

C A M B R I A

October 24, 2003

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Mr. Don Hwang
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

Re: **Site Assessment Report**
Douglas Parking Company
1721 Webster Street
Oakland, California
StID 4070
Cambria Project No. 580-0197

Alameda County
OCT 30 2003
Environmental Health



Dear Mr. Hwang:

On behalf of Douglas Parking Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Site Assessment Report* for the above referenced site. This report details the monitoring well installation activities discussed in Cambria's *Subsurface Investigation Workplan* dated March 28, 2002.

If you have any questions regarding this report, please call me at (510) 420-3307.

Sincerely,

Cambria Environmental Technology, Inc.

Mary C. Holland-Ford, R.G.
Project Geologist

Attachment: Site Assessment Report

cc: Mr. Leland Douglas, Douglas Parking Company, 1721 Webster Street, Oakland, California 94612

**Cambria
Environmental
Technology, Inc.**

5900 Hollis Street
Suite A
Emeryville, CA 94608
Tel (510) 420-0700
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C A M B R I A

SITE ASSESSMENT REPORT

**Douglas Parking Company
1721 Webster Street
Oakland, California
StID 4070/RO0000129
Cambria Project #580-0197**

October 24, 2003

**Alameda County
OCT 30 2003
Environmental Health**

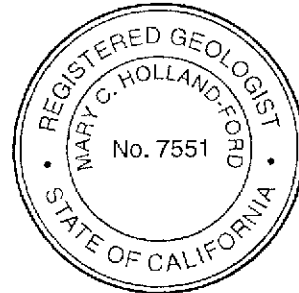


Prepared For:

Mr. Leland Douglas
Douglas Parking Company
1721 Webster Street
Oakland, California 94612

Prepared By:

Cambria Environmental Technology, Inc.
5900 Hollis Street, Suite A
Emeryville, California 94608



Written by:

**Cambria
Environmental
Technology, Inc.**

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Matthew A. Meyers
for Matthew A. Meyers
Senior Staff Geologist

Mary C. Holland-Ford
Mary C. Holland-Ford, R.G.
Project Geologist

SITE ASSESSMENT REPORT

Douglas Parking Company
1721 Webster Street
Oakland, California
StID 4070/RO0000129
Cambria Project #580-0197

October 24, 2003



INTRODUCTION

On behalf of Douglas Parking Company, Cambria Environmental Technology, Inc. (Cambria) is submitting this *Site Assessment Report* for the above referenced site. This report details the monitoring well installation activities proposed in Cambria's *Subsurface Investigation Workplan* dated March 28, 2002. The Workplan was approved by the Alameda County Health Care Services Agency (ACHCSA) in a letter dated April 29, 2002 (see Appendix A). The site background, previous work, well installation activities, investigation results, and conclusions are presented below.

SITE BACKGROUND

Site Description: The site is located at 1721 Webster Street between 17th and 19th Streets in downtown Oakland, California (Figure 1). The site is located approximately five miles east of the San Francisco Bay and one half-mile west of Lake Merritt. The site is currently being utilized as a parking garage (see Figure 2).

Nearby LUST Sites: Prentiss Properties is northeast of the site located at 1750 Webster Street, and presently has three onsite monitoring wells (Figure 2). Groundwater samples collected by ATC Associates, Inc. (ATC) on February 8, 1998 detected MTBE concentrations up to 2,900 micrograms per liter ($\mu\text{g/L}$). Eleven of the twelve groundwater samples collected during ATC's investigation contained detectable MTBE concentrations.

A former Chevron Service station is located approximately 400 feet southwest of the site, on the corner of 17th Street and Harrison Street. The groundwater has been impacted by hydrocarbons in the vicinity of the Chevron station.

PREVIOUS WORK

1992 Tank Removal: On August 3 and 6, 1992, Parker Environmental Services removed one 1,000-gallon and two 500-gallon gasoline underground storage tanks (USTs). Up to 1,500 milligrams per kilogram (mg/kg) total petroleum hydrocarbons as gasoline (TPHg) and up to 12 mg/kg benzene were detected in the soil samples collected from the UST excavation (Table 1).

1994 Subsurface Investigation: On July 8 and September 8, 1994, Gen Tech/Piers Environmental, Inc. (Gen Tech) of San Jose, California drilled six exploratory borings (EB-1 through EB-6) and installed three groundwater monitoring wells (MW-1 through MW-3). TPHg and benzene concentrations of 650 mg/kg and 0.2 mg/kg, respectively, were detected in the soil samples collected at 20 feet (ft) below ground surface (bgs) near the former USTs. Maximum TPHg and benzene concentrations of 350,000 µg/L and 10,000 µg/L were detected in groundwater samples collected from well MW-2, immediately downgradient of the former USTs (Table 1).

1996 Subsurface Investigation: In February and May 1996, Cambria advanced seven geoprobe soil borings (SB-A through SB-G) and installed two groundwater monitoring wells (MW-4 and MW-5). A TPHg concentration of 660 mg/kg was detected at 20.5 ft bgs in a soil sample collected from boring SB-D, located downgradient from the former USTs. No benzene was detected in any of the soil samples (Table 1). Maximum TPHg and benzene concentrations of 63,000 µg/L and 7,400 µg/L were detected in groundwater samples collected from well MW-2 located downgradient of the former USTs (Table 2).

Oxygen Releasing Compound (ORC): To enhance the natural attenuation of dissolved-phase hydrocarbons, Cambria installed ORC socks in well MW-2 on January 8, 1998. Dissolved oxygen (DO) concentrations increased in well MW-2 as compared to other site wells, however the result was temporary.

Hydrogen Peroxide Injections: In February and March 1999, Cambria added a total of 120 gallons of 7.5% hydrogen peroxide solution into monitoring wells MW-2 and MW-3 to increase DO levels and enhance the biodegradation of dissolved-phase hydrocarbons. The hydrogen peroxide temporarily increased groundwater DO levels, however hydrocarbon concentrations remained at elevated levels following the hydrogen peroxide activities.

Remediation Well Installation: On March 4, 2003, Cambria supervised the installation of a co-axial airsparging/soil vapor extraction well (SV-1/AS-1) and two angled airsparging wells (AS-2 and AS-3) to approximately 30 ft bgs.

Groundwater Monitoring: Since 1994, groundwater depths have ranged from approximately 18 ft to 21 ft bgs (Table 2). The well casing elevations were recently resurveyed in July 2003 and

groundwater elevations currently range between 10 and 12 ft above mean sea level (Table 2). Groundwater flows consistently towards the northeast based on nine years of monitoring data.

WELL INSTALLATION ACTIVITIES

Cambria installed two monitoring wells upgradient and crossgradient of the former UST locations to further delineate the extent of the hydrocarbon plume (see Figure 2). Cambria's *Standard Field Procedures for Soil Borings and Monitoring Wells* is included in Appendix B.



- Personnel Present:** Rowan Fennell directed field activities, which were overseen by Mary Holland-Ford, a California Registered Geologist.
- Number of Wells:** Two wells (MW-6 and MW-7) were installed.
- Well Locations:** Well MW-6 is located crossgradient of the former UST location, on the east side of Webster Street, approximately 100 ft northeast of 17th Street. Well MW-7 is located upgradient of the former UST location, near the northwestern corner of Webster Street and 17th Street (see Figure 2).
- Permits:** Alameda County Public Works Agency issued permits for the installation of two wells. The City of Oakland issued encroachment, excavation and obstruction permits. The permits are included in Appendix C.
- Drilling Company:** Woodward Drilling Company of Rio Vista, California (C-57 License Number 710079) performed the well installations.
- Drilling Date:** Wells MW-6 and MW-7 were installed on June 27, 2003.
- Drilling Method:** A hollow stem auger rig with eight-inch diameter augers was used to install the two-inch diameter wells.
- Sampling Method:** Soil samples were collected at approximately 5 foot intervals using an 18-inch long California-modified split spoon sampler.
- Boring Depths:** Borings for wells MW-6 and MW-7 were drilled to 30 ft bgs.

Groundwater Depths: During drilling, groundwater was first encountered at 25 and 21 ft bgs in borings MW-6 and MW-7, respectively. On June 30, 2003, the static depth to water was measured at 19.60 and 21.40 ft below top of casing in wells MW-6 and MW-7, respectively.

Soil Types

Encountered:

The soils encountered during drilling consist of silty sand to approximately 25 to 29 ft bgs, underlain by sandy clay and silty clay to a total explored depth of 30 ft bgs. Soil boring logs are included in Appendix C.



Well Construction:

Wells MW-6 and MW-7 were constructed of 2-inch diameter, schedule 40, polyvinyl chloride (PVC) well casing. The wells were screened from 15 to 30 ft bgs with 0.010-inch slotted casing with a threaded bottom cap. The wells were completed with Monterey #2/12 sand from the bottom of the well to approximately 2 ft above the top of the screened casing. A well seal consisting of approximately 2 ft of hydrated bentonite chips, and approximately 11 ft of Portland Cement Type I/II was placed above the sand pack. A locking well cap and traffic-rated well box were installed on the wells. Well Construction Details and DWR Well Completion Reports are included in Appendix C.

Well Elevation

Survey:

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed the latitude, longitude, and elevation of the top of all monitoring wells (MW-1 through MW-7). The survey was performed relative to a City of Oakland benchmark with an elevation of 135.028 ft (NGVD 29). The well survey is presented in Appendix G. The well survey results have been submitted to the Geotracker database. See Appendix F for the electronic delivery confirmations.

Well Development:

On June 30, 2003, Cambria developed wells MW-6 and MW-7 by surging and purging multiple well casing volumes of groundwater until the turbidity was significantly reduced. Well development protocol is included in Cambria's *Standard Field Procedures for Soil Borings and Monitoring Wells* in Appendix B.

Soil Analyses:

One soil sample was collected from boring MW-6 at approximately 20 ft bgs. The sample was analyzed for TPHg and total petroleum hydrocarbons as diesel (TPHd) by modified EPA Method 8015C; and BTEX and MTBE by modified EPA Method 8021B by McCampbell Analytical of Pacheco, California. Soil analytical results are summarized in Table 1 and the soil sampling laboratory analytical report is presented as Appendix D. The analytical results have been submitted to the Geotracker database. See Appendix F for the electronic delivery confirmations.

**Groundwater Analyses:**

Groundwater samples were collected from wells MW-6 and MW-7 after well development. Samples were analyzed for TPHg by modified EPA Method 8015C; and BTEX and MTBE by modified EPA Method 8021B by McCampbell Analytical of Pacheco, California. Groundwater analytical results are shown in Table 2 and summarized on Figure 2. The laboratory analytical report is presented in Appendix E. The analytical results have been submitted to the Geotracker database. See Appendix F for the electronic delivery confirmations.

Disposal:

Soil stockpile and water samples were analyzed for TPHg by modified EPA Method 8015C; BTEX, MTBE by modified EPA Method 8021B; and lead by EPA Method 6010 for disposal purposes. Soil cuttings, rinsate, and groundwater generated during drilling activities were transported by Dillard Environmental to Clean Harbors, a licensed disposal facility. A copy of the waste manifest is included in Appendix H. Stockpile sampling protocol is included in Cambria's *Standard Field Procedures for Stockpile Sampling* in Appendix B.

INVESTIGATION RESULTS

Soil Analytical Results: During hydrocarbon field screening, elevated PID readings were measured only in boring MW-6 at 20 and 25 ft bgs (see boring log in Appendix C). TPHg and TPHd concentrations were detected at 220 mg/kg and 150 mg/kg, respectively in a soil sample collected at 20 ft bgs from well MW-6. No MTBE, benzene, or ethylbenzene concentrations were detected in the soil sample. No elevated PID readings were detected in boring MW-7

Groundwater Analytical Results: Elevated hydrocarbon concentrations in groundwater were detected in well MW-6. No hydrocarbon concentrations in groundwater were detected in upgradient well MW-7. During the third quarter sampling event performed on July 21, 2003, TPHg and benzene concentrations were detected in three of the six wells that were sampled. The maximum TPHg concentration was detected in well MW-6 at 120,000 µg/L. The maximum benzene concentration was detected in well MW-2 at 360 µg/L. MTBE was only detected in well MW-3 however confirmation analysis using EPA Method 8260 indicated that this was a false positive result and that no MTBE was present in the well (see Figure 2 and Table 2).



Historical Property Review: Since anomalously high hydrocarbon concentrations were detected in MW-6, Cambria reviewed additional historical information including available data for the nearby LUST sites and Sanborn maps between 1889 and 1964 from Environmental Data Resources, Inc. (EDR). The property located next to MW-6 at 1700 Webster Street was identified as likely having gasoline and oil USTs up until at least 1964. Sanborn maps dated 1950 through 1964 were labeled "Oil and Gas", and "Auto Parking" on the southwest corner of the property (see Figure 3). The location of the USTs was not shown on any of the maps. The EDR report with the available Sanborn maps for the site and surrounding area are included in Appendix I.

CONCLUSIONS

- No hydrocarbon concentrations were detected in shallow soil above the groundwater table. The elevated hydrocarbon concentrations detected in soil samples from boring MW-6 at 20 to 25 ft bgs are related to the hydrocarbon-impacted groundwater.
- Except for in the direction of well MW-6, hydrocarbon concentrations in groundwater are fully characterized in all directions.
- The high TPHg and low benzene concentrations in MW-6 indicate that the gasoline-range hydrocarbons are very weathered and likely source from an old release. The hydrocarbons detected in crossgradient well MW-6 are approximately two orders of magnitude higher than those detected in well MW-2 which is located directly downgradient of the former USTs. This suggests that the dissolved-phase hydrocarbons detected in MW-6 did not migrate from the former USTs at the site. It also appears that the dissolved-phase hydrocarbons in MW-6 did not migrate from the nearby Prentiss Property which is located hydraulically downgradient of the well.
- The weathered gasoline-range hydrocarbons present in MW-6 are most likely related to gasoline USTs previously located at 1700 Webster Street as indicated on the Sanborn maps.

