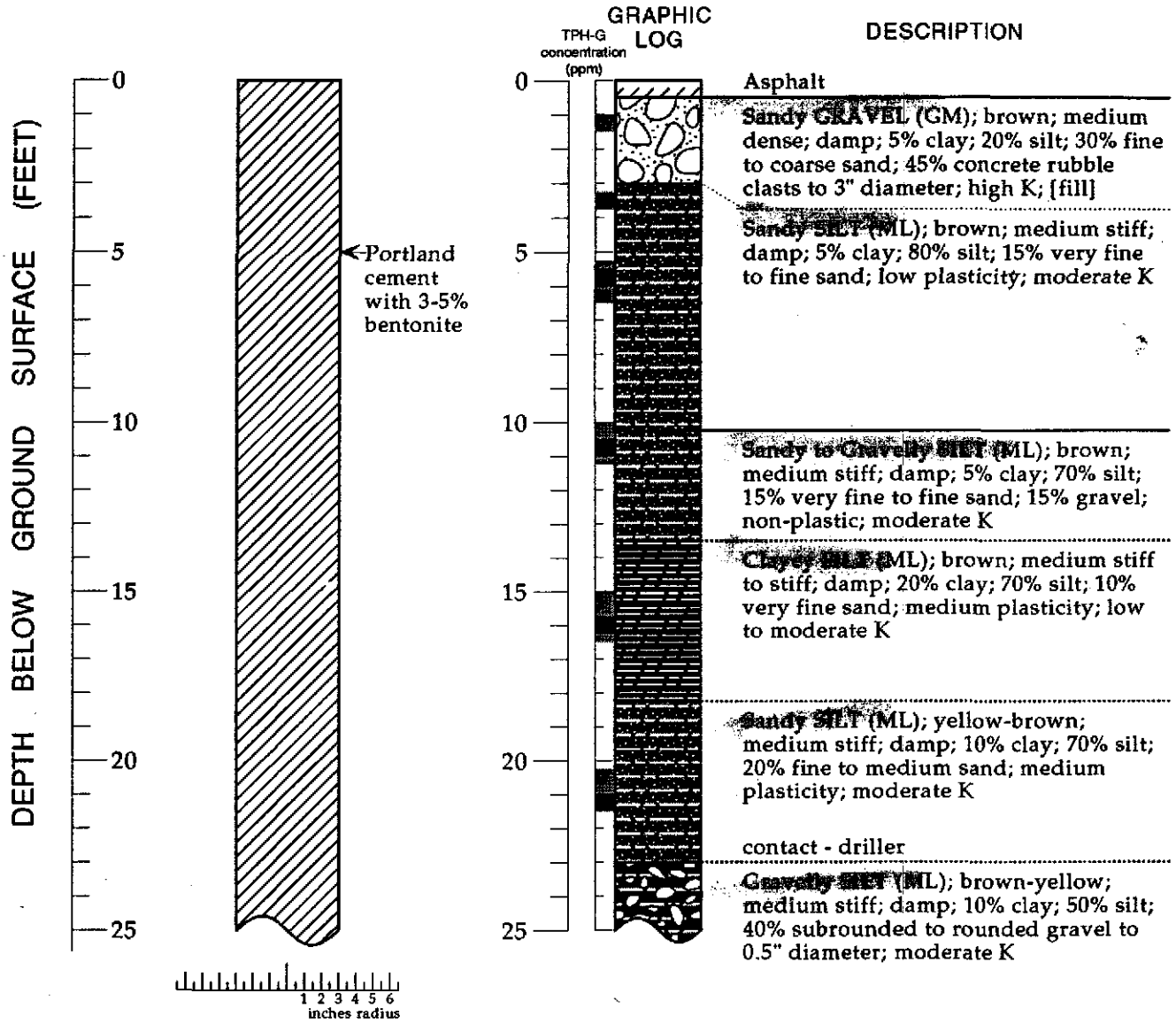
WELL MW-3 (BH-C) (cont.)



Boring Log and Well Construction Details - Well MW-3 (BH-C) - Shell Service Station WIC #204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

4/10/92

BORING BH-D



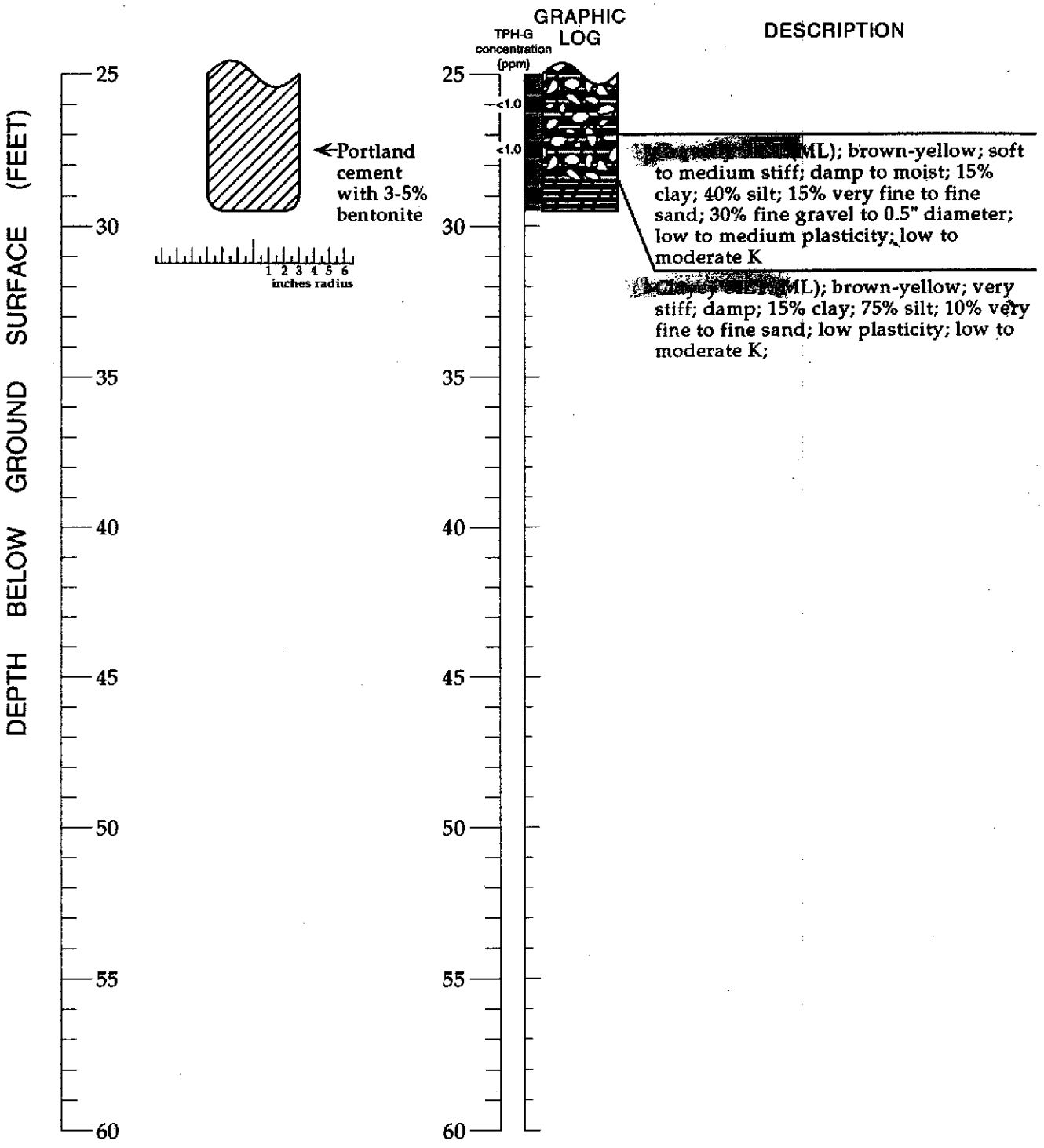
EXPLANATION

- ▼ Water level during drilling (date)
- ▽ Water level (date)
- ——····—— Contact (dotted where approximate)
- —?—?— Uncertain contact
- ////////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Kurt Brücker
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Soils Exploration Services, Vacaville, CA
License Number: Lic. #C57-582696
Driller: Michael Duffy
Drilling Method: Hollow-stem auger
Date Drilled: February 15, 1994
Well Head Completion: N/A
Type of Sampler: Split barrel (2.0" ID)
Ground Surface Elevation: Approx. 67 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

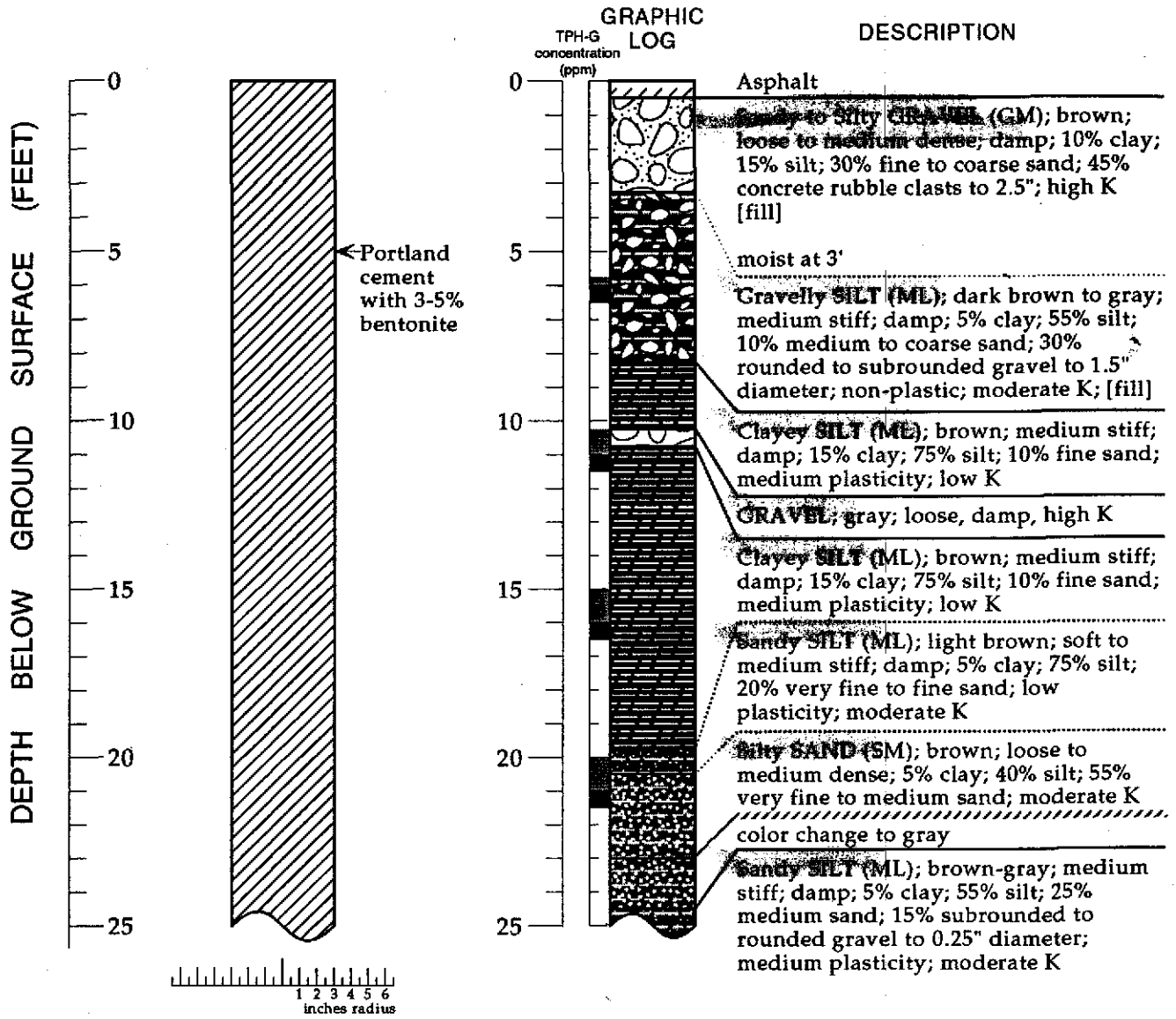
Boring Log - Boring BH-D - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

BORING BH-D (cont.)