ATTACHMENTS

Figure 1 – Vicinity Map

Figure 2 – Groundwater Elevation Contours and Hydrocarbon Concentration Map

Figure 3 – Sanborn Map copyright 1964

Table 1 – Soil Analytical Data

Table 2 – Groundwater Elevation and Analytical Data

Appendix A – Agency Correspondence

Appendix B – Standard Field Procedures

Appendix C – Boring Logs and Well Construction Details, Permits, and DWR Well Completion Reports

Appendix D – Laboratory Analytical Report - Soil

Appendix E – Laboratory Analytical Report - Groundwater

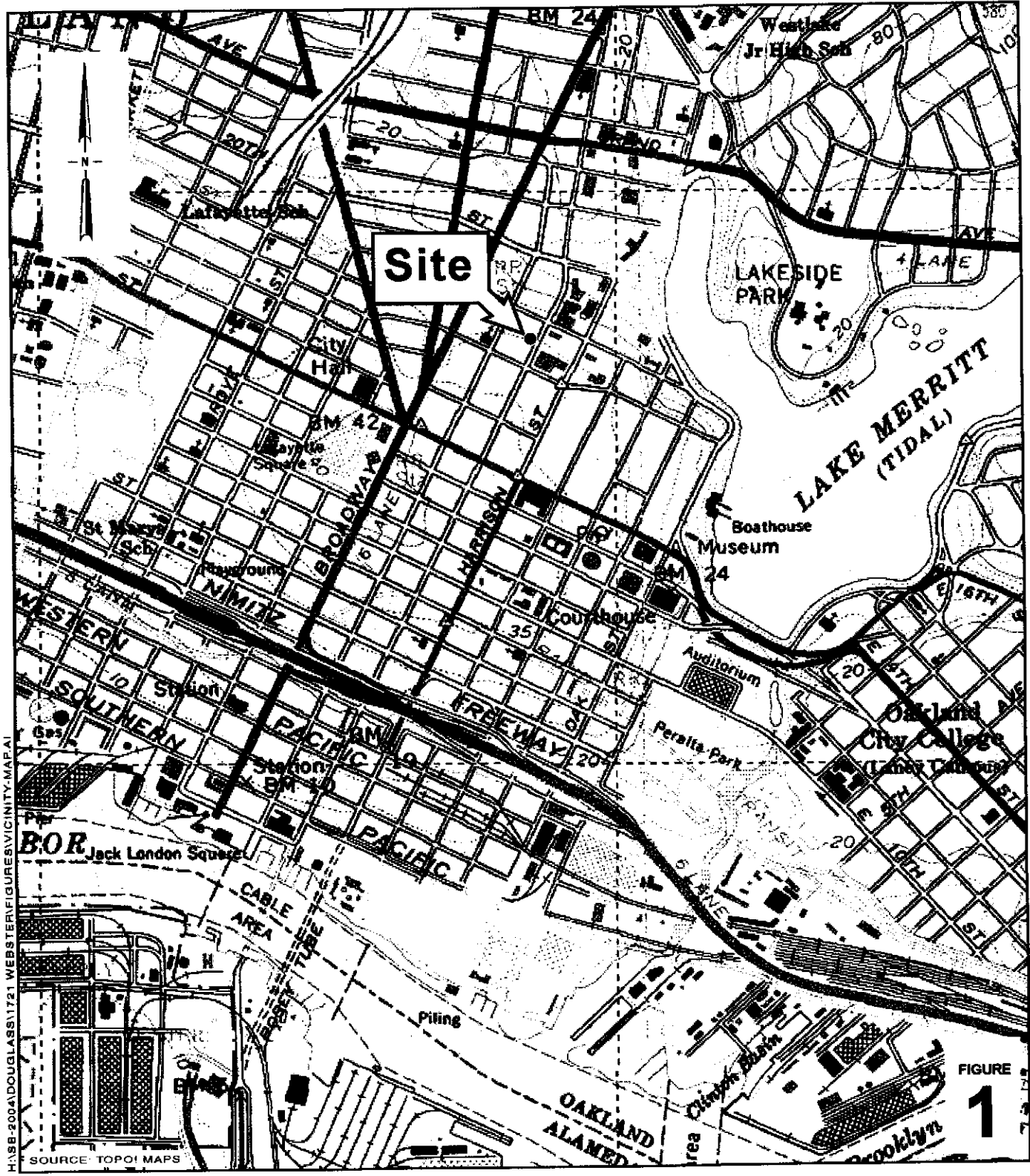
Appendix F – Geotracker Electronic Delivery Confirmations

Appendix G – Well Survey

Appendix H – Waste Manifest

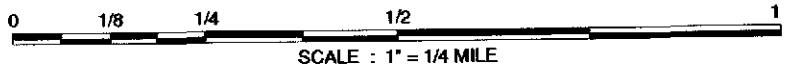
Appendix I – Background Information





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SOURCE: TOPOI MAPS



Douglas Parking Facility
 1721 Webster Street
 Oakland, California



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Vicinity Map

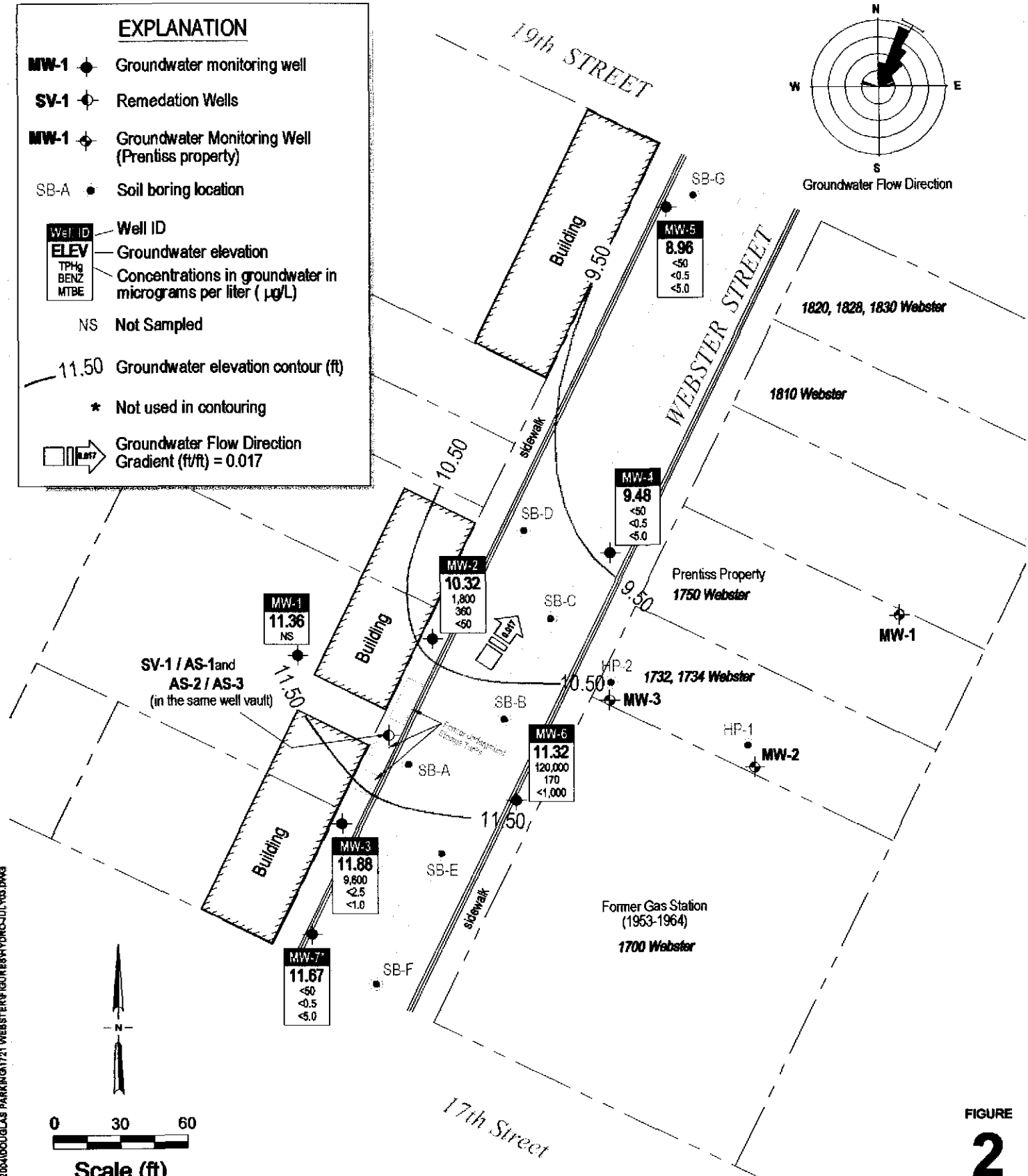
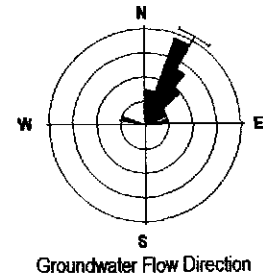
FIGURE 1

EXPLANATION

- MW-1** Groundwater monitoring well
- SV-1** Remediation Wells
- MW-1** Groundwater Monitoring Well (Prentiss property)
- SB-A** Soil boring location

Well ID	Well ID
ELEV	Groundwater elevation
TPHg	Concentrations in groundwater in micrograms per liter ($\mu\text{g/L}$)
BENZ	
MTBE	

- NS Not Sampled
- 11.50 Groundwater elevation contour (ft)
- * Not used in contouring
- Groundwater Flow Direction Gradient (ft/ft) = 0.017



H:\SB-2004\DOUGLAS PARKING\1721 WEBSTER\FIGURE\HYDRO\JULY03.DWG

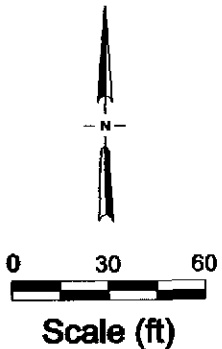


FIGURE 2

Douglas Parking Facility
 1721 Webster Street
 Oakland, California



Groundwater Elevation Contours and Hydrocarbon Concentration Map
 July 21, 2003

H:\SB-2004 (UST FUND)\DOUGLAS PARKING\1721 WEBSTER\FIGURES\SANBORN 1964.A1

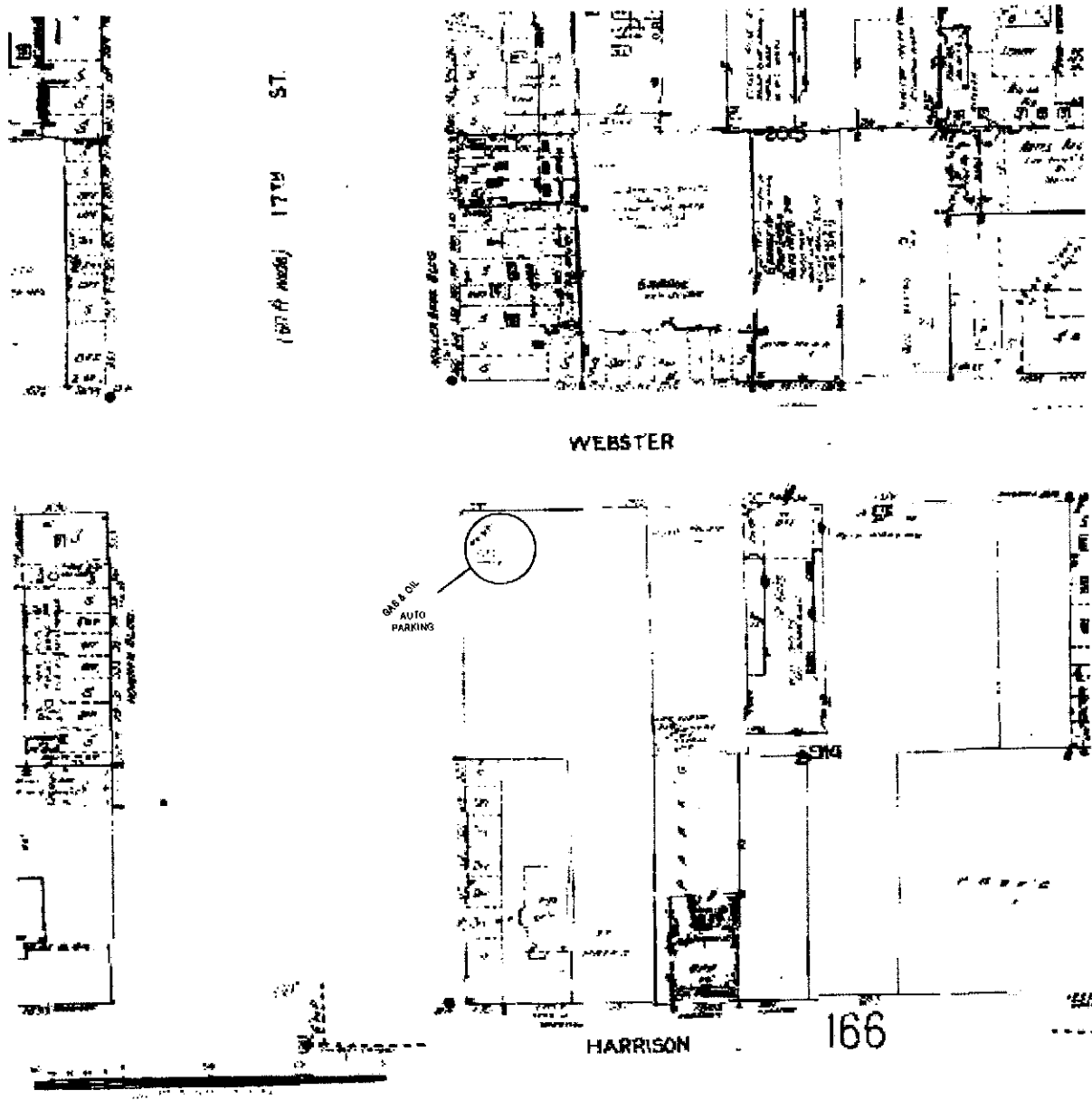


FIGURE
3

Douglas Parking
1721 Webster Street
Oakland, California



Sanborn Map
copyright 1964

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Table 1. Soil Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring/ Well ID	Date	Sample Depth (ft bgs)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
<i>Parker Environmental</i>							
T-1	8/3/1992	9	150	2.2	2.9	1.8	13
T-2	8/3/1992	9	120	0.62	0.56	0.87	2.2
T-3	8/3/1992	8	580	1.7	5.9	5.6	43
T-4	8/3/1992	8	1,500	11	140	48	280
T-5	8/3/1992	8	410	6.7	22	6.2	35
T-6	8/3/1992	12	1,400	12	70	29	150
T-7	8/3/1992	14	2.3	0.11	0.19	0.050	0.31
SW1	8/3/1992	9½	280	2.9	5.8	3.2	15
SW2	8/3/1992	7	1,500	5.7	40	18	150
SW3	8/3/1992	8	400	2.7	5.8	4.0	21
SW4	8/3/1992	9	2.3	0.42	0.028	0.077	0.18
<i>Gen Tech</i>							
EB-1	7/8/1994	10	ND	--	--	--	--
EB-1	7/8/1994	15	ND	--	--	--	--
EB-1	7/8/1994	20	trace	--	--	--	--
EB-1	7/8/1994	25	trace	--	--	--	--
EB-1	7/8/1994	30	ND	--	--	--	--
EB-2	7/8/1994	10	trace	--	--	--	--
EB-2	7/8/1994	15	600	--	--	--	--
EB-2	7/8/1994	20	500	--	--	--	--
EB-2	7/8/1994	25	1,000	--	--	--	--
EB-2	7/8/1994	30	ND	--	--	--	--
EB-3	7/8/1994	2	ND	--	--	--	--
EB-3	7/8/1994	5	trace	--	--	--	--
EB-3	7/8/1994	10	100	--	--	--	--
EB-3	7/8/1994	15	trace	--	--	--	--
EB-3	7/8/1994	20	100	--	--	--	--
EB-3	7/8/1994	30	ND	--	--	--	--
EB-4	7/8/1994	10	ND	--	--	--	--
EB-4	7/8/1994	15	trace	--	--	--	--
EB-4	7/8/1994	20	trace	--	--	--	--
EB-4	7/8/1994	30	ND	--	--	--	--
EB-5	7/8/1994	2	100	--	--	--	--
EB-5	7/8/1994	5	1,000	--	--	--	--
EB-5	7/8/1994	10	800	--	--	--	--
EB-5	7/8/1994	15	1,000	--	--	--	--
EB-5	7/8/1994	20	500	--	--	--	--

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Table 1. Soil Analytical Data - Douglas Parking Company, 1721 Webster Street, Oakland, California

Boring/ Well ID	Date	Sample Depth (ft bgs)	TPHg (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethylbenzene (mg/kg)	Xylenes (mg/kg)
EB-5	7/8/1994	30	ND	--	--	--	--
EB-6	7/8/1994	10	ND				
EB-6	7/8/1994	15	trace	--	--	--	--
EB-6	7/8/1994	20	1,000	--	--	--	--
EB-6	7/8/1994	30	ND	--	--	--	--
<i>Cambria Environmental Technology, Inc.</i>							
SB-A	2/22/1996	19.5	<1.0	<0.005	0.007	<0.005	<0.005
SB-B	2/22/1996	20.5	580	<0.3	1.3	1.8	4.2
SB-C	2/22/1996	19.5	1.4	<0.005	0.013	0.027	0.12
SB-D	2/22/1996	20.5	660	<0.2	2.3	<0.2	5.2
SB-E	2/23/1996	20.5	<1.0	<0.005	0.009	<0.005	<0.005
SB-F	2/23/1996	20.0	<1.0	<0.005	0.006	<0.005	<0.005
SB-G	2/23/1996	20.0	<1.0	<0.005	0.009	<0.005	<0.005
SB-H	5/3/1996	20.5	1.2	<0.005	0.006	0.025	0.038
(MW-4)	5/3/1996	31.0	<1.0	<0.005	<0.005	<0.005	<0.005
SB-I	5/3/1996	15.5	<1.0	<0.005	<0.005	<0.005	<0.005
(MW-5)	5/3/1996	26.0	<1.0	<0.005	<0.005	<0.005	<0.005
MW-6	6/27/2003	20.0	220	<0.10	0.14	<0.10	0.35

Notes and Abbreviations

Benzene, Toluene, Ethylbenzene, and Xylene by EPA Method 8021B

TPHg = Total petroleum hydrocarbons as gasoline per Modified EPA Method 8015

-- = Not analyzed or not available

ft bgs = feet below ground surface

mg/kg = milligrams per kilograms

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Table 2. Groundwater Elevation and Analytical Data
Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID (TOC)	Date	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
<i>Gen Tech</i>									
EB-1	7/8/1994	-	-	62,000	-	-	-	-	-
EB-2	7/8/1994	-	-	160,000	-	-	-	-	-
EB-3	7/8/1994	-	-	87,000	-	-	-	-	-
EB-4	7/8/1994	-	-	350,000	-	-	-	-	-
EB-5	7/8/1994	-	-	120,000	-	-	-	-	-
EB-6	7/8/1994	-	-	230,000	-	-	-	-	-
MW-1	12/2/1994	19.42	9.83	nd	nd	nd	nd	nd	-
29.25	3/6/1995	20.69	9.04	nd	nd	nd	nd	nd	-
29.73	7/11/1995	20.65	9.16	nd	nd	nd	nd	nd	-
29.81	5/10/1996	20.80	9.01	nd	nd	nd	nd	nd	-
	10/2/1996	21.35	8.46	-	-	-	-	-	-
	2/28/1997	20.57	9.24	-	-	-	-	-	-
	9/16/1997	21.50	8.31	-	-	-	-	-	-
	2/5/1998	20.91	8.90	-	-	-	-	-	-
	8/11/1998	20.50	9.31	-	-	-	-	-	-
	2/8/1999	21.42	8.39	-	-	-	-	-	-
	2/24/1999	22.99	6.82	-	-	-	-	-	-
	3/3/1999	20.84	8.97	-	-	-	-	-	-
	3/10/1999	20.89	8.92	-	-	-	-	-	-
	3/17/1999	20.84	8.97	-	-	-	-	-	-
	5/4/1999	20.80	9.01	-	-	-	-	-	-
	7/20/1999	21.25	8.56	-	-	-	-	-	-
	10/5/1999	21.37	8.44	-	-	-	-	-	-
	1/7/2000	21.65	8.16	-	-	-	-	-	-
	4/6/2000	21.05	8.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	21.13	8.68	-	-	-	-	-	-
	10/3/2000	21.69	8.12	-	-	-	-	-	-
	1/12/2001	22.00	7.81	-	-	-	-	-	-
	4/11/2001	22.16	7.65	-	-	-	-	-	-
	7/6/2001	22.57	7.24	-	-	-	-	-	-
	10/25/2001	22.71	7.10	-	-	-	-	-	-
	3/4/2002	22.53	7.28	-	-	-	-	-	-
	4/18/2002	22.81	7.00	-	-	-	-	-	-
	7/9/2002	22.95	6.86	-	-	-	-	-	-
	10/4/2002	23.13	6.68	-	-	-	-	-	-
	1/12/2003	22.05	7.76	-	-	-	-	-	-
	4/21/2003	21.17	8.64	-	-	-	-	-	-
32.75	7/21/2003	21.39	11.36	-	-	-	-	-	-
MW-2	12/2/1994	19.50	7.60	61,300	3,000	3,900	160	4,500	-
27.10	3/6/1995	18.49	8.61	98,000	8,400	16,000	2,000	2,600	-
27.40	7/11/1995	18.45	8.95	38,000	3,100	7,500	940	3,700	-
	5/10/1996	18.56	8.84	63,000	7,400	16,000	1,500	6,000	-
	10/2/1996	19.15	8.25	21,000	2,200	3,400	430	1,600	-
	2/28/1997	18.43	8.97	39,000	4,700	9,600	950	4,200	nd
	9/16/1997	19.26	8.14	29,000	3,300	5,800	690	2,900	<620

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Table 2. Groundwater Elevation and Analytical Data

Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID (TOC)	Date	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-2	2/5/1998	18.66	8.74	10,000	1,000	2,000	170	860	<330
(cont'd)	8/11/1998	18.41	8.99	12,000	1,200	2,300	260	1,400	300
	2/8/1999	19.84	7.56	5,500	740	1,200	150	780	60
	2/17/1999	18.94	8.46	-	-	-	-	-	-
	2/24/1999	20.76	6.64	-	-	-	-	-	-
	3/3/1999	18.55	8.85	-	-	-	-	-	-
	3/10/1999	20.74	6.66	-	-	-	-	-	-
	3/17/1999	18.57	8.83	-	-	-	-	-	-
	5/4/1999	18.55	8.85	90,000	9,200	21,000	1,600	10,000	560
	7/20/1999	18.98	8.42	28,000	2,100	3,700	900	4,200	<860
	10/5/1999	19.10	8.30	11,000	870	180	30	1,400	<110
	1/7/2000	19.41	7.99	15,000	1,300	2,100	440	1,800	<14
	4/6/2000	18.80	8.60	17,000	1,800	3,100	500	2,200	<50
	7/31/2000	18.87	8.53	17,000	1,500	2,700	430	2,100	<200
	10/3/2000	19.45	7.95	27,000	2,500	4,000	660	2,900	<50
	1/12/2001	19.80	7.60	25,000	2,700	4,100	670	3,000	<200
	4/11/2001	20.03	7.37	97,000	9,500	21,000	2,200	7,900	<200
	7/6/2001	20.19	7.21	3,500	500	150	11	420	<5.0
	10/25/2001	20.35	7.05	3,800	620	230	70	400	<50
	3/4/2002	20.37	7.03	46,000	7,300	12,000	870	3,200	<500
	4/18/2002	20.15	7.25	68,000	5,100	8,900	1,100	4,000	<1,000
	7/9/2002	21.09	6.31	1,000	200	8.9	0.67	82	<10
	10/4/2002	21.28	6.12	270	100	3.4	0.53	10	<5.0
	1/12/2003	20.59	6.81	67,000	7,600	13,000	1,400	5,600	<500
	4/21/2003	19.98	7.42	78,000	7,700	12,000	1,900	6,900	<500
30.40	7/21/2003	20.08	10.32	1,800	360	16	<5.0	190	<50
MW-3	12/2/1994	22.15	7.35	394,000	1,200	nd	1,800	4,000	-
29.50	3/6/1995	20.09	9.16	21,000	400	150	24	62	-
29.25	7/11/1995	19.99	9.57	12,000	nd	10	16	99	-
29.56	5/10/1996	20.24	9.32	8,600	nd	7.6	16	84	-
	10/2/1996	20.90	8.66	11,000	nd	7.4	19	92	-
	2/28/1997	20.12	9.44	6,000	nd	4.4	17	88	50
	9/16/1997	20.97	8.59	6,500	<0.5	1	1	7	<5.0
	2/5/1998	20.39	9.17	5,400	<0.5	6.3	15	86	<63
	8/11/1998	19.95	9.61	2,700	<0.5	3.5	3.2	12	<10
	2/8/1999	20.58	8.98	6,100	<0.5	8.1	18	80	<140
	2/17/1999	20.53	9.03	-	-	-	-	-	-
	2/24/1999	22.53	7.03	-	-	-	-	-	-
	3/3/1999	20.28	9.28	-	-	-	-	-	-
	3/10/1999	22.45	7.11	-	-	-	-	-	-
	3/17/1999	20.26	9.30	-	-	-	-	-	-
	5/4/1999	20.24	9.32	11,000	<2	<2	9.8	140	<10
	7/20/1999	20.68	8.88	11,000	<0.5	3.1	13	88	<80
	10/5/1999	20.81	8.75	31,000	62	<0.5	21	170	<90
	1/7/2000	21.09	8.47	13,000	<0.5	<2	21	140	<80
	4/6/2000	20.48	9.08	5,300	1.5	1.4	9.8	60	<30
	7/31/2000	20.62	8.94	7,100	3.5	1.0	12	66	<5.0
	10/3/2000	21.13	8.43	8,000	<0.5	3.3	11	70	<40
	1/12/2001	21.45	8.11	11,000	4.3	6.7	11	73	<70
	4/11/2001	21.69	7.87	10,000	<0.5	<0.5	11	65	<10
	7/6/2001	21.60	7.96	13,000	5.3	1.6	11	58	<5.0
	10/25/2001	21.70	7.86	11,000	<0.5	3.0	15	70	<10
	3/4/2002	21.65	7.91	1,900	1.3	0.8	<0.5	15	<5.0

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Table 2. Groundwater Elevation and Analytical Data
Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID (TOC)	Date	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-3	4/18/2002	21.77	7.79	1,500	1.0	0.97	1.3	5.8	<5
(cont'd)	7/9/2002	22.03	7.53	13,000	6.8	5.7	13	59	<90
	10/4/2002	22.15	7.41	8,400	<10	<10	<10	42	<100
	1/12/2003	21.13	8.43	9,000	9.5	5.1	8.5	46	<90
	4/21/2003	20.63	8.93	10,000	<5.0	<5.0	8.5	32	<50
32.56	7/21/2003	20.68	11.88	9,600	<2.5	<2.5	7.4	39	48, (<1.0)
MW-4	5/10/1996	16.98	8.31	14,000	nd	1,200	720	3,100	-
25.29	10/2/1996	17.65	7.64	12,000	nd	650	580	2,200	-
	2/28/1997	16.80	8.49	13,000	nd	1,100	750	2,700	110
	9/17/1997	17.93	7.36	13,000	<2.5	820	750	2,900	<190
	2/5/1998	16.78	8.51	13,000	<1.0	690	690	2,900	<170
	8/11/1998	16.59	8.70	15,000	<5	360	520	1,900	280
	2/8/1999	17.10	8.19	9,800	<5	680	770	2,200	300
	2/24/1999	18.95	6.34	-	-	-	-	-	-
	3/3/1999	16.80	8.49	-	-	-	-	-	-
	3/10/1999	16.86	8.43	-	-	-	-	-	-
	3/17/1999	16.82	8.47	-	-	-	-	-	-
	5/4/1999	16.86	8.43	11,000	46	600	620	1,900	<100
	7/20/1999	17.30	7.99	13,000	<0.5	470	7.0	2,000	<150
	10/5/1999	17.43	7.86	18,000	4.4	720	800	2,100	<120
	1/7/2000	17.78	7.51	18,000	<2	930	990	2,700	<30
	4/6/2000	17.17	8.12	8,000	31	390	530	1,300	<10
	7/31/2000	17.21	8.08	6,200	13	170	460	850	<10
	10/3/2000	18.00	7.29	14,000	42	820	730	2,000	<50
	1/12/2001	18.20	7.09	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	18.31	6.98	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	18.35	6.94	470	2.3	1.6	0.81	43	<5.0
	10/25/2001	18.47	6.82	110	0.70	<0.5	<0.5	3.3	<5.0
	3/4/2002	18.43	6.86	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	18.61	6.68	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	19.50	5.79	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/4/2002	19.83	5.46	310	2.0	2.9	13	16	<0.5
	1/12/2003	19.07	6.22	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	18.71	6.58	<50	<0.5	<0.5	<0.5	<0.5	<5.0
28.29	7/21/2003	18.81	9.48	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-5	5/10/1996	14.60	7.37	nd	nd	nd	nd	nd	-
21.97	10/2/1996	15.25	6.72	nd	nd	nd	nd	nd	-
	2/28/1997	14.31	7.66	nd	nd	nd	nd	nd	nd
	9/17/1997	15.18	6.79	<0.5	<0.5	<0.5	<0.5	<0.5	<5.0
	2/5/1998	13.64	8.33	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	8/11/1998	13.92	8.05	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/8/1999	14.19	7.78	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	2/24/1999	16.18	5.79	-	-	-	-	-	-
	3/3/1999	14.23	7.74	-	-	-	-	-	-
	3/10/1999	14.32	7.65	-	-	-	-	-	-
	3/17/1999	14.25	7.72	-	-	-	-	-	-
	5/4/1999	14.41	7.56	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/20/1999	14.44	7.53	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/5/1999	14.79	7.18	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/7/2000*	15.23	6.74	-	-	-	-	-	-
	4/6/2000	14.74	7.23	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/31/2000	14.52	7.45	<50	<0.5	<0.5	<0.5	<0.5	<5.0