Boring Log - Boring BH-D - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

BORING BH-E



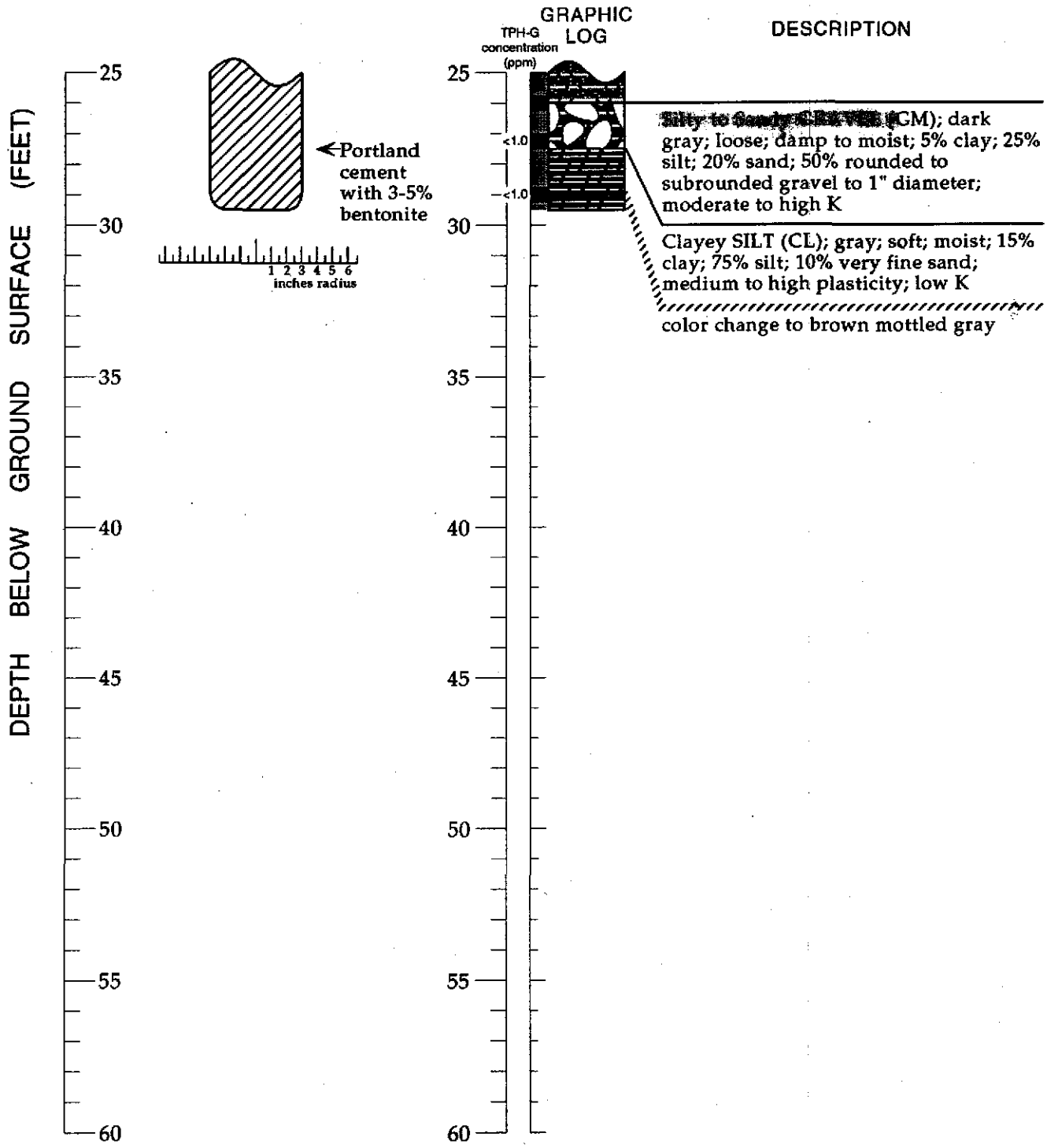
EXPLANATION

- Water level during drilling (date)
- Water level (date)
- Contact (dotted where approximate)
- Uncertain contact
- Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Kurt Brücker
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Soils Exploration Services, Vacaville, CA
License Number: Lic. #C57-582696
Driller: Michael Duffy
Drilling Method: Hollow-stem auger
Date Drilled: February 15, 1994
Well Head Completion: N/A
Type of Sampler: Split barrel (1.5 & 2.0" ID)
Ground Surface Elevation: Approx. 67 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

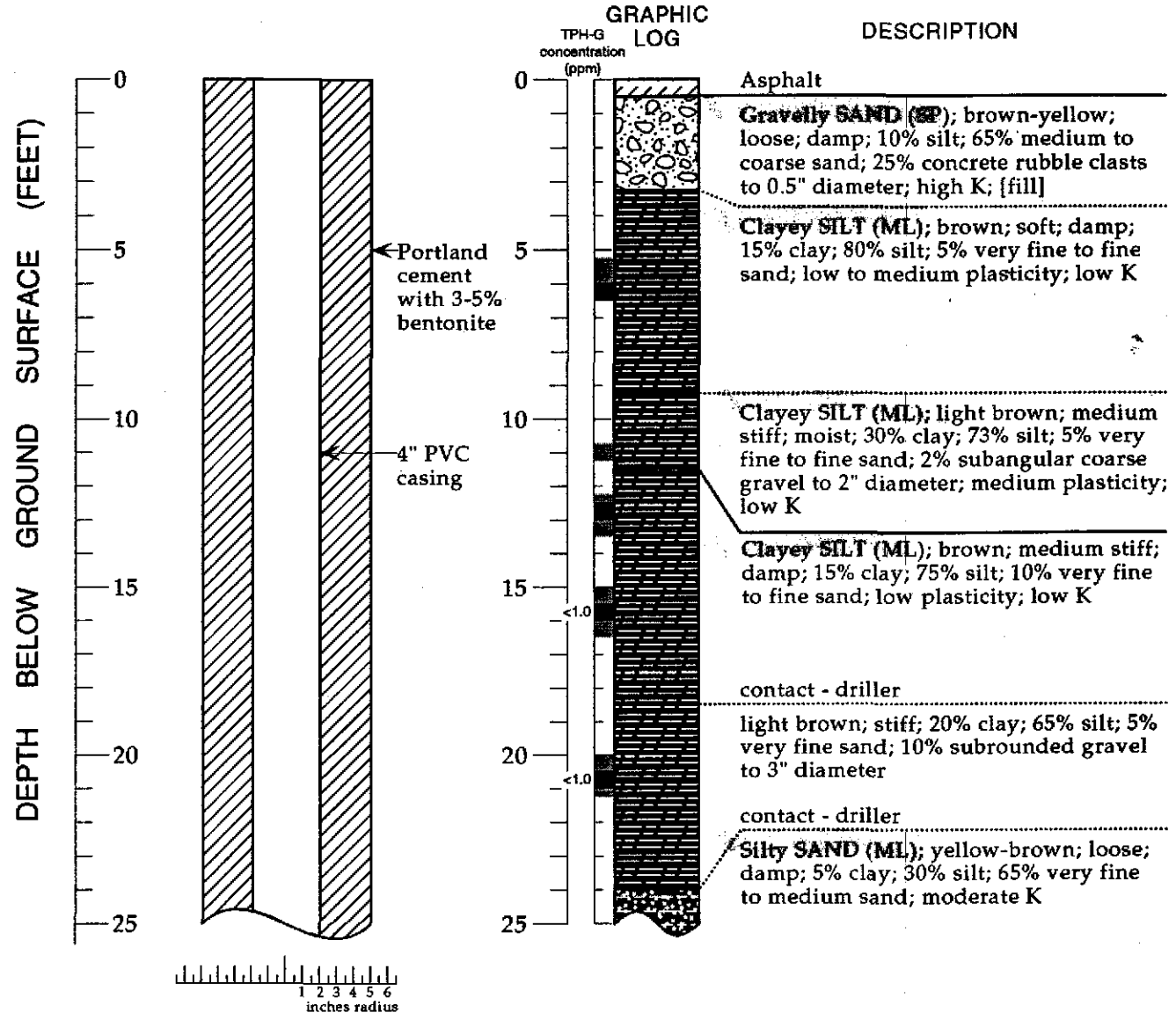
Boring Log - Boring BH-E - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

BORING BH-E (cont.)



Boring Log - Boring BH-E - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

WELL MW-4 (BH-F)



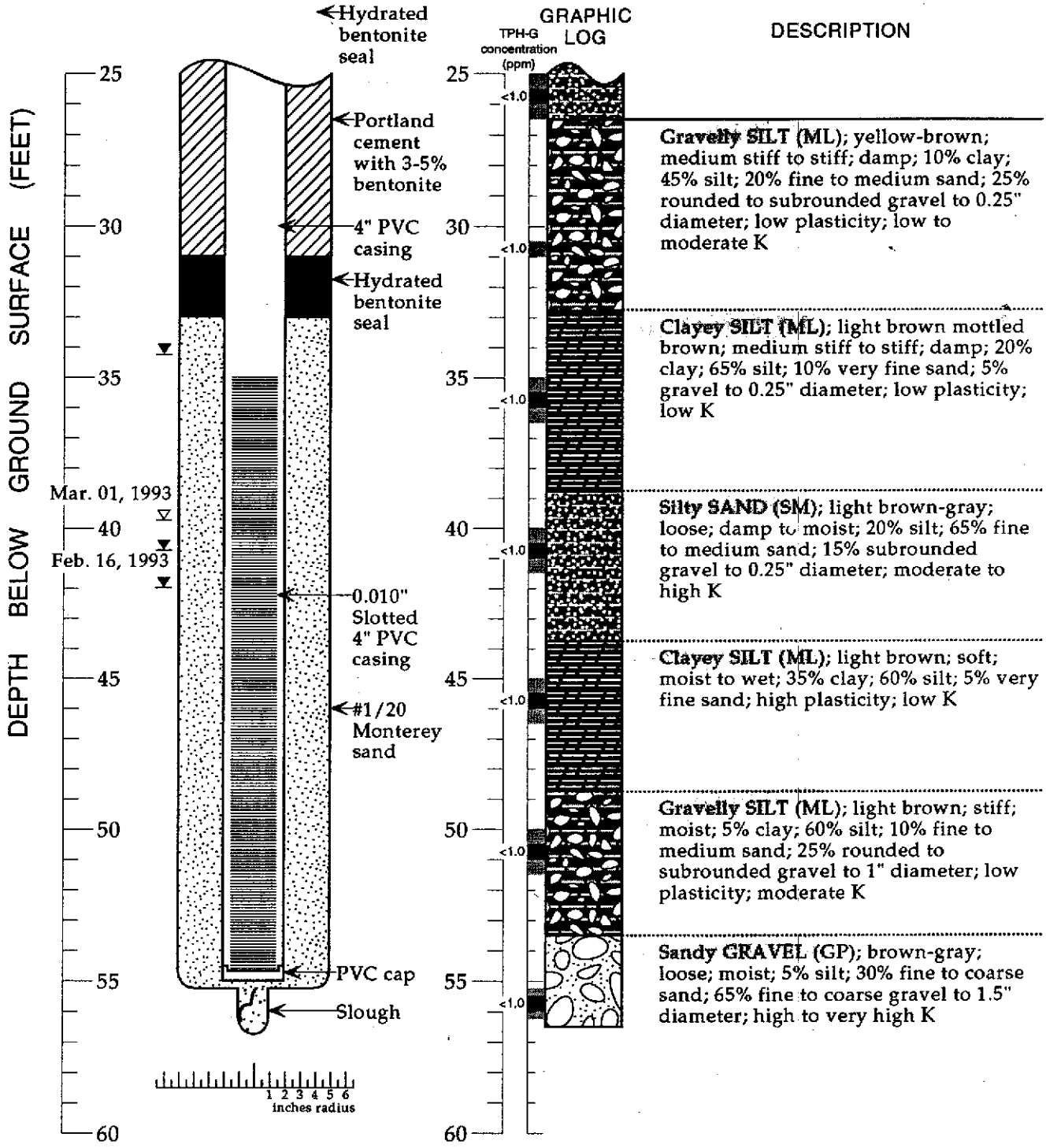
EXPLANATION

- ▼ Water level during drilling (date)
- ▽ Water level (date)
- ——····—— Contact (dotted where approximate)
- —?—?— Uncertain contact
- ////////// Gradational contact
- Location of recovered drive sample
- Location of drive sample sealed for chemical analysis
- Cutting sample
- K = Estimated hydraulic conductivity

Logged By: Kurt Brücker
Supervisor: James W. Carmody; CEG 1576
Drilling Company: Soils Exploration Services, Vacaville, CA
License Number: Lic. #C57-582696
Driller: Michael Duffy
Drilling Method: Hollow-stem auger
Date Drilled: February 16, 1994
Well Head Completion: 4" locking well-plug, traffic-rated vault
Type of Sampler: Split barrel (2.0" ID)
Ground Surface Elevation: 68.8 feet above mean sea level
TPH-G: Total petroleum hydrocarbon as gasoline in soil by modified EPA Method 8015

Boring Log and Well Construction Details - Well MW-4 (BH-F) - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

WELL MW-4 (BH-F) (cont.)



Boring Log and Well Construction Details - Well MW-4 (BH-F) - Shell Service Station, WIC# 204-6852-0703, 1285 Bancroft Avenue, San Leandro, California

ATTACHMENT C

ANALYTIC RESULTS FOR SOIL

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Joe Theisen
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608

Date: 03/02/1994
NET Client Acct. No: 1809
NET Pacific Job No: 94.00669
Received: 02/18/1994

Client Reference Information

1285 Bancroft Ave., San Leandro, Job No. 81-423-03

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Judy Ridley
Project Coordinator

Jim Hoch
Operations Manager

Enclosure(s)

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-D 25.8
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185214

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/23/1994
DILUTION FACTOR*	1						02/23/1994
as Gasoline	ND		1	mg/kg	5030		02/23/1994
METHOD 8020 (GC,Solid)	--						02/23/1994
Benzene	ND		0.0025	mg/kg	8020		02/23/1994
Toluene	ND		0.0025	mg/kg	8020		02/23/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/23/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/23/1994
SURROGATE RESULTS	--						02/23/1994
Bromofluorobenzene (SURR)	95			% Rec.	5030		02/23/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-D 25.8
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185214

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/25/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/25/1994
Bromoform	ND		0.002	mg/kg	8010		02/25/1994
Bromomethane	ND		0.002	mg/kg	8010		02/25/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/25/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Chloroethane	ND		0.002	mg/kg	8010		02/25/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/25/1994
Chloroform	ND		0.002	mg/kg	8010		02/25/1994
Chloromethane	ND		0.002	mg/kg	8010		02/25/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/25/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/25/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/25/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/25/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/25/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/25/1994
SURROGATE RESULTS	--						02/25/1994
1,4-Difluorobenzene (SURR)	248	MI		% Rec.			02/25/1994
1,4-Dichlorobutane (SURR)	82			% Rec.			02/25/1994

MI : Matrix Interference Suspected

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-D 27.3
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185215

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/24/1994
DILUTION FACTOR*	1						02/24/1994
as Gasoline	ND		1	mg/kg	5030		02/24/1994
METHOD 8020 (GC,Solid)	--						02/24/1994
Benzene	ND		0.0025	mg/kg	8020		02/24/1994
Toluene	ND		0.0025	mg/kg	8020		02/24/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/24/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/24/1994
SURROGATE RESULTS	--						02/24/1994
Bromofluorobenzene (SURR)	89			% Rec.	5030		02/24/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-D 27.3
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185215

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/25/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/25/1994
Bromoform	ND		0.002	mg/kg	8010		02/25/1994
Bromomethane	ND		0.002	mg/kg	8010		02/25/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/25/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Chloroethane	ND		0.002	mg/kg	8010		02/25/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/25/1994
Chloroform	ND		0.002	mg/kg	8010		02/25/1994
Chloromethane	ND		0.002	mg/kg	8010		02/25/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/25/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/25/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/25/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/25/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/25/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/25/1994
SURROGATE RESULTS	--						02/25/1994
1,4-Difluorobenzene (SURR)	148	MI		% Rec.			02/25/1994
1,4-Dichlorobutane (SURR)	66			% Rec.			02/25/1994

MI : Matrix Interference Suspected

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-E 27.0
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185222

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/24/1994
DILUTION FACTOR*	1						02/24/1994
as Gasoline	ND		1	mg/kg	5030		02/24/1994
METHOD 8020 (GC,Solid)	--						02/24/1994
Benzene	0.0075	C	0.0025	mg/kg	8020		02/24/1994
Toluene	ND		0.0025	mg/kg	8020		02/24/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/24/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/24/1994
SURROGATE RESULTS	--						02/24/1994
Bromofluorobenzene (SURR)	100			% Rec.	5030		02/24/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

C : Positive result confirmed by secondary column or GC/MS analysis.

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-E 27.0
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185222

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						03/01/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		03/01/1994
Bromoform	ND		0.002	mg/kg	8010		03/01/1994
Bromomethane	ND		0.002	mg/kg	8010		03/01/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		03/01/1994
Chlorobenzene	ND		0.002	mg/kg	8010		03/01/1994
Chloroethane	ND		0.002	mg/kg	8010		03/01/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		03/01/1994
Chloroform	ND		0.002	mg/kg	8010		03/01/1994
Chloromethane	ND		0.002	mg/kg	8010		03/01/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		03/01/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		03/01/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		03/01/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		03/01/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		03/01/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		03/01/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		03/01/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		03/01/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		03/01/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		03/01/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		03/01/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		03/01/1994
Methylene chloride	ND		0.050	mg/kg	8010		03/01/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		03/01/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		03/01/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		03/01/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		03/01/1994
Trichloroethene	ND		0.002	mg/kg	8010		03/01/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		03/01/1994
Vinyl chloride	ND		0.002	mg/kg	8010		03/01/1994
SURROGATE RESULTS	--						03/01/1994
1,4-Difluorobenzene (SURR)	151	MI		% Rec.			03/01/1994
1,4-Dichlorobutane (SURR)	61			% Rec.			03/01/1994

MI : Matrix Interference Suspected

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-E 28.8
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185223

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/24/1994
DILUTION FACTOR*	1						02/24/1994
as Gasoline	ND		1	mg/kg	5030		02/24/1994
METHOD 8020 (GC,Solid)	--						02/24/1994
Benzene	0.015	C	0.0025	mg/kg	8020		02/24/1994
Toluene	ND		0.0025	mg/kg	8020		02/24/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/24/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/24/1994
SURROGATE RESULTS	--						02/24/1994
Bromofluorobenzene (SURR)	87			% Rec.	5030		02/24/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

C : Positive result confirmed by secondary column or GC/MS analysis.

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: BH-E 28.8
Date Taken: 02/15/1994
Time Taken:
NET Sample No: 185223

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/25/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/25/1994
Bromoform	ND		0.002	mg/kg	8010		02/25/1994
Bromomethane	ND		0.002	mg/kg	8010		02/25/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/25/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Chloroethane	ND		0.002	mg/kg	8010		02/25/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/25/1994
Chloroform	ND		0.002	mg/kg	8010		02/25/1994
Chloromethane	ND		0.002	mg/kg	8010		02/25/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/25/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/25/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/25/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/25/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/25/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/25/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/25/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/25/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/25/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/25/1994
SURROGATE RESULTS	--						02/25/1994
1,4-Difluorobenzene (SURR)	128	MI		% Rec.			02/25/1994
1,4-Dichlorobutane (SURR)	77			% Rec.			02/25/1994

MI : Matrix Interference Suspected

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Solid)						
as Gasoline	96.0	4.80	5.00	mg/kg	02/23/1994	lss
Benzene	108.8	27.2	25.0	ug/kg	02/23/1994	lss
Toluene	104.8	26.2	25.0	ug/kg	02/23/1994	lss
Ethylbenzene	106.0	26.5	25.0	ug/kg	02/23/1994	lss
Xylenes (Total)	106.0	79.5	75.0	ug/kg	02/23/1994	lss
Bromofluorobenzene (SURR)	107.0	107	100	% Rec.	02/23/1994	lss
TPH (Gas/BTXE,Solid)						
as Gasoline	98.2	4.91	5.00	mg/kg	02/24/1994	lss
Benzene	101.6	25.4	25.0	ug/kg	02/24/1994	lss
Toluene	96.8	24.2	25.0	ug/kg	02/24/1994	lss
Ethylbenzene	99.6	24.9	25.0	ug/kg	02/24/1994	lss
Xylenes (Total)	96.1	72.1	75.0	ug/kg	02/24/1994	lss
Bromofluorobenzene (SURR)	98.0	98	100	% Rec.	02/24/1994	lss
TPH (Gas/BTXE,Solid)						
as Gasoline	86.2	4.31	5.00	mg/kg	02/25/1994	aal
Benzene	111.2	27.8	25.0	ug/kg	02/25/1994	aal
Toluene	86.4	21.6	25.0	ug/kg	02/25/1994	aal
Ethylbenzene	94.4	23.6	25.0	ug/kg	02/25/1994	aal
Xylenes (Total)	94.8	71.1	75.0	ug/kg	02/25/1994	aal
Bromofluorobenzene (SURR)	97.0	97	100	% Rec.	02/25/1994	aal
METHOD 3550/M8015						
as Diesel	96.3	963	1000	mg/kg	02/24/1994	nds

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)						
Bromodichloromethane	91.0	18.2	20.0	ug/kg	03/01/1994	asm
Bromoform	86.0	17.2	20.0	ug/kg	03/01/1994	asm
Bromomethane	64.0	12.8	20.0	ug/kg	03/01/1994	asm
Carbon tetrachloride	100.0	20.0	20.0	ug/kg	03/01/1994	asm
Chlorobenzene	98.5	19.7	20.0	ug/kg	03/01/1994	asm
Chloroethane	64.0	12.8	20.0	ug/kg	03/01/1994	asm
2-Chloroethylvinyl ether	87.0	17.4	20.0	ug/kg	03/01/1994	asm
Chloroform	98.5	19.7	20.0	ug/kg	03/01/1994	asm
Chloromethane	81.5	16.3	20.0	ug/kg	03/01/1994	asm
Dibromochloromethane	84.0	16.8	20.0	ug/kg	03/01/1994	asm
1,2-Dichlorobenzene	98.0	19.6	20.0	ug/kg	03/01/1994	asm
1,3-Dichlorobenzene	94.5	18.9	20.0	ug/kg	03/01/1994	asm
1,4-Dichlorobenzene	98.0	19.6	20.0	ug/kg	03/01/1994	asm
Dichlorodifluoromethane	77.0	15.4	20.0	ug/kg	03/01/1994	asm
1,1-Dichloroethane	92.0	18.4	20.0	ug/kg	03/01/1994	asm
1,2-Dichloroethane	99.0	19.8	20.0	ug/kg	03/01/1994	asm
1,1-Dichloroethene	72.5	14.5	20.0	ug/kg	03/01/1994	asm
trans-1,2-Dichloroethene	65.5	13.1	20.0	ug/kg	03/01/1994	asm
1,2-Dichloropropane	98.0	19.6	20.0	ug/kg	03/01/1994	asm
cis-1,3-Dichloropropene	98.0	19.6	20.0	ug/kg	03/01/1994	asm
trans-1,3-Dichloropropene	99.0	19.8	20.0	ug/kg	03/01/1994	asm
Methylene chloride	77.0	15.4	20.0	ug/kg	03/01/1994	asm
1,1,2,2-Tetrachloroethane	100.0	20.0	20.0	ug/kg	03/01/1994	asm
Tetrachloroethene	101.0	20.2	20.0	ug/kg	03/01/1994	asm
1,1,1-Trichloroethane	97.0	19.4	20.0	ug/kg	03/01/1994	asm
1,1,2-Trichloroethane	103.0	20.6	20.0	ug/kg	03/01/1994	asm
Trichloroethene	99.5	19.9	20.0	ug/kg	03/01/1994	asm
Trichlorofluoromethane	80.5	16.1	20.0	ug/kg	03/01/1994	asm
Vinyl chloride	81.5	16.3	20.0	ug/kg	03/01/1994	asm
1,4-Difluorobenzene (SURR)	87.0	87	100	% Rec.	03/01/1994	asm
1,4-Dichlorobutane (SURR)	90.0	90	100	% Rec.	03/01/1994	asm