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Table 2. Groundwater Elevation and Analytical Data
Douglas Parking Company, 1721 Webster Street, Oakland, CA

Well ID (TOC)	Date	Depth to Water (ft)	Groundwater Elevation (ft)	TPHg (µg/L)	Benzene (µg/L)	Toluene (µg/L)	Ethylbenzene (µg/L)	Xylenes (µg/L)	MTBE (µg/L)
MW-5	10/3/2000	15.37	6.60	<50	<0.5	<0.5	<0.5	<0.5	<5.0
(cont'd)	1/12/2001	15.70	6.27	6,400	13	290	450	1,100	<40
	4/11/2001	15.78	6.19	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	15.97	6.00	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	10/25/2001	16.05	5.92	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	16.21	5.76	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/18/2002	16.59	5.38	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/9/2002	16.94	5.03	170	1.0	0.65	2.1	4.0	<15
	10/4/2002	17.14	4.83	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	1/12/2003	16.58	5.39	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/21/2003	15.90	6.07	<50	<0.5	<0.5	<0.5	<0.5	<5.0
24.99	7/21/2003	16.03	8.96	<50	<0.5	<0.5	<0.5	<0.5	<5.0
MW-6	6/30/2003	19.60	11.39	68,000	950	6,000	2,400	10,000	<1,000
30.99	7/21/2003	19.67	11.32	120,000	170	1,400	1,100	10,000	<1,000
MW-7	6/30/2003	21.40	11.71	170	<0.5	2.1	2.0	8.7	<5.0
33.11	7/21/2003	21.44	11.67	<50	<0.5	<0.5	<0.5	<0.5	<5.0
Trip Blank	1/12/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	4/11/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	7/6/2001	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0
	3/4/2002	-	-	<50	<0.5	<0.5	<0.5	<0.5	<5.0

Notes and Abbreviations:

* = Well inaccessible

<nd = Below detection limit

TOC = top of casing elevations in feet above mean sea level

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, and Xylenes by EPA Method 8020

MTBE = methyl tertiary butyl ether by EPA Method 8021B, and by EPA Method 8260 in parenthesis

µg/L = micrograms per liter

-- = Not analyzed or not available

ft-msl = feet above mean sea level

Data prior to 7/11/95 from Gen Tech and Piers Environmental Quarterly Groundwater Monitoring Reports dated December 2, 1994 and March 6, 1995, respectively.

Sampling no longer required in well MW-1 per September 17, 1996, ACDEH letter to Douglas Parking.

On July 31, 2003, Virgil Chavez Land Surveying of Vallejo, California surveyed monitoring wells using a benchmark in the top of the curb near the SW return of the NW corner of 34th and Broadway

APPENDIX A

Agency Correspondence

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



May 23, 2002

Mr. Charles Sumner II
Prentiss Properties
2485 Natomas Park Drive, Suite 350
Sacramento, CA 95833

ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

Re: 1721 and 1750 Webster St., Oakland, CA 94607

Dear Mr. Sumner:

This letter responds to your inquiry regarding the status of the subsurface investigation at 1721 Webster St., Oakland CA 94607 aka the Douglas Parking site. A work plan for the installation of two up-gradient monitoring wells has been submitted and approved in my April 29, 2002 letter, copy enclosed. The wells are to be installed "as soon as possible". You will also notice that our office is requesting information about and the performance of the previously proposed soil vapor extraction/air sparge test at this site. Hopefully, this will prove to be an appropriate remediation approach for the site.

I noticed in your letter that you have commenced development feasibility reevaluation for the 1750 Webster St. property. You are reminded that groundwater contamination at this site was deemed not to pose a risk to the development of a non-enclosed parking lot ie little to no indoor air exposure. If your future plans include indoor air exposures, a revised risk assessment will be required. It would also be advisable to resample the wells on your property to obtain current data to evaluate risk. Lastly, be advised that I am your new caseworker.

You may contact me at (510) 567-6765 with questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

Enclosure (Mr. Sumner)

C: B. Chan, files

Mr. Lee Douglas, 1721 Webster St., Oakland, CA 94607

Mr. B. Clark-Riddell, Cambria Environmental, 1144 65th St., Suite B, Oakland CA 94608

Stat1721&1750WebsterSt

ALAMEDA COUNTY
HEALTH CARE SERVICES

AGENCY
DAVID J. KEARS, Agency Director



ENVIRONMENTAL HEALTH SERVICES
ENVIRONMENTAL PROTECTION
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577
(510) 567-6700
FAX (510) 337-9335

April 29, 2002
StID 4070/RO0000129

Mr. Lee Douglas
Douglas Parking
1721 Webster St.

Re: Subsurface Investigation Workplan, 1721 Webster St., Oakland, CA 94607

Dear Mr. Douglas:

Our office has received and reviewed the March 28, 2002 Subsurface Investigation Workplan for the referenced site prepared by Cambria Environmental, your consultant. The work plan proposes the installation of two monitoring wells (MW-6 and MW-7) to further characterize the hydrocarbon contaminant plume. This work plan is approved and the wells should be installed as soon as possible. Please include the analysis of the following oxygenates and lead scavengers, TAME, ETBE, DIPE, TBA, EDB and EDC in addition to MTBE in the two highest impacted wells.

Our office would also like additional information regarding the proposed soil vapor extraction/air sparge tests, which we have previously approved. Please provide a cross-sectional diagram of the existing remediation wells and describe how each of the tests will be performed and evaluated. We understand that based upon the results of the tests, a recommendation for the most appropriate remediation will be made. These results may also affect our prior recommendation to not proceed with a three month biosparge test.

You may contact me at (510) 567-6765 if you have any questions.

Sincerely,

Barney M. Chan
Hazardous Materials Specialist

C: B. Chan, files

Mr. B. Clark-Riddell, Cambria Environmental, 1144 65th St., Suite B, Oakland
CA 94608

Mr. H. Patel, SWRCB, 1001 I St., 17th Floor, Sacramento, CA 95814-2828

Wpap1721WebsterSt

APPENDIX B

Standard Field Procedures

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STANDARD FIELD PROCEDURES FOR SOIL BORINGS AND MONITORING WELLS

This document presents standard field methods for drilling and sampling soil borings and installing, developing and sampling groundwater monitoring wells. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

SOIL BORINGS

Objectives

Soil samples are collected to characterize subsurface lithology, assess whether the soils exhibit obvious hydrocarbon or other compound vapor or staining, and to collect 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).

Soil Boring and Sampling

Soil borings are typically drilled using hollow-stem augers or direct-push technologies such as the Geoprobe[®]. Soil samples are collected at least every five ft to characterize the subsurface sediments and for possible chemical analysis. Additional soil samples are collected near the water table and at lithologic changes. Samples are collected using lined split-barrel or equivalent samplers driven into undisturbed sediments at the bottom of the borehole.

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

Sampling tubes chosen for analysis are trimmed of excess soil and capped with Teflon tape and plastic end caps. Soil samples are labeled and stored at or below 4° C on either crushed or dry ice, depending upon local regulations. Samples are transported under chain-of-custody to a State-certified analytic laboratory.

Field 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 volatile vapor analyzer measures volatile hydrocarbon vapor concentrations in the tube headspace, extracting the vapor through a slit in the cap. Volatile vapor analyzer measurements are used along with the field observations, odors, stratigraphy and groundwater depth to select soil samples for analysis.

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Water Sampling

Water samples, if they are collected from the boring, are either collected using a driven Hydropunch® type sampler or are collected from the open borehole using bailers. The groundwater samples are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 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.

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.

MONITORING WELL INSTALLATION, DEVELOPMENT AND SAMPLING

Well Construction and Surveying

Groundwater monitoring wells are installed to monitor groundwater quality and determine the groundwater elevation, flow direction and gradient. Well depths and screen lengths are based on groundwater depth, occurrence of hydrocarbons or other compounds in the borehole, stratigraphy and State and local regulatory guidelines. Well screens typically extend 10 to 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 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 Portland type I,II cement.

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.

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Well Development

Wells are generally developed using a combination of groundwater surging and extraction. Surging agitates the groundwater and dislodges fine sediments from the sand pack. After about ten minutes of surging, groundwater 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 groundwater are extracted and the sediment volume in the groundwater is negligible. This process usually occurs prior to installing the sanitary surface seal to ensure sand pack stabilization. If development occurs after surface seal installation, then development occurs 24 to 72 hours after seal installation to ensure that the Portland cement has set up correctly.

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.

Groundwater Sampling

Depending on local regulatory guidelines, three to four well-casing volumes of groundwater are purged prior to sampling. Purging continues until groundwater pH, conductivity, and temperature have stabilized. Groundwater samples are collected using bailers or pumps and are decanted into the appropriate containers supplied by the analytic laboratory. Samples are labeled, placed in protective foam sleeves, stored on crushed ice at or below 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.

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SOIL STOCKPILE SAMPLING PROCEDURES

Soil excavation is often completed to remove contaminant-bearing soils. The removed soils are typically stockpiled onsite and sampled. Cambria has developed standard sampling procedures to characterize stockpiled soils for onsite or offsite treatment, reuse or disposal. The procedures ensure that the samples are collected, handled, and documented in compliance with Federal, State and local regulatory agency guidelines.

Cambria's stockpile sampling procedures are consistent with EPA SW-846 methods and are designed to ensure representative sampling as required by disposal facilities, when used. Procedures conform with Bay Area Air Quality Management District¹, San Joaquin Valley Unified Air Pollution Control District², and other oversight agency regulations. Sampling plans are determined on a site-specific basis and, typically, one composite soil sample is collected for every 50 cubic yards of excavated soil. Each composite sample consists of four discreet soil samples collected from the stockpile which are combined in the laboratory. The samples are collected by dividing each 50 cubic yard volume into 4 sectors. One discreet soil sample is collected from each sector.

The samples are collected by digging away approximately 2 ft of the surface soils. A clean brass tube is then driven into the exposed soils. The ends of the tube are trimmed flush, capped with Teflon tape and plastic end caps, labeled, refrigerated and transported under chain of custody to a State certified laboratory.

¹ San Francisco Bay Area Air Quality Management District, 1989, Regulation 8, Organic Compounds, Rule 40, Aeration of Contaminated Soil and Removal of Underground Storage Tanks, February 15, 1989 7 pp.

² San Joaquin Valley Unified Air Pollution Control District, 1992, Rule 4651, Volatile Organic Compound Emissions from Decontamination of Soil, December 17, 1992

APPENDIX C

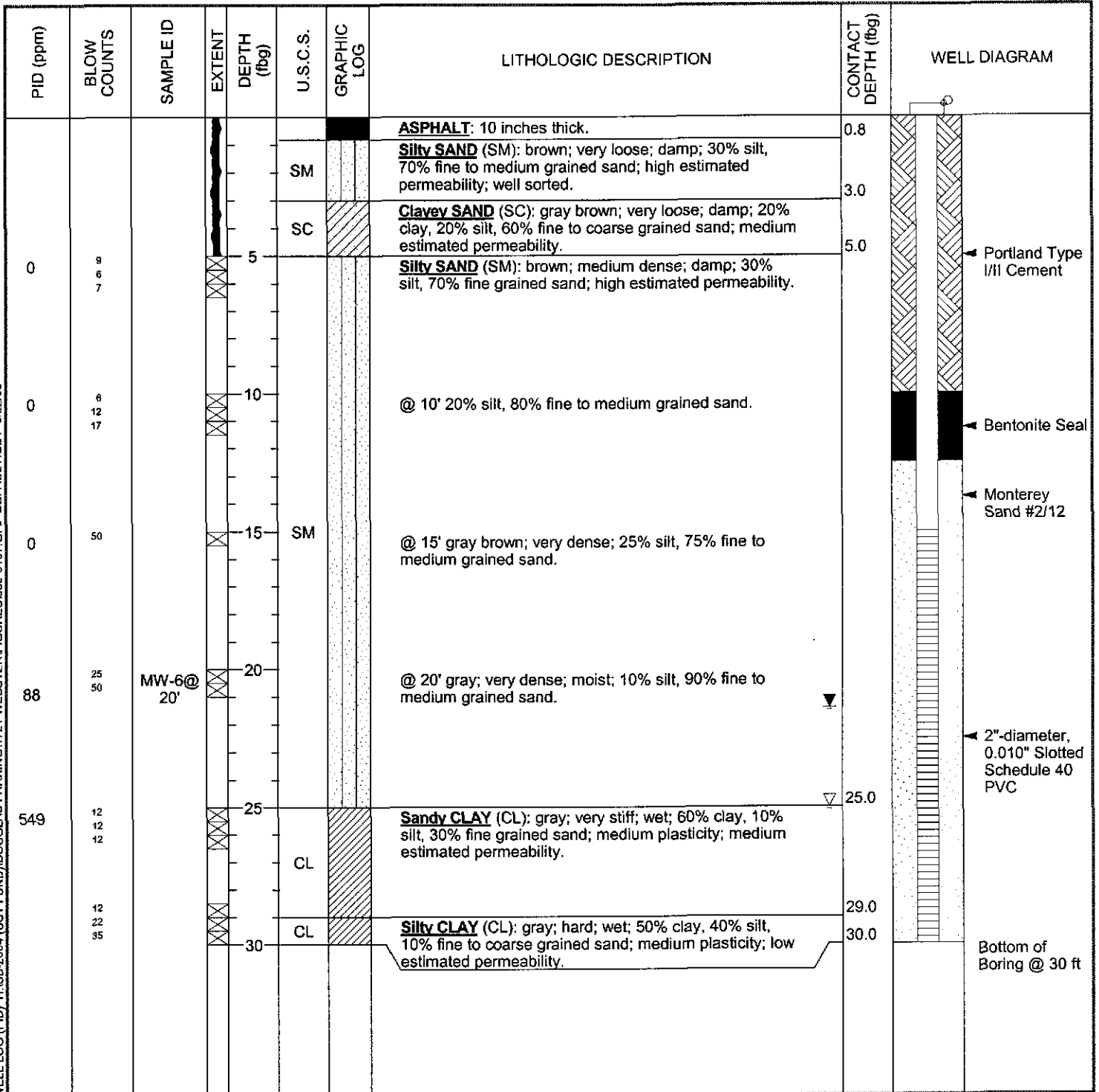
Boring Logs and Well Construction Details, Permits, and
DWR Well Completion Reports



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Douglas Parking Company	BORING/WELL NAME	MW-6
JOB/SITE NAME	Webster	DRILLING STARTED	27-Jun-03
LOCATION	1721 Webster Street, Oakland, CA.	DRILLING COMPLETED	27-Jun-03
PROJECT NUMBER	580-0197	WELL DEVELOPMENT DATE (YIELD)	30-Jun-03 (6 gallons)
DRILLER	Woodward Drilling	GROUND SURFACE ELEVATION	31 ft above msl
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	30.99 ft above msl
BORING DIAMETER	8"	SCREENED INTERVAL	15 to 30 ft bgs
LOGGED BY	R. Fennell	DEPTH TO WATER (First Encountered)	25.0 ft (27-Jun-03)
REVIEWED BY	Mary C. Holland-Ford R.G. #7551	DEPTH TO WATER (Static)	21.40 ft (30-Jun-03)
REMARKS	Hand augered to 5' bgs.		