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	ND	50	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	ND	50	mg/kg	02/25/1994	pbg
TPH (Gas/BTXE,Solid)					
as Gasoline	ND	1	mg/kg	02/23/1994	lss
Benzene	ND	2.5	ug/kg	02/23/1994	lss
Toluene	ND	2.5	ug/kg	02/23/1994	lss
Ethylbenzene	ND	2.5	ug/kg	02/23/1994	lss
Xylenes (Total)	ND	2.5	ug/kg	02/23/1994	lss
Bromofluorobenzene (SURR)	108		% Rec.	02/23/1994	lss
TPH (Gas/BTXE,Solid)					
as Gasoline	ND	1	mg/kg	02/24/1994	lss
Benzene	ND	2.5	ug/kg	02/24/1994	lss
Toluene	ND	2.5	ug/kg	02/24/1994	lss
Ethylbenzene	ND	2.5	ug/kg	02/24/1994	lss
Xylenes (Total)	ND	2.5	ug/kg	02/24/1994	lss
Bromofluorobenzene (SURR)	101		% Rec.	02/24/1994	lss
TPH (Gas/BTXE,Solid)					
as Gasoline	ND	1	mg/kg	02/25/1994	aal
Benzene	ND	2.5	ug/kg	02/25/1994	aal
Toluene	ND	2.5	ug/kg	02/25/1994	aal
Ethylbenzene	ND	2.5	ug/kg	02/25/1994	aal
Xylenes (Total)	ND	2.5	ug/kg	02/25/1994	aal
Bromofluorobenzene (SURR)	106		% Rec.	02/25/1994	aal
METHOD 3550/M8015					
as Diesel	ND	1	mg/kg	02/24/1994	nds

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)					
Bromodichloromethane	ND	2.0	ug/kg	03/01/1994	asm
Bromoform	ND	2.0	ug/kg	03/01/1994	asm
Bromomethane	ND	2.0	ug/kg	03/01/1994	asm
Carbon tetrachloride	ND	2.0	ug/kg	03/01/1994	asm
Chlorobenzene	ND	2.0	ug/kg	03/01/1994	asm
Chloroethane	ND	2.0	ug/kg	03/01/1994	asm
2-Chloroethylvinyl ether	ND	5.0	ug/kg	03/01/1994	asm
Chloroform	ND	2.0	ug/kg	03/01/1994	asm
Chloromethane	ND	2.0	ug/kg	03/01/1994	asm
Dibromochloromethane	ND	2.0	ug/kg	03/01/1994	asm
1,2-Dichlorobenzene	ND	2.0	ug/kg	03/01/1994	asm
1,3-Dichlorobenzene	ND	2.0	ug/kg	03/01/1994	asm
1,4-Dichlorobenzene	ND	2.0	ug/kg	03/01/1994	asm
Dichlorodifluoromethane	ND	2.0	ug/kg	03/01/1994	asm
1,1-Dichloroethane	ND	2.0	ug/kg	03/01/1994	asm
1,2-Dichloroethane	ND	2.0	ug/kg	03/01/1994	asm
1,1-Dichloroethene	ND	2.0	ug/kg	03/01/1994	asm
trans-1,2-Dichloroethene	ND	2.0	ug/kg	03/01/1994	asm
1,2-Dichloropropane	ND	2.0	ug/kg	03/01/1994	asm
cis-1,3-Dichloropropene	ND	2.0	ug/kg	03/01/1994	asm
trans-1,3-Dichloropropene	ND	2.0	ug/kg	03/01/1994	asm
Methylene chloride	ND	50	ug/kg	03/01/1994	asm
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	03/01/1994	asm
Tetrachloroethene	ND	2.0	ug/kg	03/01/1994	asm
1,1,1-Trichloroethane	ND	2.0	ug/kg	03/01/1994	asm
1,1,2-Trichloroethane	ND	2.0	ug/kg	03/01/1994	asm
Trichloroethene	ND	2.0	ug/kg	03/01/1994	asm
Trichlorofluoromethane	ND	2.0	ug/kg	03/01/1994	asm
Vinyl chloride	ND	2.0	ug/kg	03/01/1994	asm
1,4-Difluorobenzene (SURR)	90		% Rec.	03/01/1994	asm
1,4-Dichlorobutane (SURR)	85		% Rec.	03/01/1994	asm

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	89.4	99.1	10.3	2,879	ND	2,573	2,641	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	89.4	99.1	10.3	2,879	ND	2,573	2,641	mg/kg	02/25/1994	pbg
TPH (Gas/BTXE,Solid)										
as Gasoline	106.8	104.6	2.1	5.00	ND	5.34	5.23	mg/kg	02/23/1994	lss
Benzene	109.0	110.7	1.5	178	ND	194	197	ug/kg	02/23/1994	lss
Toluene	110.3	111.1	0.7	503	ND	555	559	ug/kg	02/23/1994	lss
TPH (Gas/BTXE,Solid)										
as Gasoline	106.0	99.0	6.7	5.00	ND	5.30	4.95	mg/kg	02/24/1994	lss
Benzene	105.9	101.6	4.1	186	ND	197	189	ug/kg	02/24/1994	lss
Toluene	114.2	109.4	4.3	487	ND	556	533	ug/kg	02/24/1994	lss
TPH (Gas/BTXE,Solid)										
as Gasoline	86.0	75.2	13.4	5.00	ND	4.30	3.76	mg/kg	02/25/1994	aal
Benzene	101.3	94.0	7.4	149	ND	151	140	ug/kg	02/25/1994	aal
Toluene	101.9	97.2	4.6	316	ND	322	307	ug/kg	02/25/1994	aal
METHOD 3550/M8015										
as Diesel	66.5	98.2	38.5	16.7	ND	11.1	16.4	mg/kg	02/24/1994	nds

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)										
Chlorobenzene	93.3	89.1	4.6	88.5	ND	82.6	81.0	ug/kg	03/01/1994	asm
1,1-Dichloroethene	63.6	62.6	1.6	88.5	ND	56.3	56.9	ug/kg	03/01/1994	asm
Trichloroethene	95.3	99.3	4.1	88.5	ND	84.3	90.3	ug/kg	03/01/1994	asm

Ref: 1285 Bancroft Ave., San Leandro, Job No. 81-423-03

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	99.7		2,874	2,882	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	99.7		2,874	2,882	mg/kg	02/25/1994	pbg
METHOD 3550/M8015 as Diesel	95.8		16.0	16.7	mg/kg	02/24/1994	nds

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. **Do not** multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than the applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993
abb.93

COOLER RECEIPT FORM

Project: Shell, San Leandro, 81-423-03 Log No: 7997
Cooler received on: 2-18-94 and checked on 2-18-94 by J. Sorensen
(signature)

Were custody papers present?..... (YES) NO

Were custody papers properly filled out?..... (YES) NO

Were the custody papers signed?..... (YES) NO

Was sufficient ice used?..... (YES) NO -0.4°C

Did all bottles arrive in good condition (unbroken)?..... (YES) NO

Did bottle labels match COC?..... (YES) NO

Were proper bottles used for analysis indicated?..... (YES) NO

Correct preservatives used?..... (YES) NO Cold

VOA vials checked for headspace bubbles?..... YES NO N/A
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis..... YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD

Serial No: 7997

Date: 2/15/94

Page 1 of 2

Site Address: 1285 Bancroft Ave, San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk

Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB # 81-423-03

Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: [signature]

Printed Name: Kurt Bruecker

LAB: UET

Analysis Required

CHECK ONE (1) BOX ONLY — CT/DT:
- [ ] G.W. Monitoring 4461
- [X] Site Investigation 4441
- [ ] Soil Classify/Disposal 4442
- [ ] Water Classify/Disposal 4443
- [ ] Soil/Air Rem. or Sys. O & M 4452
- [ ] Water Rem. or Sys. O & M 4453
- [ ] Other

TURN AROUND TIME:
- [ ] 24 hours
- [ ] 48 hours
- [X] 15 days (Normal)
- [ ] Other

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-D 5.6	2/15		X			1						X							Soil	
BH-D 10.6	2/15		X			1						X							Soil	
BH-D 15.8	2/15		X			1						X							Soil	
BH-D 21.2	2/15		X			1						X							Soil	
BH-D 25.8	2/15		X			1						X							Soil	
BH-D 27.3	2/15		X			1						X							Soil	2/17/94 GP Lumbre seal intact
BH-D 28.8	2/15		X			1						X							Soil	

Relinquished By (signature)	Printed Name	Date / Time	Received (signature)	Printed Name	Date / Time
[signature]	Kurt Bruecker	Date: 2/15 Time: 1715	[signature]	GP LUMBRE	Date: 2/17/94 Time: 13:45
[signature]	GP LUMBRE	Date: 2/17/94 Time: 18:30			Date: Time:
(VIA NCS)		Date: Time:	[signature]	K. Temple	Date: 2/18/94 Time: 0800

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/93

Shell Oil Chn. of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 7997

Date: 2/15/94
Page 2 of 2

Site Address: 1285 Bancroft Ave., San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by:

Printed Name: Kurt Bruecker

LAB: NET

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☒	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME: 24 hours ☐; 48 hours ☐; 15 days ☒ (Normal); Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ____

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-E 6.0	2/15		X			1						X							Soil	
BH-E 11.0	2/15		X			1						X							Soil	
BH-E 16.0	2/15		X			1						X							Soil	
BH-E 21.0	2/15		X			1						X							Soil	
BH-E 25.8	2/15		X			1						X							Soil	
BH-E 27.0	2/15		X			1						X							Soil	2/17/94 GP Lumbers per instructions
BH E 28.8	2/15		X			1						X							Soil	

Relinquished By (signature):	Printed Name: Kurt Bruecker	Date: 2/15 Time: 1715	Received (signature):	Printed Name: GP Lumbers	Date: 2/17/94 Time: 13:45
Relinquished By (signature):	Printed Name: GP Lumbers	Date: 2/17/94 Time: 13:30	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature): (VIA NCS)	Printed Name:	Date: Time:	Received (signature):	Printed Name: K. Temple	Date: 2/18/94 Time: 0800

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 2/15/94
Page 1 of 2

Site Address: 1285 Bancroft Ave, San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-2168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB # 81-423-03
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: Kurt Brueckes

Printed Name: Kurt Brueckes

LAB: NET

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☒	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME
24 hours ☐
48 hours ☐
15 days ☒ (Normal)
Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: _____

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of cont.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	4 VOC (8010)	POG (5520 E&F)	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-D 5.6	2/15		X			1													Soil	HOLD
BH-D 10.6	2/15		X			1													Soil	HOLD
BH-D 15.8	2/15		X			1													Soil	HOLD
BH-D 21.2	2/15		X			1													Soil	HOLD
BH-D 25.8	2/15		X			1		X				X	X	X					Soil	
BH-D 27.3	2/15		X			1		X				X	X	X					Soil	
BH-D 28.8	2/15		X			1													Soil	HOLD

Relinquished By (signature): Kurt Brueckes	Printed Name: Kurt Brueckes	Date: 2/15 Time: 1515	Received (signature): G. Lumbre	Printed Name: G. LUMBRE	Date: 2/17/94 Time: 13:45
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/7/93

Shell Oil Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: _____

Date: 2/15/94
Page 2 of 2

Site Address: 1285 Bancroft Ave., San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: [signature]