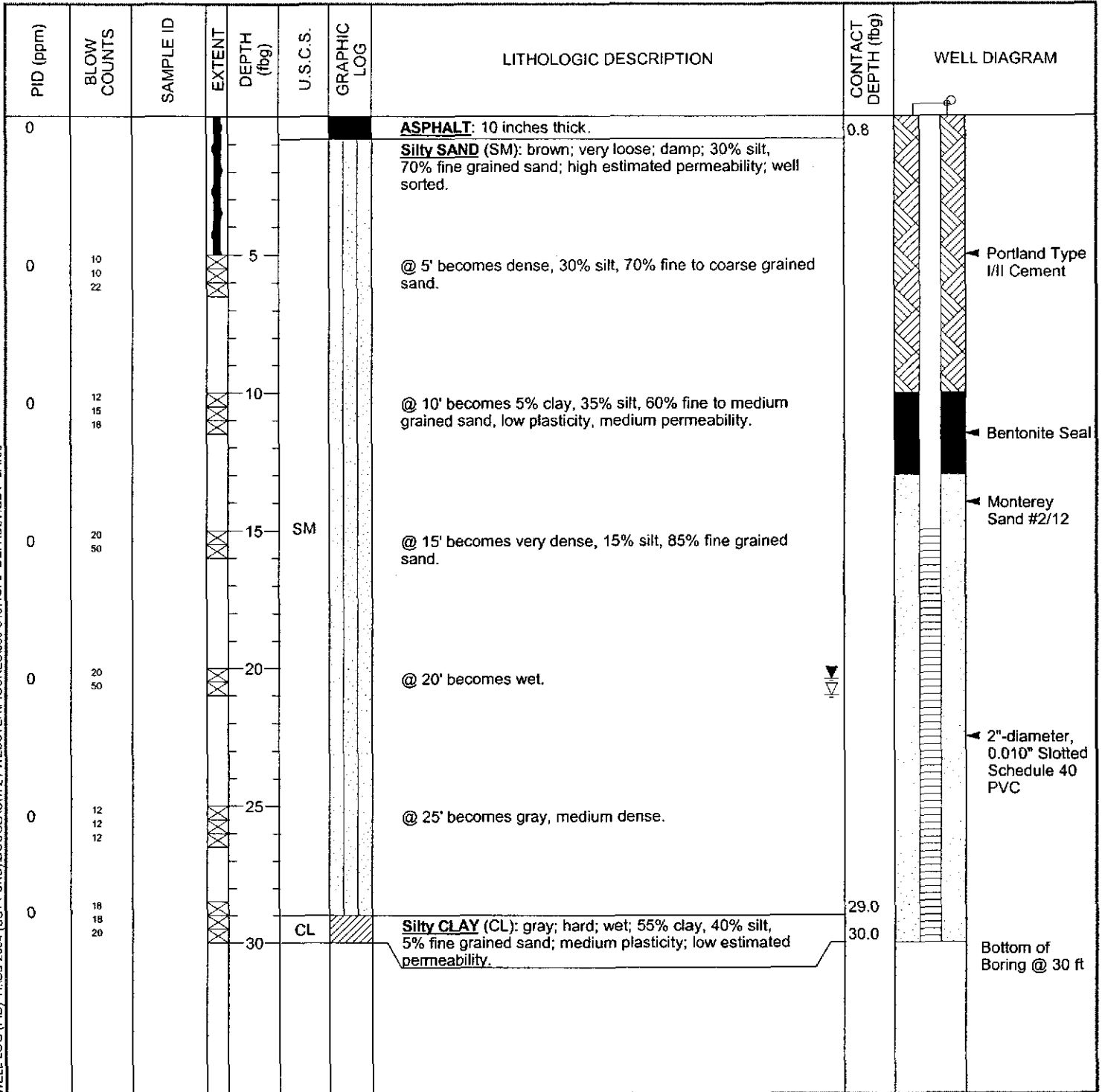
WELL LOG (PID) H:\SB-2004 (UST FUND)\DOUGLAS PARKING\1721 WEBSTER\FIGURES\580-0197.GPJ_DEFAULT.GDT 9/22/03



Cambria Environmental Technology, Inc.
 5900 Hollis Street, Suite A
 Emeryville, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Douglas Parking Company	BORING/WELL NAME	MW-7
JOB/SITE NAME	Webster	DRILLING STARTED	27-Jun-03
LOCATION	1721 Webster Street, Oakland, CA.	DRILLING COMPLETED	27-Jun-03
PROJECT NUMBER	580-0197	WELL DEVELOPMENT DATE (YIELD)	30-Jun-03 (10 gallons)
DRILLER	Woodward Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger	TOP OF CASING ELEVATION	NA
BORING DIAMETER	8"	SCREENED INTERVAL	15 to 30 ft bgs
LOGGED BY	R. Fennell	DEPTH TO WATER (First Encountered)	21.0 ft (27-Jun-03) ▼
REVIEWED BY	Mary C. Holland-Ford R.G. #7551	DEPTH TO WATER (Static)	20.40 ft (27-Jun-03) ▼
REMARKS	Hand augered to 5' bgs.		



WELL LOG (PID) H:\SB-2004 (JUST FUND)\DOUGLAS\1721 WEBSTER\FIGURES\580-0197.GPJ DEFAULT.GDT 8/4/03



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. MAYFIELD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510) 782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1721 WEBSTER ST
OAKLAND, CA, 94612

PERMIT NUMBER W03-0537
WELL NUMBER _____
APN _____

Grade of 17th + WEBSTER

PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT
Name LEE DOUGLAS
Address 1721 Webster St Phone _____
City Oakland CA Zip 94612

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT
Name CAMBRIA ENVIRONMENTAL
ROWAN FENNEL Fax 510 420 4170
Address 5700 HOLLIS #A Phone 510 420 3319
City EMERYVILLE, CA Zip 94608

B. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

TYPE OF PROJECT

Well Construction		Geotechnical Investigation	
Cathodic Protection	<input type="checkbox"/>	General	<input type="checkbox"/>
Water Supply	<input type="checkbox"/>	Contamination	<input type="checkbox"/>
Monitoring	<input checked="" type="checkbox"/>	Well Destruction	<input type="checkbox"/>

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

PROPOSED WATER SUPPLY WELL USE

New Domestic	<input type="checkbox"/>	Replacement Domestic	<input type="checkbox"/>
Municipal	<input type="checkbox"/>	Irrigation	<input type="checkbox"/>
Industrial	<input type="checkbox"/>	Other	<input type="checkbox"/>

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

DRILLING METHOD:

Mud Rotary	<input type="checkbox"/>	Air Rotary	<input type="checkbox"/>	Auger	<input checked="" type="checkbox"/>
Cable	<input type="checkbox"/>	Other	<input type="checkbox"/>		

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

DRILLER'S NAME WOODWARD DRILLING

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

DRILLER'S LICENSE NO. C-57 # 710079

G. SPECIAL CONDITIONS

SC# 7 Attached

WELL PROJECTS

Drill Hole Diameter	<u>8</u> in.	Maximum	
Chasing Diameter	<u>2</u> in.	Depth	<u>20</u> ft
Surface Seal Depth	<u>3</u> ft	Owner's Well Number	<u>MW-6</u>

needs to be 5ft min

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

GEOTECHNICAL PROJECTS

Number of Borings		Maximum	
Hole Diameter	in	Depth	ft

ESTIMATED STARTING DATE JUNE 27, 2003

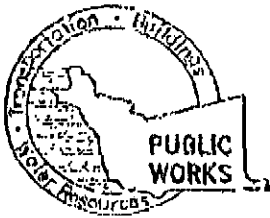
APPROVED _____ DATE 5/29/03

ESTIMATED COMPLETION DATE JULY 27, 2003

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Rowan Fenell DATE 5/28/03

PLEASE PRINT NAME: Rowan Fenell Rev. 3-04-02



ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. WAYWARD CA. 94544-1395
PHONE (510) 670-6633 James Yoo
FAX (510)782-1939

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS
DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT 1721 WEBSTER ST
OAKLAND, CA 94612
1721 WEBSTER

PERMIT NUMBER W03-0538
WELL NUMBER _____
APN _____

CLIENT
Name L.E. DUNLAP
Address 1721 WEBSTER Phone _____
City OAKLAND, CA Zip 94612

APPLICANT
Name CATERINA ENVIRONMENTAL
POWELL FENNEL Phone 510-420-9170
Address 3920 HILTON ST. H.A. Phone 510-420-5319
City EMERYVILLE, CA Zip 94608

TYPE OF PROJECT
Well Construction Geotechnical Investigation
Cathodic Protection General
Water Supply Contamination
Monitoring Well Destruction

PROPOSED WATER SUPPLY WELL USE
New Domestic Replacement Domestic
Municipal Irrigation
Industrial Other _____

DRILLING METHOD:
Mud Rotary Air Rotary Auger
Cable Other

DRILLER'S NAME Woodward Drilling
DRILLER'S LICENSE NO. CS-57 # 710079

WELL PROJECTS
Drill Hole Diameter 6 in. Maximum Depth 30 ft
Casing Diameter 2 in. Owner's Well Number MW-7
Surface Seal Depth 20 ft

GEOTECHNICAL PROJECTS
Number of Borings _____ Maximum Depth _____ ft
Hole Diameter _____ in.

ESTIMATED STARTING DATE 7/27/03
ESTIMATED COMPLETION DATE 7/27/03

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

APPLICANT'S SIGNATURE Powell Fennel DATE 5/28/03
PLEASE PRINT NAME Powell Fennel Rev.3-04-02

PERMIT CONDITIONS

Circled Permit Requirements Apply

A. GENERAL

1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources Well Completion Report.
3. Permit is void if project not begun within 90 days of approval date.

D. WATER SUPPLY WELLS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.

C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal thickness is two inches of cement grout placed by tremie.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.

D. GEOTECHNICAL

Backfill bore hole by tremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings.

E. CATHODIC

Fill hole anode zone with concrete placed by tremie.

F. WELL DESTRUCTION

Send a map of work site. A separate permit is required for wells deeper than 45 feet.

G. SPECIAL CONDITIONS

SC# 1 Attached.

NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.

APPROVED

DATE

[Signature] 5-29-03

EXCAVATION PERMIT

TO EXCAVATE IN STREETS OR OTHER SPECIFIED WORK

CIVIL
ENGINEERING

PAGE 2 of 2

Permit valid for 90 days from date of issuance.

PERMIT NUMBER X0300576		SITE ADDRESS/LOCATION 1721 WEBSTER ST / OAKLAND, CA
APPROX. START DATE 6/27/03	APPROX. END DATE 6/27/03	24-HOUR EMERGENCY PHONE NUMBER (Permit not valid without 24-Hour number) 510
CONTRACTOR'S LICENSE # AND CLASS 710079 C-57		CITY BUSINESS TAX # 444-677

ATTENTION:

- State law requires that the contractor/owner call Underground Service Alert (USA) two working days before excavating. This permit is not valid unless applicant has secured an inquiry identification number issued by USA. The USA telephone number is 1-800-642-2444. Underground Service Alert (USA) # **0222A03**
- 48 hours prior to starting work, you MUST CALL (510) 238-3651 to schedule an inspection.
- 48 hours prior to re-paving, a compaction certificate is required (waived for approved slurry backfill).

OWNER/BUILDER

I hereby affirm that I am exempt from the Contractor's License Law for the following reason (Sec. 7031.5 Business and Professions Code: Any city or county which requires a permit to construct, alter, improve, demolish, or repair any structure, prior to its issuance, also requires the applicant for such permit to file a signed statement that he is licensed pursuant to the provisions of the Contractor's License Law Chapter 9 (commencing with Sec. 7000) of Division 3 of the Business and Professions Code, or that he is exempt therefrom and the basis for the alleged exemption. Any violation of Section 7031.5 by any applicant for a permit subjects the applicant to a civil penalty of not more than \$500):

I, as an owner of the property, or my employees with wages as their sole compensation, will do the work, and the structure is not intended or offered for sale (Sec. 7044, Business Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who does such work himself or through his own employees, provided that such improvements are not intended or offered for sale. If however, the building or improvement is sold within one year of completion, the owner-builder will have the burden of proving that he did not build or improve for the purpose of sale).

I, as owner of the property, am exempt from the sale requirements of the above due to: (1) I am improving my principal place of residence or appurtenances thereto, (2) the work will be performed prior to sale, (3) I have resided in the residence for the 12 months prior to completion of the work, and (4) I have not claimed exemption on this subdivision on more than two structures more than once during any three-year period. (Sec. 7044 Business and Professions Code).

I, as owner of the property, am exclusively contracting with licensed contractors to construct the project, (Sec. 7044, Business and Professions Code: The Contractor's License Law does not apply to an owner of property who builds or improves thereon, and who contracts for such projects with a contractor(s) licensed pursuant to the Contractor's License law).

I am exempt under Sec. _____, B&PC for this reason _____

WORKER'S COMPENSATION

I hereby affirm that I have a certificate of consent to self-insure, or a certificate of Worker's Compensation Insurance, or a certified copy thereof (Sec. 3700, Labor Code).

Policy # _____ Company Name **CAMBRIA ENVIRONMENTAL TECHNOLOGY, INC**

I certify that in the performance of the work for which this permit is issued, I shall not employ any person in any manner so as to become subject to the Worker's Compensation Laws of California (not required for work valued at one hundred dollars (\$100) or less).

NOTICE TO APPLICANT: If, after making this Certificate of Exemption, you should become subject to the Worker's Compensation provisions of the Labor Code, you must forthwith comply with such provisions or this permit shall be deemed revoked. This permit is issued pursuant to all provisions of Title 12 Chapter 12.12 of the Oakland Municipal Code. It is granted upon the express condition that the permittee shall be responsible for all claims and liabilities arising out of work performed under the permit or arising out of permittee's failure to perform the obligations with respect to street maintenance. The permittee shall, and by acceptance of the permit agrees to defend, indemnify, save and hold harmless the City, its officers and employees, from and against any and all suits, claims, or actions brought by any person for or on account of any bodily injuries, disease or illness or damage to persons and/or property sustained or arising in the construction of the work performed under the permit or in consequence of permittee's failure to perform the obligations with respect to street maintenance. This permit is void 90 days from the date of issuance unless an extension is granted by the Director of the Office of Planning and Building.

I hereby affirm that I am licensed under provisions of Chapter 9 of Division 3 of the Business and Professions Code and my license is in full force and effect (if contractor), that I have read this permit and agree to its requirements, and that the above information is true and correct under penalty of law.