Printed Name: Kurt Kruecker

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT	TURN AROUND TIME
G.W. Monitoring	4461	24 hours
Site Investigation	4481	48 hours
Soil Classify/Disposal	4442	15 days (Normal)
Water Classify/Disposal	4443	Other
Soil/Air Rem. or Sys. O & M	4452	NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT
Water Rem. or Sys. O & M	4453	
Other		

UST AGENCY: _____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	HVOC (8010)	ROG (SS20 E&T)	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
BH-E 6.0	2/15		X			1													Soil	HOLD
BH-E 11.0	2/15		X			1													Soil	HOLD
BH-E 16.0	2/15		X			1													Soil	HOLD
BH-E 21.0	2/15		X			1													Soil	HOLD
BH-E 25.8	2/15		X			1													Soil	HOLD
BH-E 27.0	2/15		X			1		X				X	X	X					Soil	
BH E 28.8	2/15		X			1		X				X	X	X					Soil	

Relinquished By (signature): [signature]	Printed Name: Kurt Kruecker	Date: 2/15 Time: 1715	Received (signature): [signature]	Printed Name: [illegible]	Date: 2/17/94 Time: 13:45
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/1/93

Shell Oil Chain of Custody

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Rick Milleli
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608

Date: 03/03/1994
NET Client Acct. No: 1809
NET Pacific Job No: 94.00672
Received: 02/18/1994

Client Reference Information

SHELL, 1285 Bancroft Ave., San Leandro

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Lisa DeMartini FOR:
Judy Ridley
Project Coordinator

for
Jim Hoch
Operations Manager

Enclosure(s)

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 15.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185231

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	84			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 15.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185231

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	86			% Rec.			02/27/1994
Bromochloromethane (SURR)	77			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 20.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185232

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	87			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 20.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185232

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	89			% Rec.			02/27/1994
Bromochloromethane (SURR)	82			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 25.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185233

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	88			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 25.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185233

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	70			% Rec.			02/27/1994
Bromochloromethane (SURR)	65			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 30.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185234

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	87			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 30.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185234

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	94			% Rec.			02/27/1994
Bromochloromethane (SURR)	78			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 35.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185235

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	84			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 35.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185235

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	68			% Rec.			02/27/1994
Bromochloromethane (SURR)	61			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 40.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185236

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	92			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 40.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185236

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/28/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/28/1994
Bromoform	ND		0.002	mg/kg	8010		02/28/1994
Bromomethane	ND		0.002	mg/kg	8010		02/28/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/28/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/28/1994
Chloroethane	ND		0.002	mg/kg	8010		02/28/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/28/1994
Chloroform	ND		0.002	mg/kg	8010		02/28/1994
Chloromethane	ND		0.002	mg/kg	8010		02/28/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/28/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/28/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/28/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/28/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/28/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/28/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/28/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/28/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/28/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/28/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/28/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/28/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/28/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/28/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/28/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/28/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/28/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/28/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/28/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/28/1994
SURROGATE RESULTS	--						02/28/1994
1,4-Difluorobenzene (SURR)	106			% Rec.			02/28/1994
Bromochloromethane (SURR)	78			% Rec.			02/28/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 45.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185237

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	90			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 45.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185237

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	92			% Rec.			02/27/1994
1,4-Dichlorobutane (SURR)	78			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 50.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185238

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	79			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 50.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185238

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	96			% Rec.			02/27/1994
Bromochloromethane (SURR)	79			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 55.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185239

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (Total)	ND		50	mg/kg	5520E		02/25/1994
Oil & Grease (Non-Polar)	ND		50	mg/kg	5520E/F		02/25/1994
TPH (Gas/BTXE,Solid)							
METHOD 5030/M8015	--						02/21/1994
DILUTION FACTOR*	1						02/21/1994
as Gasoline	ND		1	mg/kg	5030		02/21/1994
METHOD 8020 (GC,Solid)	--						02/21/1994
Benzene	ND		0.0025	mg/kg	8020		02/21/1994
Toluene	ND		0.0025	mg/kg	8020		02/21/1994
Ethylbenzene	ND		0.0025	mg/kg	8020		02/21/1994
Xylenes (Total)	ND		0.0025	mg/kg	8020		02/21/1994
SURROGATE RESULTS	--						02/21/1994
Bromofluorobenzene (SURR)	91			% Rec.	5030		02/21/1994
METHOD 3550/M8015						02/24/1994	
DILUTION FACTOR*	1						02/24/1994
as Diesel	ND		1	mg/kg	3550		02/24/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

SAMPLE DESCRIPTION: MW-4 55.5
Date Taken: 02/16/1994
Time Taken:
NET Sample No: 185239

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 8010 (GC,Solid)							
DILUTION FACTOR*	1						02/27/1994
Bromodichloromethane	ND		0.002	mg/kg	8010		02/27/1994
Bromoform	ND		0.002	mg/kg	8010		02/27/1994
Bromomethane	ND		0.002	mg/kg	8010		02/27/1994
Carbon tetrachloride	ND		0.002	mg/kg	8010		02/27/1994
Chlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Chloroethane	ND		0.002	mg/kg	8010		02/27/1994
2-Chloroethylvinyl ether	ND		0.005	mg/kg	8010		02/27/1994
Chloroform	ND		0.002	mg/kg	8010		02/27/1994
Chloromethane	ND		0.002	mg/kg	8010		02/27/1994
Dibromochloromethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,3-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
1,4-Dichlorobenzene	ND		0.002	mg/kg	8010		02/27/1994
Dichlorodifluoromethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,2-Dichloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,2-Dichloropropane	ND		0.002	mg/kg	8010		02/27/1994
cis-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
trans-1,3-Dichloropropene	ND		0.002	mg/kg	8010		02/27/1994
Methylene chloride	ND		0.050	mg/kg	8010		02/27/1994
1,1,2,2-Tetrachloroethane	ND		0.002	mg/kg	8010		02/27/1994
Tetrachloroethene	ND		0.002	mg/kg	8010		02/27/1994
1,1,1-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
1,1,2-Trichloroethane	ND		0.002	mg/kg	8010		02/27/1994
Trichloroethene	ND		0.002	mg/kg	8010		02/27/1994
Trichlorofluoromethane	ND		0.002	mg/kg	8010		02/27/1994
Vinyl chloride	ND		0.002	mg/kg	8010		02/27/1994
SURROGATE RESULTS	--						02/27/1994
1,4-Difluorobenzene (SURR)	76			% Rec.			02/27/1994
Bromochloromethane (SURR)	63			% Rec.			02/27/1994

Ref: SHELL, 1285 Bancroft Ave., San Leandro

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
TPH (Gas/BTXE,Solid)						
as Gasoline	113.6	5.68	5.00	mg/kg	02/21/1994	jmh
Benzene	93.2	23.3	25.0	ug/kg	02/21/1994	jmh
Toluene	87.6	21.9	25.0	ug/kg	02/21/1994	jmh
Ethylbenzene	90.8	22.7	25.0	ug/kg	02/21/1994	jmh
Xylenes (Total)	92.9	69.7	75.0	ug/kg	02/21/1994	jmh
Bromofluorobenzene (SURR)	96.0	96	100	% Rec.	02/21/1994	jmh
METHOD 3550/M8015						
as Diesel	96.3	963	1000	mg/kg	02/24/1994	nds

Ref: SHELL, 1285 Bancroft Ave., San Leandro

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)						
Bromodichloromethane	91.5	18.3	20.0	ug/kg	02/27/1994	nds
Bromoform	81.0	16.2	20.0	ug/kg	02/27/1994	nds
Bromomethane	72.5	14.5	20.0	ug/kg	02/27/1994	nds
Carbon tetrachloride	90.0	18.0	20.0	ug/kg	02/27/1994	nds
Chlorobenzene	89.5	17.9	20.0	ug/kg	02/27/1994	nds
Chloroethane	68.5	13.7	20.0	ug/kg	02/27/1994	nds
2-Chloroethylvinyl ether	81.0	16.2	20.0	ug/kg	02/27/1994	nds
Chloroform	98.0	19.6	20.0	ug/kg	02/27/1994	nds
Chloromethane	85.5	17.1	20.0	ug/kg	02/27/1994	nds
Dibromochloromethane	83.5	16.7	20.0	ug/kg	02/27/1994	nds
1,2-Dichlorobenzene	98.5	19.7	20.0	ug/kg	02/27/1994	nds
1,3-Dichlorobenzene	99.5	19.9	20.0	ug/kg	02/27/1994	nds
1,4-Dichlorobenzene	99.5	19.9	20.0	ug/kg	02/27/1994	nds
1,1-Dichloroethane	95.0	19.0	20.0	ug/kg	02/27/1994	nds
1,2-Dichloroethane	90.5	18.1	20.0	ug/kg	02/27/1994	nds
1,1-Dichloroethene	91.0	18.2	20.0	ug/kg	02/27/1994	nds
trans-1,2-Dichloroethene	90.0	18.0	20.0	ug/kg	02/27/1994	nds
1,2-Dichloropropane	80.0	16.0	20.0	ug/kg	02/27/1994	nds
cis-1,3-Dichloropropene	82.5	16.5	20.0	ug/kg	02/27/1994	nds
trans-1,3-Dichloropropene	83.5	16.7	20.0	ug/kg	02/27/1994	nds
Methylene chloride	97.0	19.4	20.0	ug/kg	02/27/1994	nds
1,1,2,2-Tetrachloroethane	93.0	18.6	20.0	ug/kg	02/27/1994	nds
Tetrachloroethene	93.0	18.6	20.0	ug/kg	02/27/1994	nds
1,1,1-Trichloroethane	85.0	17.0	20.0	ug/kg	02/27/1994	nds
1,1,2-Trichloroethane	83.5	16.7	20.0	ug/kg	02/27/1994	nds
Trichloroethene	80.5	16.1	20.0	ug/kg	02/27/1994	nds
Trichlorofluoromethane	87.0	17.4	20.0	ug/kg	02/27/1994	nds
Vinyl chloride	82.5	16.5	20.0	ug/kg	02/27/1994	nds
1,4-Difluorobenzene (SURR)	106.0	106	100	% Rec.	02/27/1994	nds
Bromochloromethane (SURR)	94.0	94	100	% Rec.	02/27/1994	nds

Ref: SHELL, 1285 Bancroft Ave., San Leandro

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)						
Bromodichloromethane	99.0	19.8	20.0	ug/kg	02/28/1994	asm
Bromoform	86.5	17.3	20.0	ug/kg	02/28/1994	asm
Bromomethane	94.5	18.9	20.0	ug/kg	02/28/1994	asm
Carbon tetrachloride	95.5	19.1	20.0	ug/kg	02/28/1994	asm
Chlorobenzene	95.5	19.1	20.0	ug/kg	02/28/1994	asm
Chloroethane	77.0	15.4	20.0	ug/kg	02/28/1994	asm
2-Chloroethylvinyl ether	77.5	15.5	20.0	ug/kg	02/28/1994	asm
Chloroform	97.0	19.4	20.0	ug/kg	02/28/1994	asm
Chloromethane	103.0	20.6	20.0	ug/kg	02/28/1994	asm
Dibromochloromethane	98.0	19.6	20.0	ug/kg	02/28/1994	asm
1,2-Dichlorobenzene	92.0	18.4	20.0	ug/kg	02/28/1994	asm
1,3-Dichlorobenzene	94.5	18.9	20.0	ug/kg	02/28/1994	asm
1,4-Dichlorobenzene	96.5	19.3	20.0	ug/kg	02/28/1994	asm
1,1-Dichloroethane	97.0	19.4	20.0	ug/kg	02/28/1994	asm
1,2-Dichloroethane	99.0	19.8	20.0	ug/kg	02/28/1994	asm
1,1-Dichloroethene	97.0	19.4	20.0	ug/kg	02/28/1994	asm
trans-1,2-Dichloroethene	97.0	19.4	20.0	ug/kg	02/28/1994	asm
1,2-Dichloropropane	91.5	18.3	20.0	ug/kg	02/28/1994	asm
cis-1,3-Dichloropropene	93.5	18.7	20.0	ug/kg	02/28/1994	asm
trans-1,3-Dichloropropene	98.0	19.6	20.0	ug/kg	02/28/1994	asm
Methylene chloride	93.0	18.6	20.0	ug/kg	02/28/1994	asm
1,1,2,2-Tetrachloroethane	99.0	19.8	20.0	ug/kg	02/28/1994	asm
Tetrachloroethene	99.0	19.8	20.0	ug/kg	02/28/1994	asm
1,1,1-Trichloroethane	93.5	18.7	20.0	ug/kg	02/28/1994	asm
1,1,2-Trichloroethane	98.0	19.6	20.0	ug/kg	02/28/1994	asm
Trichloroethene	99.0	19.8	20.0	ug/kg	02/28/1994	asm
Trichlorofluoromethane	93.0	18.6	20.0	ug/kg	02/28/1994	asm
Vinyl chloride	100.5	20.1	20.0	ug/kg	02/28/1994	asm
1,4-Difluorobenzene (SURR)	123.0	123	100	% Rec.	02/28/1994	asm
Bromochloromethane (SURR)	93.0	93	100	% Rec.	02/28/1994	asm

Ref: SHELL, 1285 Bancroft Ave., San Leandro

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	ND	50	mg/kg	02/25/1994	pbg
Oil & Grease (Total)	ND	50	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	ND	50	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	ND	50	mg/kg	02/25/1994	pbg
TPH (Gas/BTXE,Solid)					
as Gasoline	ND	1	mg/kg	02/21/1994	jmh
Benzene	ND	2.5	ug/kg	02/21/1994	jmh
Toluene	ND	2.5	ug/kg	02/21/1994	jmh
Ethylbenzene	ND	2.5	ug/kg	02/21/1994	jmh
Xylenes (Total)	ND	2.5	ug/kg	02/21/1994	jmh
Bromofluorobenzene (SURR)	101		% Rec.	02/21/1994	jmh
METHOD 3550/M8015					
as Diesel	ND	1	mg/kg	02/24/1994	nds

Ref: SHELL, 1285 Bancroft Ave., San Leandro

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)					
Bromodichloromethane	ND	2.0	ug/kg	02/27/1994	asm
Bromoform	ND	2.0	ug/kg	02/27/1994	asm
Bromomethane	ND	2.0	ug/kg	02/27/1994	asm
Carbon tetrachloride	ND	2.0	ug/kg	02/27/1994	asm
Chlorobenzene	ND	2.0	ug/kg	02/27/1994	asm
Chloroethane	ND	2.0	ug/kg	02/27/1994	asm
2-Chloroethylvinyl ether	ND	5.0	ug/kg	02/27/1994	asm
Chloroform	ND	2.0	ug/kg	02/27/1994	asm
Chloromethane	ND	2.0	ug/kg	02/27/1994	asm
Dibromochloromethane	ND	2.0	ug/kg	02/27/1994	asm
1,2-Dichlorobenzene	ND	2.0	ug/kg	02/27/1994	asm
1,3-Dichlorobenzene	ND	2.0	ug/kg	02/27/1994	asm
1,4-Dichlorobenzene	ND	2.0	ug/kg	02/27/1994	asm
Dichlorodifluoromethane	ND	2.0	ug/kg	02/27/1994	asm
1,1-Dichloroethane	ND	2.0	ug/kg	02/27/1994	asm
1,2-Dichloroethane	ND	2.0	ug/kg	02/27/1994	asm
1,1-Dichloroethene	ND	2.0	ug/kg	02/27/1994	asm
trans-1,2-Dichloroethene	ND	2.0	ug/kg	02/27/1994	asm
1,2-Dichloropropane	ND	2.0	ug/kg	02/27/1994	asm
cis-1,3-Dichloropropene	ND	2.0	ug/kg	02/27/1994	asm
trans-1,3-Dichloropropene	ND	2.0	ug/kg	02/27/1994	asm
Methylene chloride	ND	50	ug/kg	02/27/1994	asm
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	02/27/1994	asm
Tetrachloroethene	ND	2.0	ug/kg	02/27/1994	asm
1,1,1-Trichloroethane	ND	2.0	ug/kg	02/27/1994	asm
1,1,2-Trichloroethane	ND	2.0	ug/kg	02/27/1994	asm
Trichloroethene	ND	2.0	ug/kg	02/27/1994	asm
Trichlorofluoromethane	ND	2.0	ug/kg	02/27/1994	asm
Vinyl chloride	ND	2.0	ug/kg	02/27/1994	asm
1,4-Difluorobenzene (SURR)	100		% Rec.	02/27/1994	asm
Bromochloromethane (SURR)	67		% Rec.	02/27/1994	asm

Ref: SHELL, 1285 Bancroft Ave., San Leandro

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)					
Bromodichloromethane	ND	2.0	ug/kg	02/28/1994	asm
Bromoform	ND	2.0	ug/kg	02/28/1994	asm
Bromomethane	ND	2.0	ug/kg	02/28/1994	asm
Carbon tetrachloride	ND	2.0	ug/kg	02/28/1994	asm
Chlorobenzene	ND	2.0	ug/kg	02/28/1994	asm
Chloroethane	ND	2.0	ug/kg	02/28/1994	asm
2-Chloroethylvinyl ether	ND	5.0	ug/kg	02/28/1994	asm
Chloroform	ND	2.0	ug/kg	02/28/1994	asm
Chloromethane	ND	2.0	ug/kg	02/28/1994	asm
Dibromochloromethane	ND	2.0	ug/kg	02/28/1994	asm
1,2-Dichlorobenzene	ND	2.0	ug/kg	02/28/1994	asm
1,3-Dichlorobenzene	ND	2.0	ug/kg	02/28/1994	asm
1,4-Dichlorobenzene	ND	2.0	ug/kg	02/28/1994	asm
Dichlorodifluoromethane	ND	2.0	ug/kg	02/28/1994	asm
1,1-Dichloroethane	ND	2.0	ug/kg	02/28/1994	asm
1,2-Dichloroethane	ND	2.0	ug/kg	02/28/1994	asm
1,1-Dichloroethene	ND	2.0	ug/kg	02/28/1994	asm
trans-1,2-Dichloroethene	ND	2.0	ug/kg	02/28/1994	asm
1,2-Dichloropropane	ND	2.0	ug/kg	02/28/1994	asm
cis-1,3-Dichloropropene	ND	2.0	ug/kg	02/28/1994	asm
trans-1,3-Dichloropropene	ND	2.0	ug/kg	02/28/1994	asm
Methylene chloride	ND	50	ug/kg	02/28/1994	asm
1,1,2,2-Tetrachloroethane	ND	2.0	ug/kg	02/28/1994	asm
Tetrachloroethene	ND	2.0	ug/kg	02/28/1994	asm
1,1,1-Trichloroethane	ND	2.0	ug/kg	02/28/1994	asm
1,1,2-Trichloroethane	ND	2.0	ug/kg	02/28/1994	asm
Trichloroethene	ND	2.0	ug/kg	02/28/1994	asm
Trichlorofluoromethane	ND	2.0	ug/kg	02/28/1994	asm
Vinyl chloride	ND	2.0	ug/kg	02/28/1994	asm
1,4-Difluorobenzene (SURR)	102		% Rec.	02/28/1994	asm
Bromochloromethane (SURR)	71		% Rec.	02/28/1994	asm

Ref: SHELL, 1285 Bancroft Ave., San Leandro

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	89.4	99.1	10.3	2,879	ND	2,573	2,641	mg/kg	02/25/1994	pbg
Oil & Grease (Total)	99.5	99.2	0.3	2,618	ND	2,604	2,737	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	89.4	99.1	10.3	2,879	ND	2,573	2,641	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	99.5	99.2	0.3	2,618	ND	2,604	2,737	mg/kg	02/25/1994	pbg
TPH (Gas/BTXE,Solid)										
as Gasoline	103.6	96.0	7.5	5.00	ND	5.18	4.80	mg/kg	02/21/1994	jmh
Benzene	92.6	86.1	7.3	202	ND	187	174	ug/kg	02/21/1994	jmh
Toluene	95.6	92.3	3.5	454	ND	434	419	ug/kg	02/21/1994	jmh
METHOD 3550/M8015										
as Diesel	66.5	98.2	38.5	16.7	ND	11.1	16.4	mg/kg	02/24/1994	nds

Ref: SHELL, 1285 Bancroft Ave., San Leandro

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
METHOD 8010 (GC,Solid)										
Chlorobenzene	96.8	100.6	3.8	95.0	ND	92.0	86.0	ug/kg	02/28/1994	asm
1,1-Dichloroethene	100.5	103.5	2.9	95.0	ND	95.5	88.5	ug/kg	02/28/1994	asm
Trichloroethene	80.5	88.9	9.9	95.0	ND	76.5	76.0	ug/kg	02/28/1994	asm

Ref: SHELL, 1285 Bancroft Ave., San Leandro

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials
Oil & Grease (Total)	99.7		2,874	2,882	mg/kg	02/25/1994	pbg
Oil & Grease (Total)	97.6		2,846	2,916	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	99.7		2,874	2,882	mg/kg	02/25/1994	pbg
Oil & Grease (Non-Polar)	94.0		2,740	2,916	mg/kg	02/25/1994	pbg
METHOD 3550/M8015 as Diesel	95.8		16.0	16.7	mg/kg	02/24/1994	nds

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. **Do not** multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than the applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993
abb.93

COOLER RECEIPT FORM

Project: Shell, Bancroft Ave., San Leandro Log No: 7998
Cooler received on: 2-18-94 and checked on 2-18-94 by I. Sorensen
(signature)

Were custody papers present?.....(YES) NO

Were custody papers properly filled out?.....(YES) NO

Were the custody papers signed?.....(YES) NO

Was sufficient ice used?.....(YES) NO -0.4°C

Did all bottles arrive in good condition (unbroken)?.....(YES) NO

Did bottle labels match COC?.....(YES) NO

Were proper bottles used for analysis indicated?.....(YES) NO

Correct preservatives used?.....(YES) NO Cold

VOA vials checked for headspace bubbles?.....YES NO N/A
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis.....YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

(coolerrec)

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 7998

Date: 2/16/04
Page 1 of 3

Site Address: 1285 Bancroft Ave, San Leandro CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: Kurt Bruecker

Printed Name: Kurt Bruecker

LAB: NET

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-4 6.0	2/16		X			1						X							Soil	
MW-4 12.5	2/16		X			1						X							Soil	
MW-4 15.5	2/16		X			1						X							Soil	
MW-4 20.5	2/16		X			1						X							soil	
MW-4 25.5	2/16		X			1						X							soil	2/17/04 GP Lumbre audit
MW-4 30.5	2/16		X			1						X							Soil	
MW-4 35.5	2/16		X			1						X							soil	
MW-4 40.5	2/16		X			1						X							soil	

CHECK ONE (1) BOX ONLY | CT/DT
- G.W. Monitoring ☐ 4461
- Site Investigation ☒ 4441
- Soil Classify/Disposal ☐ 4442
- Water Classify/Disposal ☐ 4443
- Soil/Air Rem. or Sys. O & M ☐ 4452
- Water Rem. or Sys. O & M ☐ 4453
- Other ☐

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐ ____

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ____

	Printed Name	Date / Time		Printed Name	Date / Time
Relinquished By (signature):	Kurt Bruecker	Date: 2/16 Time: 1730	Received (signature):	GP Lumbre	Date: 2/17/04 Time: 13:45
Relinquished By (signature):	GP LUMBRE	Date: 2/17/04 Time: 7:30	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature): (via NCS)	Printed Name:	Date: Time:	Received (signature):	Printed Name: K. Temple	Date: 2/18/04 Time: 0900

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 1/12/95

Shell Oil Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 7998

Date: 2/16/94
Page 2 of 3

Site Address: 1285 Bancroft Ave, San Leandro CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: [signature]

Printed Name: Kurt Bruecker

LAB: NET

CHECK ONE (1) BOX ONLY		CT/DT
G.W. Monitoring	☐	4461
Site Investigation	☒	4441
Soil Classify/Disposal	☐	4442
Water Classify/Disposal	☐	4443
Soil/Air Rem. or Sys. O & M	☐	4452
Water Rem. or Sys. O & M	☐	4453
Other	☐	

TURN AROUND TIME: 24 hours ☐ 48 hours ☐ 15 days ☒ (Normal) Other ☐ ____

NOTE: Notify Lab as soon as Possible on 24/48 hrs. TAT.