[Signature] _____ Date **6-24-3**

Signature of Permittee Agent for Contractor Owner

DATE STREET LAST RESURFACED	SPECIAL PAVING DETAIL REQUIRED? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	HOLIDAY RESTRICTION? (NOV-1 - JAN 1) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO	LIMITED OPERATION AREA? (7AM-9AM & 4PM-6PM) <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO
ISSUED BY <i>[Signature]</i>		DATE ISSUED u	

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

APPENDIX D

Laboratory Analytical Report - Soil



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197-055; Douglas Parking	Date Sampled: 06/27/03
		Date Received: 07/02/03
	Client Contact: Mary C. Holland-Ford	Date Reported: 07/09/03
	Client P.O.:	Date Completed: 07/09/03

WorkOrder: 0307051

July 09, 2003

Dear Mary:

Enclosed are:

- 1). the results of 1 analyzed sample from your **#580-0197-055; Douglas Parking project,**
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197-055; Douglas Parking	Date Sampled: 06/27/03
	Client Contact: Mary C. Holland-Ford	Date Received: 07/02/03
	Client P.O.:	Date Extracted: 07/02/03
		Date Analyzed: 07/04/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0307051

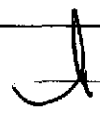
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-6@20'	S	220,b,m	ND<1.0	ND<0.10	0.14	ND<0.10	0.35	20	--#

Reporting Limit for DF=1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.


 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197-055; Douglas Parking	Date Sampled: 06/27/03
	Client Contact: Mary C. Holland-Ford	Date Received: 07/02/03
	Client P.O.:	Date Extracted: 07/02/03
		Date Analyzed: 07/03/03

Diesel Range (C10-C23) Extractable Hydrocarbons as Diesel*

Extraction method: SW3550C Analytical methods: SW8015C Work Order: 0307051

Lab ID	Client ID	Matrix	TPH(d)	DF	% SS
0307051-001A	MW-6@20'	S	150,d	1	107

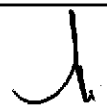
Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA
	S	1.0	mg/Kg

* water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant; d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

DHS Certification No. 1644

 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
 http://www.mcccampbell.com E-mail: main@mcccampbell.com

QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0307051

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7662		Spiked Sample ID: 0307050-001A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	0.60	113	114	1.24	112	113	1.35	70	130
MTBE	ND	0.10	112	101	11.0	109	107	1.76	70	130
Benzene	ND	0.10	108	104	4.00	107	110	2.80	70	130
Toluene	ND	0.10	92.8	90	3.11	91	94	3.25	70	130
Ethylbenzene	ND	0.10	109	105	3.17	99.7	109	8.57	70	130
Xylenes	ND	0.30	100	99.7	0.334	100	100	0	70	130
%SS:	86.4	100	93.7	88.4	5.82	89.1	89.1	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0307051

EPA Method: SW8015C		Extraction: SW3550C			BatchID: 7663		Spiked Sample ID: 0306395-020A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(d)	2.771	150	93.2	91.5	1.86	93.7	93	0.786	70	130
%SS:	98.5	100	109	107	1.90	104	103	0.747	70	130
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = $100 * (MS - Sample) / (Amount Spiked)$; RPD = $100 * (MS - MSD) / (MS + MSD) * 2$.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

CE 12

0307051

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACHECO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:
RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required? Yes No

Report To: Mary C. Holland-Ford Bill To: Same
Company: Cambria Environmental Technology, Inc.
5900 Hollis Street Suite A
Emeryville, CA 94608 E-mail: mhollford@cambria-env.com
Tele: 510-420-3307 Fax: 510-420-9170
Project #: 580-0197-055 Project Name: Douglas Parking
Project Location: 1721 Webster Street Oakland, CA
Sampler Signature: *[Signature]*

Analysis Request	Other	Comments
BTEX & TPH as Gas (602/8020 + 8015) MTBE TPH as Diesel (8015) Total Petroleum Oil & Grease (5520 F&F/R&F) Total Petroleum Hydrocarbons (418.1) EPA 601 / 8010 BTEX ONLY (EPA 602 / 8020) EPA 608 / 8080 EPA 608 / 8080 PCB's ONLY EPA 624 / 8240 / 8260 EPA 625 / 8270 PAH's / PNA's by EPA 625 / 8270 / 8310 CAM-17 Metals LUFT 5 Metals Lead (7240/7421/239.2/6010) RCI		

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other			
MW-6 @ 20'	Oakland	6/27/03	9:20a	1	tube	X					X						If MTBE detected, confirm by 8260

Relinquished By: <i>[Signature]</i>	Date: 6/27/03	Time: 4pm	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 7-2	Time: 10:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By: <i>[Signature]</i> 7-2-03

Remarks:

ICE/	<input checked="" type="checkbox"/>	PRESERVATION	VOAS	O&G	METALS	OTHER
GOOD CONDITION	<input checked="" type="checkbox"/>	APPROPRIATE				
HEAD SPACE ABSENT	<input checked="" type="checkbox"/>	CONTAINERS				
DECLORINATED IN LAB	<input type="checkbox"/>	PRESERVED IN LAB				

McC Campbell Analytical Inc.

CHAIN-OF-CUSTODY RECORD



110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

WorkOrder: 0307051

Client:

Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #580-0197-055; Douglas Parking
PO:

Date Received: 7/2/03
Date Printed: 7/2/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests								
					<>	SW8015C	N8021B/8015C						
0307051-001	MW-6@20'	Soil	6/27/03 9:20:00 AM	<input type="checkbox"/>	A	A	A						

Prepared by: Michelle Miller

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mcccampbell.com> E-mail: main@mcccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #510-420-3307; Douglas Parking	Date Sampled: 06/30/03
		Date Received: 07/02/03
	Client Contact: Mary C. Holland-Ford	Date Reported: 07/09/03
	Client P.O.:	Date Completed: 07/09/03

WorkOrder: 0307050

July 09, 2003

Dear Mary:

Enclosed are:

- 1). the results of 1 analyzed sample from your **#510-420-3307; Douglas Parking project,**
- 2). a QC report for the above sample
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
http://www.mcccampbell.com E-mail: main@mcccampbell.com

Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

Client Project ID: #510-420-3307;
Douglas Parking

Client Contact: Mary C. Holland-Ford

Client P.O.:

Date Sampled: 06/30/03

Date Received: 07/02/03

Date Extracted: 07/02/03

Date Analyzed: 07/03/03-07/04/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B

Analytical methods: SW8021B/8015Cm

Work Order: 0307050

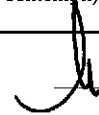
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	SP-1,2,3,4	S	ND	ND	ND	ND	ND	ND	1	86.4

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	NA	NA	NA	NA	NA	NA	NA	1	ug/L
	S	1.0	0.05	0.005	0.005	0.005	0.005	0.005	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in $\mu\text{g/L}$, soil/sludge/solid samples in $\mu\text{g/kg}$, wipe samples in $\mu\text{g/wipe}$, product/oil/non-aqueous liquid samples in mg/L .

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

 Angela Rydelius, Lab Manager



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Env. Technology
 5900 Hollis St, Suite A
 Emeryville, CA 94608

Client Project ID: #510-420-3307;
 Douglas Parking

Client Contact: Mary C. Holland-Ford

Client P.O.:

Date Sampled: 06/30/03

Date Received: 07/02/03

Date Extracted: 07/02/03

Date Analyzed: 07/03/03

Lead by ICP*

Extraction method: SW3050B

Analytical methods: 6010C

Work Order: 0307050

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0307050-001A	SP-1,2,3,4	S	TTLc	3.3	1	99.5


Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	TTLc	NA	mg/L
	S	TTLc	3.0	mg/Kg

*water/product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, filter samples in µg/filter.

means surrogate recovery outside of acceptance range due to matrix interference; & means low or no surrogate due to matrix interference; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

Analytical Methods: EPA 6010C/200.7 for all elements except: 200.9 (water/liquid- Sb, As, Pb, Se, Tl); 245.1 (Hg); 7010 (sludge/soil/solid/oil/product/wipe/filter - As, Se, Tl); 7471B (Hg).

i) liquid sample that contains greater than ~2 vol. % sediment; this sediment is extracted with the liquid, in accordance with EPA methodologies and can significantly effect reported metal concentrations; j) reporting limit raised due to insufficient sample amount; k) results are reported by dry weight; y) estimated values due to low surrogate recovery; z) reporting limit raised due to matrix interference.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0307050

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7662		Spiked Sample ID: 0307050-001A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	0.60	113	114	1.24	112	113	1.35	70	130
MTBE	ND	0.10	112	101	11.0	109	107	1.76	70	130
Benzene	ND	0.10	108	104	4.00	107	110	2.80	70	130
Toluene	ND	0.10	92.8	90	3.11	91	94	3.25	70	130
Ethylbenzene	ND	0.10	109	105	3.17	99.7	109	8.57	70	130
Xylenes	ND	0.30	100	99.7	0.334	100	100	0	70	130
%SS:	86.4	100	93.7	88.4	5.82	89.1	89.1	0	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
 Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

QC SUMMARY REPORT FOR 6010C

Matrix: S

WorkOrder: 0307050

EPA Method: 6010C		Extraction: SW3050B			BatchID: 7667			Spiked Sample ID: N/A		
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
Lead	N/A	500	N/A	N/A	N/A	99.5	98.9	0.551	70	130
%SS:	N/A	100	N/A	N/A	N/A	107	104	2.84	70	130
<p>All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE</p>										

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

$$\% \text{ Recovery} = 100 * (\text{MS-Sample}) / (\text{Amount Spiked}); \text{RPD} = 100 * (\text{MS} - \text{MSD}) / (\text{MS} + \text{MSD}) * 2.$$

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not applicable to this method.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
Pacheco, CA 94553-5560
(925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0307050

Client:

Cambria Env. Technology
5900 Hollis St, Suite A
Emeryville, CA 94608

TEL: (510) 420-0700
FAX: (510) 420-3394
ProjectNo: #510-420-3307; Douglas Parking
PO:

Date Received: 7/2/03
Date Printed: 7/2/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests						
					<>	6010C	V8021B/8015C				
0307050-001	SP-1,2,3,4	Soil	6/30/03 8:55:00 AM	<input type="checkbox"/>	A	A	A				

Prepared by: Michelle Miller

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

APPENDIX E

Laboratory Analytical Report - Groundwater



McC Campbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone : 925-798-1620 Fax : 925-798-1622
<http://www.mccampbell.com> E-mail: main@mccampbell.com

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197-56; Douglas Parking	Date Sampled: 06/30/03
		Date Received: 07/02/03
	Client Contact: Mary C. Holland-Ford	Date Reported: 07/09/03
	Client P.O.:	Date Completed: 07/09/03

WorkOrder: 0307049

July 09, 2003

Dear Mary:

Enclosed are:

- 1). the results of 2 analyzed samples from your #580-0197-56; Douglas Parking project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits.

If you have any questions please contact me. McC Campbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Yours truly,

Angela Rydelius, Lab Manager



Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608	Client Project ID: #580-0197-56; Douglas Parking	Date Sampled: 06/30/03
	Client Contact: Mary C. Holland-Ford	Date Received: 07/02/03
	Client P.O.:	Date Extracted: 07/07/03
		Date Analyzed: 07/07/03

Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0307049

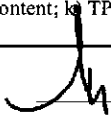
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	MW-6	W	68,000,a,h	ND<1000	950	6000	2400	10,000	200	102
002A	MW-7	W	170,a,i	ND	ND	2.1	2.0	8.7	1	107

Reporting Limit for DF =1; ND means not detected at or above the reporting limit	W	50	5.0	0.5	0.5	0.5	0.5	1	µg/L
	S	NA	NA	NA	NA	NA	NA	1	mg/Kg

* water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

cluttered chromatogram; sample peak coelutes with surrogate peak.

+The following descriptions of the TPH chromatogram are cursory in nature and McC Campbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

 Angela Rydelius, Lab Manager



QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: W

WorkOrder: 0307049

EPA Method: SW8021B/8015Cm		Extraction: SW5030B		BatchID: 7670		Spiked Sample ID: 0307053-003A				
	Sample	Spiked	MS*	MSD*	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High
TPH(btex) [£]	ND	60	112	112	0	107	110	2.87	70	130
MTBE	ND	10	103	105	1.68	103	105	2.00	70	130
Benzene	ND	10	107	106	0.944	97.9	101	3.10	70	130
Toluene	ND	10	99.1	101	2.10	93.8	96.5	2.79	70	130
Ethylbenzene	ND	10	106	108	1.53	103	107	3.52	70	130
Xylenes	ND	30	100	100	0	96	100	4.08	70	130
%SS:	99.0	100	99.1	101	1.49	100	99.3	1.01	70	130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:
 NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / (MS + MSD) * 2.

* MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

McC Campbell Analytical Inc.



110 Second Avenue South, #D7
 Pacheco, CA 94553-5560
 (925) 798-1620

CHAIN-OF-CUSTODY RECORD

WorkOrder: 0307049

Client:

Cambria Env. Technology
 5900 Hollis St, Suite A
 Emeryville, CA 94608

TEL: (510) 420-0700
 FAX: (510) 420-3394
 ProjectNo: #580-0197-56; Douglas Parking
 PO:

Date Received: 7/2/03

Date Printed: 7/2/03

Sample ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests					
					<>	N8021B/8015C				
0307049-001	MW-6	Water	6/30/03 8:05:00 AM	<input type="checkbox"/>	A	A				
0307049-002	MW-7	Water	6/30/03 8:40:00 AM	<input type="checkbox"/>		A				

Prepared by: Michelle Miller

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.

CETE

0307049

McCAMPBELL ANALYTICAL INC.