UST AGENCY: ____

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020			Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-4 45.5	2/16		X			1						X							Soil	
50.5	2/16		X			1						X							Soil	
55.5	2/16		X			1						X							Soil	

2/17/94 [signature] seal intact

Relinquished By (signature): [signature]	Printed Name: Kurt Bruecker	Date: 2/16 Time: 1730	Received (signature): [signature]	Printed Name: GP LUNDRE	Date: 2/17/94 Time: 0805
Relinquished By (signature): [signature]	Printed Name: GP LUNDRE	Date: 2/17/94 Time: 1420	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature): (VIA NCL)	Printed Name:	Date: Time:	Received (signature): [signature]	Printed Name: K. Temple	Date: 2/18/94 Time: 0800

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/15/93

Shell Oil Chain of Custody

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No:

Date: 2/16/16
Page 1 of 3

Site Address: 12[illegible] Teagarden Ave, San Leandro CA

WIC#: 204-1852-0703

Shell Engineer: Dan Kirk — Phone No.: 675-6168, Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB # — Phone No.: (510) 547-5420, Fax #: 547-5043

Comments:

Sampled by: Kurt Brueckner

Printed Name: Kurt Brueckner

LAB: NET

CHECK ONE (1) BOX ONLY		CT/DT	TURN AROUND TIME
G.W. Monitoring	☐	4461	24 hours ☐
Site Investigation	☒	4441	48 hours ☐
Soil Classify/Disposal	☐	4442	15 days ☒ (Normal)
Water Classify/Disposal	☐	4443	Other ☐
Soil/Air Rem. or Sys. O & M	☐	4452	
Water Rem. or Sys. O & M	☐	4453	NOTE: Notify Lab as soon as Possible a 24/48 hrs. TAT.
Other	☐		

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	HVOC (8010)	ROG (SS20 EPA)	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-4 6.0	2/16		X			1													Soil	HOLD
MW-4 12.5	2/16		X			1													Soil	HOLD
MW-4 15.5	2/16		X			1		X				X	X	X					Soil	
MW-4 20.5	2/16		X			1		X				X	X	X					Soil	
MW-4 25.5	2/16		X			1		X				X	X	X					Soil	
MW-4 30.5	2/16		X			1		X				X	X	X					Soil	
MW-4 35.5	2/16		X			1		X				X	X	X					Soil	
MW-4 40.5	2/16		X			1		X				X	X	X					Soil	

Relinquished By (signature):	Printed Name: Kurt Brueckner	Date: 2/16 Time: 1730	Received (signature):	Printed Name: GP Lumbre	Date: 2/17/16 Time: 13:45
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature):	Printed Name:	Date: Time:	Received (signature):	Printed Name:	Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Shell Oil Products Company

PAGE 02

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: ______

Date: 2/16/94
Page 2 of 3

Site Address: 1285 Bancroft Ave, San Leandro CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No.: 675-6168
Fax #: 675-6172

Consultant Name & Address: WEISS ASSOCIATES 5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB #
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: Kurt Bruecker (signature)

Printed Name: Kurt Bruecker

LAB: NET

CHECK ONE (1) BOX ONLY	CT/DT
G.W. Monitoring ☐	4461
Site Investigation ☒	4441
Soil Classify/Disposal ☐	4442
Water Classify/Disposal ☐	4443
Soil/Air Rem. or Sys. O & M ☐	4452
Water Rem. or Sys. O & M ☐	4453
Other ☐	

TURN AROUND TIME
- 24 hours ☐
- 48 hours ☐
- 15 days ☒ (Normal)
- Other ☐

NOTE: Notify Lab as soon as Possible of 24/48 hrs. TAT.

UST AGENCY: ______

Analysis Required

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240)	Test for Disposal	Combination TPH 8015 & BTEX 8020	HVOC (8010)	ROG (5520 E&F)	Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-4 45.5	2/16		X			1		X				X	X	X					Soil	
50.5	2/16		X			1		X				X	X	X					soil	
55.5	2/16		X			1		X				X	X	X					soil	

Relinquished By (signature):	Printed Name:	Date/Time:	Received (signature):	Printed Name:	Date/Time:
(signature)	Kurt Bruecker	Date: 2/16 Time: 1730	(signature)	GP LUMARE	Date: 2/16/94 Time: 3:45
		Date: Time:			Date: Time:
		Date: Time:			Date: Time:

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

ATTACHMENT D

ANALYTIC RESULTS FOR GROUND WATER

NATIONAL ENVIRONMENTAL TESTING, INC.

Santa Rosa Division
435 Tesconi Circle
Santa Rosa, CA 95401
Tel: (707) 526-7200
Fax: (707) 526-9623

Tom Fojut
Weiss Associates
5500 Shellmound St.
Emeryville, CA 94608

Date: 03/15/1994
NET Client Acct. No: 1809
NET Pacific Job No: 94.00881
Received: 03/04/1994

Client Reference Information

SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

Sample analysis in support of the project referenced above has been completed and results are presented on following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel welcome to contact Client Services.

Approved by:

Judy Ridley
Project Coordinator

Jim Hoch
Operations Manager

Enclosure(s)

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: MW-4
Date Taken: 03/01/1994
Time Taken:
NET Sample No: 188990

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
Oil & Grease (IR,Total)	ND		5	mg/L	5520C		03/11/1994
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						03/09/1994
DILUTION FACTOR*	1						03/09/1994
as Gasoline	ND		0.05	mg/L	5030		03/09/1994
METHOD 8020 (GC,Liquid)	--						03/09/1994
Benzene	ND		0.0005	mg/L	8020		03/09/1994
Toluene	ND		0.0005	mg/L	8020		03/09/1994
Ethylbenzene	ND		0.0005	mg/L	8020		03/09/1994
Xylenes (Total)	ND		0.0005	mg/L	8020		03/09/1994
SURROGATE RESULTS	--						03/09/1994
Bromofluorobenzene (SURR)	106			% Rec.	5030		03/09/1994
METHOD 3510/M8015						03/08/1994	
DILUTION FACTOR*	1						03/10/1994
as Diesel	ND		0.05	mg/L	3510		03/10/1994

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: MW-4
Date Taken: 03/01/1994
Time Taken:
NET Sample No: 188990

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
METHOD 624(GCMS,Liquid)							
DILUTION FACTOR*	1						03/07/1994
Benzene	ND		0.0044	mg/L	624		03/07/1994
Bromodichloromethane	ND		0.0022	mg/L	624		03/07/1994
Bromoform	ND		0.0047	mg/L	624		03/07/1994
Bromomethane	ND		0.0050	mg/L	624		03/07/1994
Carbon tetrachloride	ND		0.0028	mg/L	624		03/07/1994
Chlorobenzene	ND		0.0060	mg/L	624		03/07/1994
Chloroethane	ND		0.0050	mg/L	624		03/07/1994
2-Chloroethyl vinyl ether	ND		0.0070	mg/L	624		03/07/1994
Chloroform	0.0066		0.0016	mg/L	624		03/07/1994
Chloromethane	ND		0.0050	mg/L	624		03/07/1994
Dibromochloromethane	ND		0.0031	mg/L	624		03/07/1994
1,2-Dichlorobenzene	ND		0.0060	mg/L	624		03/07/1994
1,3-Dichlorobenzene	ND		0.0060	mg/L	624		03/07/1994
1,4-Dichlorobenzene	ND		0.0060	mg/L	624		03/07/1994
1,1-Dichloroethane	ND		0.0047	mg/L	624		03/07/1994
1,2-Dichloroethane	ND		0.0028	mg/L	624		03/07/1994
1,1-Dichloroethene	ND		0.0028	mg/L	624		03/07/1994
trans-1,2-Dichloroethene	ND		0.0016	mg/L	624		03/07/1994
1,2-Dichloropropane	ND		0.0060	mg/L	624		03/07/1994
cis-1,3-Dichloropropene	ND		0.0050	mg/L	624		03/07/1994
trans-1,3-Dichloropropene	ND		0.0050	mg/L	624		03/07/1994
Ethyl benzene	ND		0.0072	mg/L	624		03/07/1994
Methylene chloride	ND		0.025	mg/L	624		03/07/1994
1,1,2,2-Tetrachloroethane	ND		0.0069	mg/L	624		03/07/1994
Tetrachloroethene	0.0084		0.0041	mg/L	624		03/07/1994
Toluene	ND		0.0060	mg/L	624		03/07/1994
1,1,1-Trichloroethane	ND		0.0038	mg/L	624		03/07/1994
1,1,2-Trichloroethane	ND		0.0050	mg/L	624		03/07/1994
Trichloroethene	ND		0.0019	mg/L	624		03/07/1994
Trichlorofluoromethane	ND		0.0050	mg/L	624		03/07/1994
Vinyl chloride	ND		0.0050	mg/L	624		03/07/1994
Xylenes (total)	ND		0.0050	mg/L	624		03/07/1994
SURROGATE RESULTS	--						03/07/1994
Toluene-d8 (SURR)	94			% Rec.	624		03/07/1994
Bromofluorobenzene (SURR)	104			% Rec.	624		03/07/1994
1,2-Dichloroethane-d4 (SURR)	93			% Rec.	624		03/07/1994

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

SAMPLE DESCRIPTION: TB
Date Taken: 03/01/1994
Time Taken:
NET Sample No: 188991

Parameter	Results	Flags	Reporting Limit	Units	Method	Date Extracted	Date Analyzed
TPH (Gas/BTXE,Liquid)							
METHOD 5030/M8015	--						03/09/1994
DILUTION FACTOR*	1						03/09/1994
as Gasoline	ND		0.05	mg/L	5030		03/09/1994
METHOD 8020 (GC,Liquid)	--						03/09/1994
Benzene	ND		0.0005	mg/L	8020		03/09/1994
Toluene	ND		0.0005	mg/L	8020		03/09/1994
Ethylbenzene	ND		0.0005	mg/L	8020		03/09/1994
Xylenes (Total)	ND		0.0005	mg/L	8020		03/09/1994
SURROGATE RESULTS	--						03/09/1994
Bromofluorobenzene (SURR)	104			% Rec.	5030		03/09/1994

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
Oil & Grease (IR,Total)	109.0	54.5	50.0	mg/L	03/11/1994	pbg
TPH (Gas/BTXE,Liquid)						
as Gasoline	86.4	0.864	1.00	mg/L	03/09/1994	vin
Benzene	109.2	5.46	5.00	ug/L	03/09/1994	vin
Toluene	98.0	4.90	5.00	ug/L	03/09/1994	vin
Ethylbenzene	94.8	4.74	5.00	ug/L	03/09/1994	vin
Xylenes (Total)	101.4	15.21	15.0	ug/L	03/09/1994	vin
Bromofluorobenzene (SURR)	105.0	105	100	% Rec.	03/09/1994	vin
METHOD 3510/M8015						
as Diesel	107.0	1070	1000	mg/L	03/10/1994	tts

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV Standard % Recovery	CCV Standard Amount Found	CCV Standard Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 624(GCMS,Liquid)						
Chloroform	101.8	50.9	50.0	ug/L	03/07/1994	jes
1,1-Dichloroethene	117.8	58.9	50.0	ug/L	03/07/1994	jes
1,2-Dichloropropane	104.8	52.4	50.0	ug/L	03/07/1994	jes
Ethyl benzene	93.6	46.8	50.0	ug/L	03/07/1994	jes
Toluene	99.4	49.7	50.0	ug/L	03/07/1994	jes
Vinyl chloride	124.0	62.0	50.0	ug/L	03/07/1994	jes
Toluene-d8 (SURR)	104.0	104	100	% Rec.	03/07/1994	jes
Bromofluorobenzene (SURR)	91.0	91	100	% Rec.	03/07/1994	jes
1,2-Dichloroethane-d4 (SURR)	97.0	97	100	% Rec.	03/07/1994	jes