110 2nd AVENUE SOUTH, #D7
PACIFICO, CA 94553-5560

Telephone: (925) 798-1620

Fax: (925) 798-1622

CHAIN OF CUSTODY RECORD

TURN AROUND TIME:

RUSH 24 HOUR 48 HOUR 5 DAY

EDF Required? Yes No

Report To: Mary C. Holland-Ford Bill To: Same
Company: Cambria Environmental Technology, Inc.
5900 Hollis Street Suite A
Emeryville, CA 94608 E-mail: mhollandford@cambria-env.com
Tele: 510-420-3307 Fax: 510-420-9170
Project #: 580-0197 - 56 Project Name: Douglas Parking
Project Location: 1721 Webster Street, Oakland, CA
Sampler Signature: *[Signature]*

Analysis Request		Other	Comments
BTEX & TPH as Gas (802/8020 - 8015)/MTBE			
TPH as Diesel (801.5)			
Total Petroleum Oil & Grease (5520 F&F/B&F)			
Total Petroleum Hydrocarbons (418.1)			
EPA 601 / 8010			
BTEX ONLY (EPA 602 / 8020)			
EPA 608 / 8080			
EPA 608 / 8080 PCB's			
ONLY EPA 624 / 8240 / 8260			
EPA 625 / 8270			
PAH's / PNA's by EPA 625 / 8270 / 8310			
CAM-17 Metals			
LUFT 5 Metals			
Lead (7240/7421/239.2/6010)			
RCI			

+ 111
2 111

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED									
		Date	Time			Water	Soil	Air	Sludge	Other	Ice	HCl	HNO ₃	Other						
MW-6	Oakland	6/30/03	8:05	4	voa	X					X	X								
MW-7	Oakland	6/30/03	8:40	4	voa	X					X	X								

Relinquished By: <i>[Signature]</i>	Date: 7-1-03	Time: 8:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date: 7-2	Time: 10:30	Received By: <i>[Signature]</i>
Relinquished By: <i>[Signature]</i>	Date:	Time:	Received By: <i>[Signature]</i> 7-2-03

Remarks:
If MTBE detected, confirm by 8260

ICM: <input checked="" type="checkbox"/>	GOOD CONDITION: <input checked="" type="checkbox"/>	HEAD SPACE ABSENT: <input checked="" type="checkbox"/>	DECHLORINATED IN LAB: <input checked="" type="checkbox"/>	PRESERVATION APPROPRIATE: <input checked="" type="checkbox"/>	CONTAINERS PRESERVED IN LAB: <input checked="" type="checkbox"/>	VOAS: <input checked="" type="checkbox"/>	O&G: <input type="checkbox"/>	METALS: <input type="checkbox"/>	OTHER: <input type="checkbox"/>
--	---	--	---	---	--	---	-------------------------------	----------------------------------	---------------------------------

APPENDIX F

GeoTracker Electronic Delivery Confirmations

AB2886 Electronic Delivery

[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

Your EDF file has been successfully uploaded!

Confirmation Number: 6043362438

Date/Time of Submittal: 8/12/2003 12:42:59 PM

Facility Global ID: T0600100140

Facility Name: DOUGLAS PARKING COMPANY

Submittal Title: Douglas Well Installation

Submittal Type: Soil & Water Investigation Report

Logged in as CAMBRIA-EM (AUTH_RP)

CONTACT SITE ADMINISTRATOR.

McCoyball WWA 03070530

AB2886 Electronic Delivery

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Your EDF file has been successfully uploaded!

Confirmation Number: 1194068014

Date/Time of Submittal: 8/12/2003 11:43:11 AM

Facility Global ID: T0600100140

Facility Name: DOUGLAS PARKING COMPANY

Submittal Title: Well Installation June 2003

Submittal Type: Soil & Water Investigation Report

Logged in as CAMBRIA-EM (AUTH_RP)

[CONTACT SITE ADMINISTRATOR.](#)

Mc Campbell WDI# 0307079

AB2886 Electronic Delivery

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UPLOADING A GEO_XY FILE

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

Submittal Title: Douglas Well Installation
Submittal Date/Time: 8/12/2003 11:36:26 AM
Confirmation Number: 3449859440

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(AUTH_RP)

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UPLOADING A GEO_Z FILE

**Processing is complete. No errors were found!
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Submittal Title: Douglas Well Installation
Submittal Date/Time: 8/12/2003 11:34:53 AM
Confirmation Number: 4522968888

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(AUTH_RP)

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UPLOADING A GEO_WELL FILE

**Processing is complete. No errors were found!
Your file has been successfully submitted!**

Submittal Title:	Douglas Well Installation geo_well
Submittal Date/Time:	8/12/2003 11:29:41 AM
Confirmation Number:	6636875748

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(AUTH_RP)

[CONTACT SITE ADMINISTRATOR.](#)

AB2886 Electronic Delivery

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Your EDF file has been successfully uploaded!

Confirmation Number: 7916301786

Date/Time of Submittal: 8/12/2003 1:08:57 PM

Facility Global ID: T0600100140

Facility Name: DOUGLAS PARKING COMPANY

Submittal Title: Douglas Well Installation

Submittal Type: Soil & Water Investigation Report

Logged in as CAMBRIA-EM (AUTH_RP)

[CONTACT SITE ADMINISTRATOR.](#)

McCoybell' WO# 0307051

AB2886 Electronic Delivery
[Main Menu](#) | [View/Add Facilities](#) | [Upload EDD](#) | [Check EDD](#)

UPLOADING A GEO_MAP FILE

YOUR IMAGE UPLOAD WAS SUCCESSFUL!

<u>Facility Name:</u>	DOUGLAS PARKING COMPANY
<u>Global ID:</u>	T0600100140
<u>Submittal Type:</u>	GEO_MAP
<u>Submittal Date/Time:</u>	8/13/2003 9:25:16 AM
<u>Confirmation Number:</u>	4094619572

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Logged in as CAMBRIA-EM
(AUTH_RP)

[CONTACT SITE ADMINISTRATOR.](#)

APPENDIX G

Well Survey

Virgil Chavez Land Surveying

312 Georgia Street, Suite 225
Vallejo, California 94590-5907
(707) 553-2476 • Fax (707) 553-8698

August 6, 2003
Project No.: 2216-20

Mary Holland-Ford
Cambria Environmental
5900 Hollis Street, Suite A
Emeryville, CA 94608

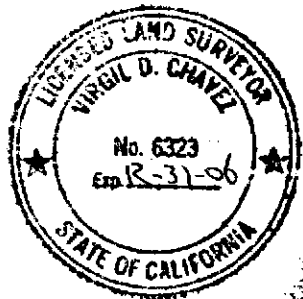
Subject: Monitoring Well Survey
Douglas Parking Facility
1721 Webster Street
Oakland, CA

Dear Mary:

This is to confirm that we have proceeded at your request to survey the ground water monitoring wells located at the above referenced location. The survey was completed on July 31, 2003. The benchmark for this survey was a cut "X" in the top of curb near the southwest return of the northwest corner of 34th and Broadway. The latitude, longitude and coordinates are for top of casings and are based on the California State Coordinate System, Zone III (NAD83).

Benchmark Elevation = 60.40 feet (NGVD 29).

<u>Latitude</u>	<u>Longitude</u>	<u>Northing</u>	<u>Easting</u>	<u>Elev.</u>	<u>Desc.</u>
				33.05	RIM MW-1
37.8061963	-122.2673331	2120837.19	6051114.42	32.75	TOC MW-1
				30.69	RIM MW-2
37.8062282	-122.2671334	2120847.71	6051172.31	30.40	TOC MW-2
				32.89	RIM MW-3
37.8059870	-122.2672754	2120760.65	6051129.63	32.56	TOC MW-3
				28.64	RIM MW-4
37.8063276	-122.2668660	2120882.42	6051250.23	28.29	TOC MW-4
				25.23	RIM MW-5
37.8067201	-122.2667981	2121024.97	6051272.54	24.99	TOC MW-5
				31.37	RIM MW-6
37.8060253	-122.2670352	2120773.30	6051199.28	30.99	TOC MW-6
				33.82	RIM MW-7
37.8058274	-122.2673310	2120702.86	6051112.48	33.11	TOC MW-7



Sincerely,

Virgil D. Chavez

 Virgil D. Chavez, PLS 6323

APPENDIX H

Waste Manifest

NON-HAZARDOUS WASTE MANIFEST

6 DRUMS

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 770007	2. Page 1 of 1
3. Generator's Name and Mailing Address NICHOLAS PARKMAN 1771 WASHINGTON STREET HARLAND, PA 15851		CITY: CAMBRIA 6000 GULL'S STREET, SUITE 2 CAMBRIA, PA 17001 ATTN: WASTE SERVICES			
4. Generator's Phone (717) 228-3314					
5. Transporter 1 Company Name RESEARCH ENVIRONMENTAL SVCS.		6. US EPA ID Number PA 0000000000		A. State Transporter's ID	
7. Transporter 2 Company Name <i>Mary H. ...</i>		8. US EPA ID Number		B. Transporter 1 Phone (717) 228-3314	
9. Designated Facility Name and Site Address 1100 ...		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone (717) 228-3314	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a. ...			No. 5	Type 00	2500
b. ...			No. 1	Type 00	50
c.					
d. ✓					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
1.1 1.2 1.3 1.4			1 @ 5000 75 D5639389 + 1 @ 80		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name CELALE MEGIA		Signature <i>Cela M...</i>		Date Month Day Year 08/15/03	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name ROY TURNER		Signature <i>Roy Turner</i>		Date Month Day Year 08/15/03	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Date Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator, Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.					
Printed/Typed Name SANTA C. NUGUIEZ		Signature <i>Santa C. Nuguez</i>		Date Month Day Year 08/15/03	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY



APPENDIX I

Background Information



August 12, 1992

Project 128-6

Mr. Jim Brinker
Burnabe & Brinker
1281 30th Street
Oakland, CA 94608

*Leak as noted
1 yr ago to*

Subject: Underground Tank Removal Soil Sampling and Analysis Report

Dear Mr. Brinker:

This letter is a report concerning the soil sampling and analysis associated with the underground tank removals from Douglas Parking, 1721 Webster Street, Oakland, California on August 3rd and August 6th, 1992.

One 1,000 gallon gasoline steel tank was removed from the property on August 3, 1992. No holes were observed on the tank. Two soil samples were collected from the beneath the former tank location, and six soil samples were collected from beneath the gas lines and pump area. For the samples from underneath the tanks, a backhoe was used to dig approximately one foot into the native soil for a total depth of 9 feet below ground surface. Digging was difficult due to sumping sidewalls, and water in the excavation bottom. The water in the excavation was from a broken sewer line and broken water line.

The native soil was brought to the surface in the backhoe bucket, where a 2 inch diameter 6 inch long brass sample tube was hammered into the undisturbed soil. Aluminum foil was placed over the tube ends, then plastic caps. Each sample was labeled and placed in a zip lock bag on ice in a portable cooler for transport to a State certified hazardous materials analysis laboratory, McCampbell Analytical, Pacheco, CA. Sample locations are shown in the attached site drawing. Sample information was entered on a chain of custody form (attached) as each sample was completed.

The samples from beneath the gas pumps were two feet from the surface, and the product line samples were 1.5 to 2.0 feet beneath the surface. These samples were obtained by hand augering to the appropriate depth, and then using a slide hammer to drive the sample tube into the soil. Each tube was wrapped, labeled and transported as described above.

Recycled Paper

Mr. Jim Brinker
August 12, 1992
Page 2

Due to unstable excavation walls by the 1,000 gallon tank, the hole was backfilled after the tank samples were obtained. No over-excavation of contaminated soil was accomplished.

The two 500 gallon tanks were removed on August 6, 1992. Three samples were taken from beneath the tanks (T-3, T-4, T-5), two from the excavation bottom after over-excavation (T-6, T-7), and four from the excavation side walls (SW-1 through SW4). One composite sample was taken from the soil stockpile.

None of the tanks had visible holes other than holes punched through the steel by the backhoe during removal.

The samples were analyzed for total petroleum hydrocarbons as gasoline (TPH-g) and the gasoline constituents of benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA methods 5030, 8015 and 8020, and California RWQCB (SF Bay Region) method GCFID (5030). Analysis results show all samples collected from the tank excavation had detectable of gasoline and its constituents, with the highest amounts from beneath the middle tank. Samples from the gas lines and pumps had minimal or non-detectable amounts of gasoline.

We are forwarding a copy of this report and attachments to Alameda County, Oakland City Fire Department and Mr. Lee Douglas as you requested.

Sincerely,
PARKER ENVIRONMENTAL SERVICES



James D. Parker
President

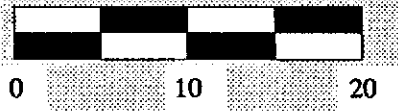
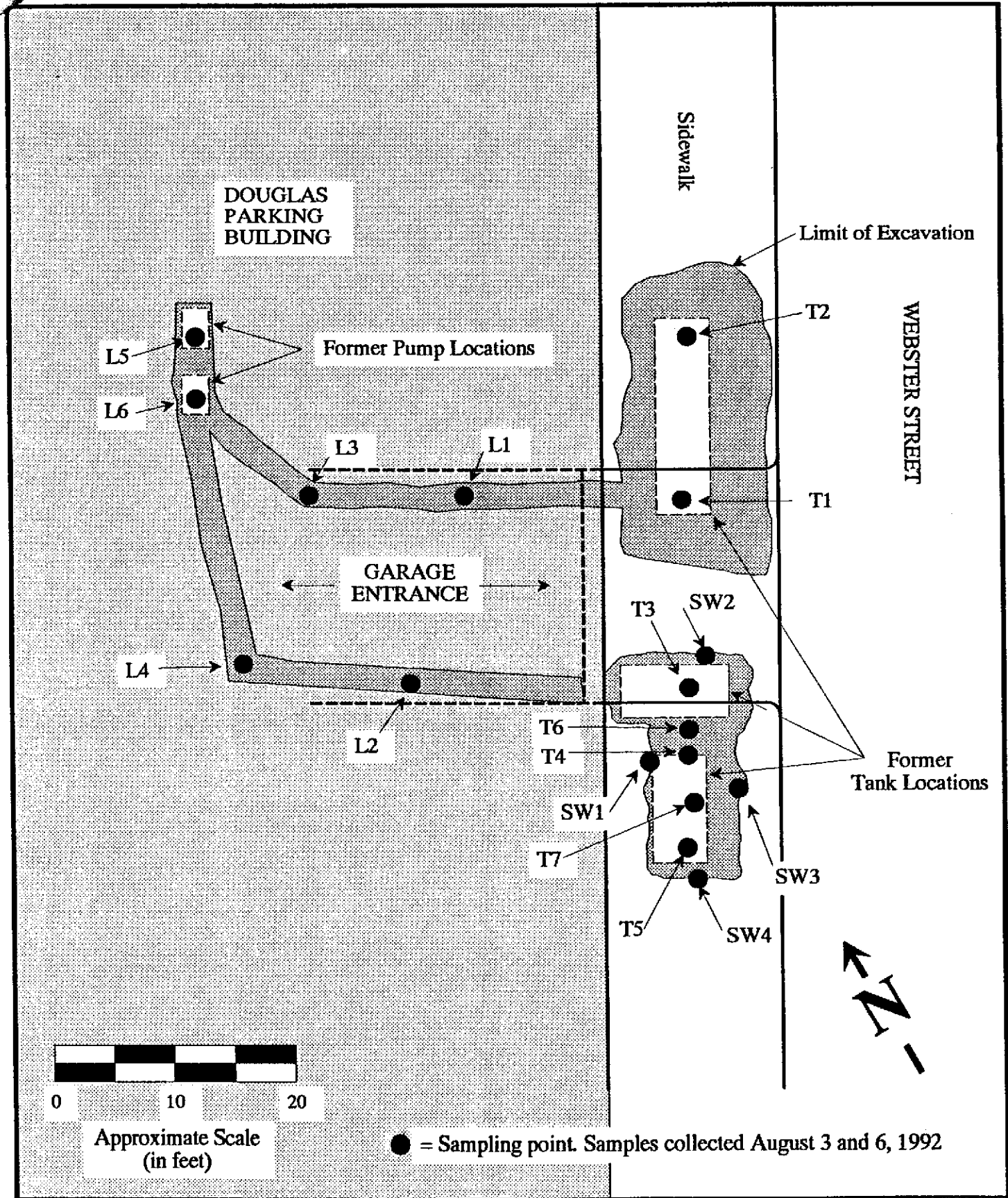
Attachments

cc: Alameda County Health Services, Environmental Health Division
✓ City of Oakland Fire Department
✓ Mr. Lee Douglas, Douglas Parking