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
Oil & Grease (IR,Total)	ND	5	mg/L	03/11/1994	pbg
TPH (Gas/BTXE,Liquid)					
as Gasoline	ND	0.05	mg/L	03/09/1994	vin
Benzene	ND	0.5	ug/L	03/09/1994	vin
Toluene	ND	0.5	ug/L	03/09/1994	vin
Ethylbenzene	ND	0.5	ug/L	03/09/1994	vin
Xylenes (Total)	ND	0.5	ug/L	03/09/1994	vin
Bromofluorobenzene (SURR)	104		% Rec.	03/09/1994	vin
METHOD 3510/M8015					
as Diesel	ND	0.05	mg/L	03/10/1994	tts

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

METHOD BLANK REPORT

Parameter	Method Blank Amount Found	Reporting Limit	Units	Date Analyzed	Analyst Initials
METHOD 624 (GCMS, Liquid)					
Benzene	ND	5.0	ug/L	03/07/1994	jes
Bromodichloromethane	ND	5.0	ug/L	03/07/1994	jes
Bromoform	ND	5.0	ug/L	03/07/1994	jes
Bromomethane	ND	5.0	ug/L	03/07/1994	jes
Carbon tetrachloride	ND	5.0	ug/L	03/07/1994	jes
Chlorobenzene	ND	5.0	ug/L	03/07/1994	jes
Chloroethane	ND	5.0	ug/L	03/07/1994	jes
2-Chloroethyl vinyl ether	ND	10	ug/L	03/07/1994	jes
Chloroform	ND	5.0	ug/L	03/07/1994	jes
Chloromethane	ND	5.0	ug/L	03/07/1994	jes
Dibromochloromethane	ND	5.0	ug/L	03/07/1994	jes
1,2-Dichlorobenzene	ND	6.0	ug/L	03/07/1994	jes
1,3-Dichlorobenzene	ND	6.0	ug/L	03/07/1994	jes
1,4-Dichlorobenzene	ND	6.0	ug/L	03/07/1994	jes
1,1-Dichloroethane	ND	5.0	ug/L	03/07/1994	jes
1,2-Dichloroethane	ND	5.0	ug/L	03/07/1994	jes
1,1-Dichloroethene	ND	5.0	ug/L	03/07/1994	jes
trans-1,2-Dichloroethene	ND	5.0	ug/L	03/07/1994	jes
1,2-Dichloropropane	ND	5.0	ug/L	03/07/1994	jes
cis-1,3-Dichloropropene	ND	5.0	ug/L	03/07/1994	jes
trans-1,3-Dichloropropene	ND	5.0	ug/L	03/07/1994	jes
Ethyl benzene	ND	5.0	ug/L	03/07/1994	jes
Methylene chloride	4.1	5.0	ug/L	03/07/1994	jes
1,1,2,2-Tetrachloroethane	ND	5.0	ug/L	03/07/1994	jes
Tetrachloroethene	ND	5.0	ug/L	03/07/1994	jes
Toluene	ND	5.0	ug/L	03/07/1994	jes
1,1,1-Trichloroethane	ND	5.0	ug/L	03/07/1994	jes
1,1,2-Trichloroethane	ND	5.0	ug/L	03/07/1994	jes
Trichloroethene	ND	5.0	ug/L	03/07/1994	jes
Trichlorofluoromethane	ND	5.0	ug/L	03/07/1994	jes
Vinyl chloride	ND	5.0	ug/L	03/07/1994	jes
Xylenes (total)	ND	5.0	ug/L	03/07/1994	jes
Toluene-d8 (SURR)	96		% Rec.	03/07/1994	jes
Bromofluorobenzene (SURR)	110		% Rec.	03/07/1994	jes
1,2-Dichloroethane-d4 (SURR)	91		% Rec.	03/07/1994	jes

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike % Rec.	Matrix Spike Dup % Rec.	RPD	Spike Amount	Sample Conc.	Matrix Spike Conc.	Matrix Spike Dup. Conc.	Units	Date Analyzed	Analyst Initials
METHOD 624(GCMS,Liquid)										
Benzene	98.6	95.6	3.1	50.0	ND	49.3	47.8	ug/L	03/07/1994	jes
Chlorobenzene	100.0	100.0	0.0	50.0	ND	50.0	50.0	ug/L	03/07/1994	jes
1,1-Dichloroethene	88.6	87.8	0.9	50.0	ND	44.3	43.9	ug/L	03/07/1994	jes
Toluene	93.4	94.0	0.6	50.0	ND	46.7	47.0	ug/L	03/07/1994	jes
Trichloroethene	98.4	94.4	4.1	50.0	ND	49.2	47.2	ug/L	03/07/1994	jes

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials
Oil & Grease (IR,Total)	98.9		6.33	6.40	mg/L	03/11/1994	pbg
Oil & Grease (IR,Total)	93.6		5.99	6.40	mg/L	03/11/1994	pbg
METHOD 3510/M8015 as Diesel	76.0		0.76	1.00	mg/L	03/10/1994	tts

Ref: SHELL, 1285 Bancroft, San Leandro, Job No. 81-423-03

LABORATORY CONTROL SAMPLE REPORT

Parameter	LCS % Recovery	RPD	LCS Amount Found	LCS Amount Expected	Units	Date Analyzed	Analyst Initials
METHOD 624(GCMS,Liquid)							
Benzene	101.0		50.5	50.0	ug/L	03/07/1994	jes
Chlorobenzene	100.0		50.0	50.0	ug/L	03/07/1994	jes
1,1-Dichloroethene	82.6		41.3	50.0	ug/L	03/07/1994	jes
Toluene	100.4		50.2	50.0	ug/L	03/07/1994	jes
Trichloroethene	101.0		50.5	50.0	ug/L	03/07/1994	jes
Toluene-d8 (SURR)	99.0		99	100	% Rec.	03/07/1994	jes
Bromofluorobenzene (SURR)	103.0		103	100	% Rec.	03/07/1994	jes
1,2-Dichloroethane-d4 (SURR)	94.0		94	100	% Rec.	03/07/1994	jes

NET®

KEY TO ABBREVIATIONS and METHOD REFERENCES

<	:	Less than; When appearing in results column indicates analyte not detected at the value following. This datum supercedes the listed Reporting Limit.
*	:	Reporting Limits are a function of the dilution factor for any given sample. Actual reporting limits and results have been multiplied by the listed dilution factor. Do not multiply the reporting limits or reported values by the dilution factor.
dw	:	Result expressed as dry weight.
mean	:	Average; sum of measurements divided by number of measurements.
mg/Kg (ppm)	:	Concentration in units of milligrams of analyte per kilogram of sample, wet-weight basis (parts per million).
mg/L	:	Concentration in units of milligrams of analyte per liter of sample.
mL/L/hr	:	Milliliters per liter per hour.
MPN/100 mL	:	Most probable number of bacteria per one hundred milliliters of sample.
N/A	:	Not applicable.
NA	:	Not analyzed.
ND	:	Not detected; the analyte concentration is less than the applicable listed reporting limit.
NTU	:	Nephelometric turbidity units.
RPD	:	Relative percent difference, 100 [Value 1 - Value 2]/mean value.
SNA	:	Standard not available.
ug/Kg (ppb)	:	Concentration in units of micrograms of analyte per kilogram of sample, wet-weight basis (parts per billion).
ug/L	:	Concentration in units of micrograms of analyte per liter of sample.
umhos/cm	:	Micromhos per centimeter.

Method References

Methods 100 through 493: see "Methods for Chemical Analysis of Water & Wastes", U.S. EPA, 600/4-79-020, Rev. 1983.

Methods 601 through 625: see "Guidelines Establishing Test Procedures for the Analysis of Pollutants" U.S. EPA, 40 CFR, Part 136, Rev. 1988.

Methods 1000 through 9999: see "Test Methods for Evaluating Solid Waste", U.S. EPA SW-846, 3rd edition, 1986., Rev. 1, December 1987.

SM: see "Standard Methods for the Examination of Water & Wastewater, 17th Edition, APHA, 1989.

Revised September, 1993
abb.93

COOLER RECEIPT FORM

Project: Shell, San Leandro 8/-423-03 Log No: 8212
Cooler received on: 3-4-94 and checked on 3-4-94 by J. Sreinsen
(signature)

Were custody papers present?..... YES NO
Were custody papers properly filled out?..... YES NO
Were the custody papers signed?..... YES NO
Was sufficient ice used?..... YES NO 3.5°C
Did all bottles arrive in good condition (unbroken)?..... YES NO
Did bottle labels match COC?..... YES NO
Were proper bottles used for analysis indicated?..... YES NO
Correct preservatives used?..... YES NO *
VOA vials checked for headspace bubbles?..... YES NO
Note which voas (if any) had bubbles:*

Sample descriptor:	Number of vials:
Trip Blank	1 of 2

*All VOAs with headspace bubbles have been set aside so they will not be used for analysis..... YES NO

List here all other jobs received in the same cooler:

Client Job #	NET log #

* Preserved 1 1L AG w/ Sulfuric, 3/4 gal J.S., Jm 0&G

(coolerrec)

SHELL OIL COMPANY
RETAIL ENVIRONMENTAL ENGINEERING - WEST

CHAIN OF CUSTODY RECORD
Serial No: 8212

Date: 3/1/94
Page 1 of 1

Site Address: 1285 Bancroft, San Leandro, CA

WIC#: 204-6852-0703

Shell Engineer: Dan Kirk
Phone No: 675-6168
Fax #: -6172

Consultant Name & Address: WEISS ASSOCIATES
5500 SHELLMOUND ST EMERYVILLE CA 94608

Consultant Contact: WA JOB # 81-423-03
Phone No.: (510) 547-5420
Fax #: 547-5043

Comments:

Sampled by: Anni Kreml

Printed Name: Anni Kreml

LAB: Net

UST AGENCY:

Sample ID	Date	Sludge	Soil	Water	Air	No. of conts.	TPH (EPA 8015 Mod. Gas)	TPH (EPA 8015 Mod. Diesel)	BTEX (EPA 8020/602)	Volatile Organics (EPA 8240/624)	Test for Disposal	Combination TPH 8015 & BTEX 8020	oil & grease EPA 413.2		Asbestos	Container Size	Preparation Used	Composite Y/N	MATERIAL DESCRIPTION	SAMPLE CONDITION/ COMMENTS
MW-4	3/1/94			X		3				X		X				40 ml	HCl	N		
↓	↓			X		2		X					X			1 l	None	N		
TB	↓			X		2						X				40 ml	HCl	N		
																			3/3/94	

Relinquished By (signature): Anni Kreml 3/3/94	Printed Name: Anni Kreml	Date: 3/3/94 Time: 1125	Received (signature): GP Lumbre	Printed Name: GP LUMBRE	Date: 3/3/94 Time: 11:25
Relinquished By (signature): GP Lumbre	Printed Name: GP LUMBRE	Date: 3/3/94 Time: 1700	Received (signature):	Printed Name:	Date: Time:
Relinquished By (signature): (VIA FED EX)	Printed Name:	Date: Time:	Received (signature): K Temple	Printed Name: K. Temple	Date: 3/4/94 Time: 0800

THE LABORATORY MUST PROVIDE A COPY OF THIS CHAIN-OF-CUSTODY WITH INVOICE AND RESULTS

Rev. 7/15/93

Shell Oil Chain of Custody

Secured overnight (ss)

CHECK ONE (1) BOX ONLY

	CT/DT
G.W. Monitoring	4461
Site Investigation	4441
Soil Classify/Disposal	4442
Water Classify/Disposal	4443
Soil/Air Rem. or Sys. O & M	4452
Water Rem. or Sys. O & M	4453
Other	

TURN AROUND TIME

- 24 hours
- 48 hours
- 15 days (Normal)
- Other

NOTE: Notify Lab as soon as Possible - 24/48 hrs. TAT.