Douglas Parking
 1721 Webster Street, Oakland, California
 Soil Sample Analysis Results*
 Samples Collected on August 3 and 6, 1992

Sample Number	Depth	TPH-g	Benzene	Toluene	Ethylbenzene	Xylenes
Samples From Beneath the Tanks						
T-1	9'	150				
T-2	9'	120	2.2	2.9	1.8	13
T-3	8'	580	0.62	0.56	0.87	2.2
T-4	8'	1,500	1.7	5.9	5.6	43
T-5	8'	410	11	140	48	280
T-6	12'	1,400	6.7	22	6.2	35
T-7	14'	2.3	12	71	29	150
			0.11	0.19	0.050	0.31
Samples from the south excavation side walls						
SW1	9.5'	280				
SW2	7'	1,500	2.9	5.8	3.2	15
SW3	8'	400	5.7	40	18	150
SW4	9'	2.3	2.7	5.8	4.0	21
			0.42	0.028	0.077	0.18
Composited Sample from the soil pile						
C1	1.5'	560	ND<0.1	5.0	3.1	24
Samples from the line and pump trenches						
L-1	1.5'	2.6	ND			
L-2	1.5'	ND	ND	0.010	ND	0.030
L-3	1.5'	ND	ND	ND	ND	ND
L-4	1.5'	ND	ND	ND	ND	ND
L-5	2.0'	8.2	ND	ND	ND	ND
L-6	2.0'	ND	0.010	0.020	0.012	0.092
			ND	0.007	ND	0.034

* TPH (as gasoline) and BTEX are in parts per million. ND = Not Detected



Approximate Scale
(in feet)

● = Sampling point. Samples collected August 3 and 6, 1992

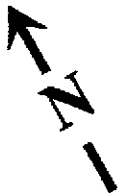
PARKER
Environmental
Services
Project 128-6

4185 Rialto Court
Pittsburg, CA 94565
(510) 439-1024

DOUGLAS PARKING
1721 Webster Street, Oakland, California
Tank Removal Soil Sampling
8/92

To 17th Street ↑

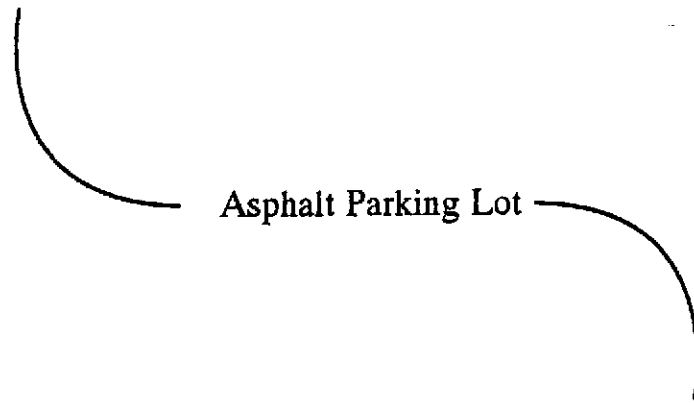
WEBSTER STREET



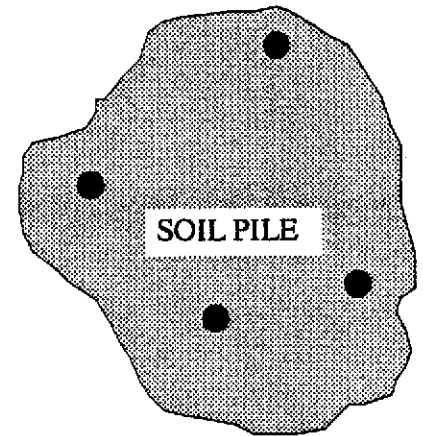
NO SCALE IMPLIED

BUILDING

Brick Wall →



Asphalt Parking Lot



SOIL PILE

● = Composite soil sampling point.
Samples collected August 6, 1992

PARKER
Environmental
Services

4185 Rialto Court
Pittsburg, CA 94565
(510) 439-1024

APARTMENT BUILDING

DOUGLAS PARKING
1820 Webster Street, Oakland, California
Tank Removal Soil Pile Sampling

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Bernabe & Brinker 1281 30th Street Oakland, CA 94608	Client Project ID: Douglas Parking, 1721 Webster Street, Oakland	Date Sampled: 08/03/92
	Client Contact: Jim Brinker, Ernie Bernabe	Date Received: 08/03/92
	Client P.O:	Date Extracted: 08/04/92
		Date Analyzed: 08/04-08/05/92

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

I/PA methods 5030, modified 8015, and 8020 or 602; California RWQCB (SF Bay Region) method OCFID(5030)

Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Ben- zene	Xylenes	% Rec. Sur- rogate
105846	L-1	S	2.6,b,g	ND	0.010	ND	0.030	99
105847	L-2	S	ND	ND	ND	ND	ND	103
105848	L-3	S	ND	ND	ND	ND	ND	102
105849	T-1	S	150,a,b	2.2	2.9	1.8	13	100
105850	L-4	S	ND	ND	ND	ND	ND	103
105851	T-2	S	120,c	0.62	0.56	0.87	2.2	94
105852	L-5	S	8.2,b	0.010	0.020	0.012	0.092	98
105853	L-6	S	ND,b	ND	0.007	ND	0.034	99
Detection Limit unless otherwise stated; ND means Not Detected	W	50 ug/L	0.5	0.5	0.5	0.5	0.5	
	S	1.0 mg/kg	0.005	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

*cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

54

Edward Hamilton, Lab Director

McCAMPBELL ANALYTICAL INC.

110 2nd Avenue South, #D7, Pacheco, CA 94553

Tele: 510-798-1620 Fax: 510-798-1622

Bernabe & Brinker 1281 30th Street Oakland, CA 94608	Client Project ID: Douglas Parking; 1721 Webster Street, Oakland	Date Sampled: 08/06/92
	Client Contact: Jim Brinker, Ernie Bernabe	Date Received: 08/06/92
	Client P.O:	Date Extracted: 08/06/92
		Date Analyzed: 08/07-08/08/92

Low Boiling Point (C6-C12) TPH* as Gasoline and BTEX*

BPA methods 5030, modified 8015, and 8020 or 602; California RWOCB (SF Bay Region) method GCPID(5030)

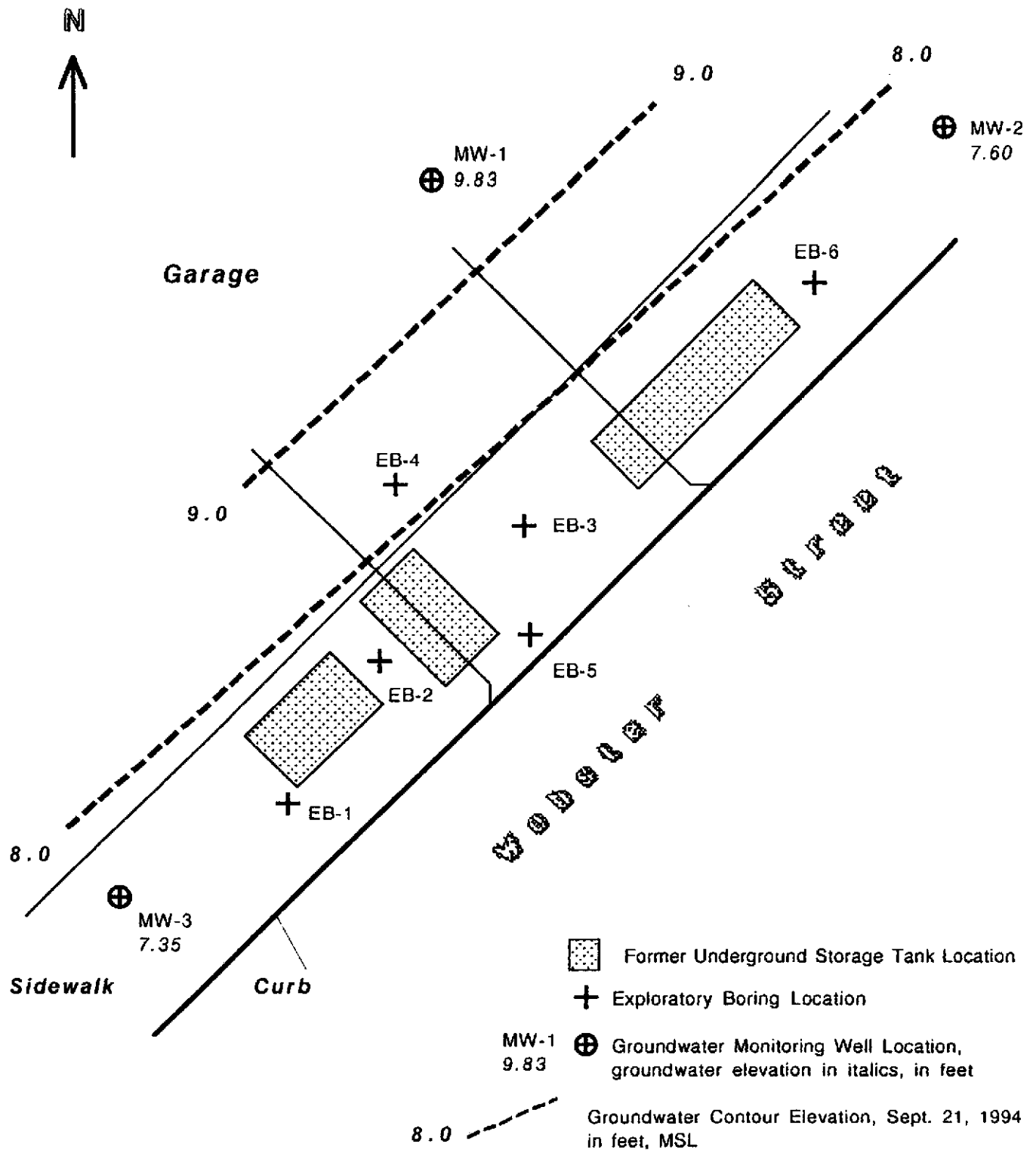
Lab ID	Client ID	Matrix	TPH(G) ⁺	Benzene	Toluene	Ethyl Benzene	Xylenes	% Rec. Surrogate
105868	T-3	S	580,b	1.7	5.9	5.6	43	101
105869	T-4	S	1500,a	11	140	48	280	99
105870	T5	S	410,a	6.7	22	6.2	35	105
105871	T6	S	1400,a	12	71	29	150	96
105872	T7	S	2.3,a	0.11	0.19	0.050	0.31	100
105873	SW1	S	280,a	2.9	5.8	3.2	15	100
105874	SW2	S	1500,a	5.7	40	18	150	98
105875	SW3	S	400,a	2.7	5.8	4.0	21	103
105876	SW4	S	2.3,a	0.42	0.028	0.077	0.18	99
105877	C1	S	560,b	ND < 0.1	5.0	3.1	24	111
Detection Limit unless otherwise stated; ND means Not Detected	W		50 ug/L	0.5	0.5	0.5	0.5	
	S		1.0 mg/kg	0.005	0.005	0.005	0.005	

*water samples are reported in ug/L and soils in mg/kg

* cluttered chromatogram; sample peak co-elutes with surrogate peak

⁺ The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) predominately unmodified or weakly modified gasoline; b) heavier gasoline range compounds predominate (aged gasoline?); c) lighter gasoline range compounds predominate (the most mobile gasoline compounds); d) heavy and light gasoline range compounds predominate (aged gasoline together with introduced light compounds?); e) gasoline range compounds predominate; no recognizable pattern; f) one to a few isolated peaks present; g) strongly aged gasoline or diesel range compounds predominate.

Edward Hamilton, Lab Director









**GEN TECH
ENVIRONMENTAL, INC.
SAN JOSE, CA**

<p>Site Plan and Groundwater Contour Map Douglas Parking 1721 Webster Street Oakland, CA</p>	<p>Project No. 9432 Scale: 1" = 100' Date: Dec., 1994</p>
---	---

FIGURE 1

STANDARD SYMBOLS

Legend






-  Soil sample location
-  Soil sample collected for laboratory analysis
-  No soil recovery
-  First encountered groundwater level
-  Potentiometric groundwater level
-  Disturbed or bag soil sample

2.5 YR 6/2 Soil color according to Munsell Soil Color Charts (1975 Edition)

Penetration

Sample drive hammer weight - 140 pounds falling 30 inches.
Blows required to drive sampler 1 foot are indicated on the logs

Well Construction

-  Annular seal
-  Bentonite seal
-  Sand pack
-  Well riser section
-  Well screen section

UNIFIED SOIL CLASSIFICATION SYSTEM

MAJOR DIVISIONS			GROUP SYMBOLS	TYPICAL NAMES
COARSE-GRAINED SOILS More than half of material is larger than No. 200 sieve size	GRAVELS More than half of coarse fraction is larger than No. 4 sieve size	Clean Gravels	GW	Well-graded gravels, gravel-sand mixtures, little or no fines
			GP	Poorly graded gravels, gravel-sand mixture, little or no fines
		Gravels with Fines	GM	Silty gravels, gravel-sand-silt mixtures
			GC	Clayey gravels, gravel-sand-clay mixtures
	SANDS More than half of coarse fraction is smaller than No. 4 sieve size	Clean Sands	SW	Well-graded sands, gravelly sand, little or no fines
			SP	Poorly graded sands, gravelly sands, little or no fines
		Sands with Fines	SM	Silty sands, sand-silt mixtures
			SC	Clayey sands, sand-clay mixtures
FINE-GRAINED SOILS More than half of material is smaller than No. 200 sieve size	SILTS AND CLAYS	Low Liquid Limit	ML	Inorganic silts and very fine sands, rock flour, silty or clayey fine sands, or clayey silts, with slight plasticity
			CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, silty clays, lean clays
			OL	Organic silts and organic silty clays of low plasticity
		High Liquid Limit	MH	Inorganic silts, micaceous or diatomaceous fine sandy or silty soils, elastic silts
			CH	Inorganic clays of high plasticity, fat clays
			OH	Organic clays of medium to high plasticity, organic silts
		Pt	Peat and other highly organic soils	

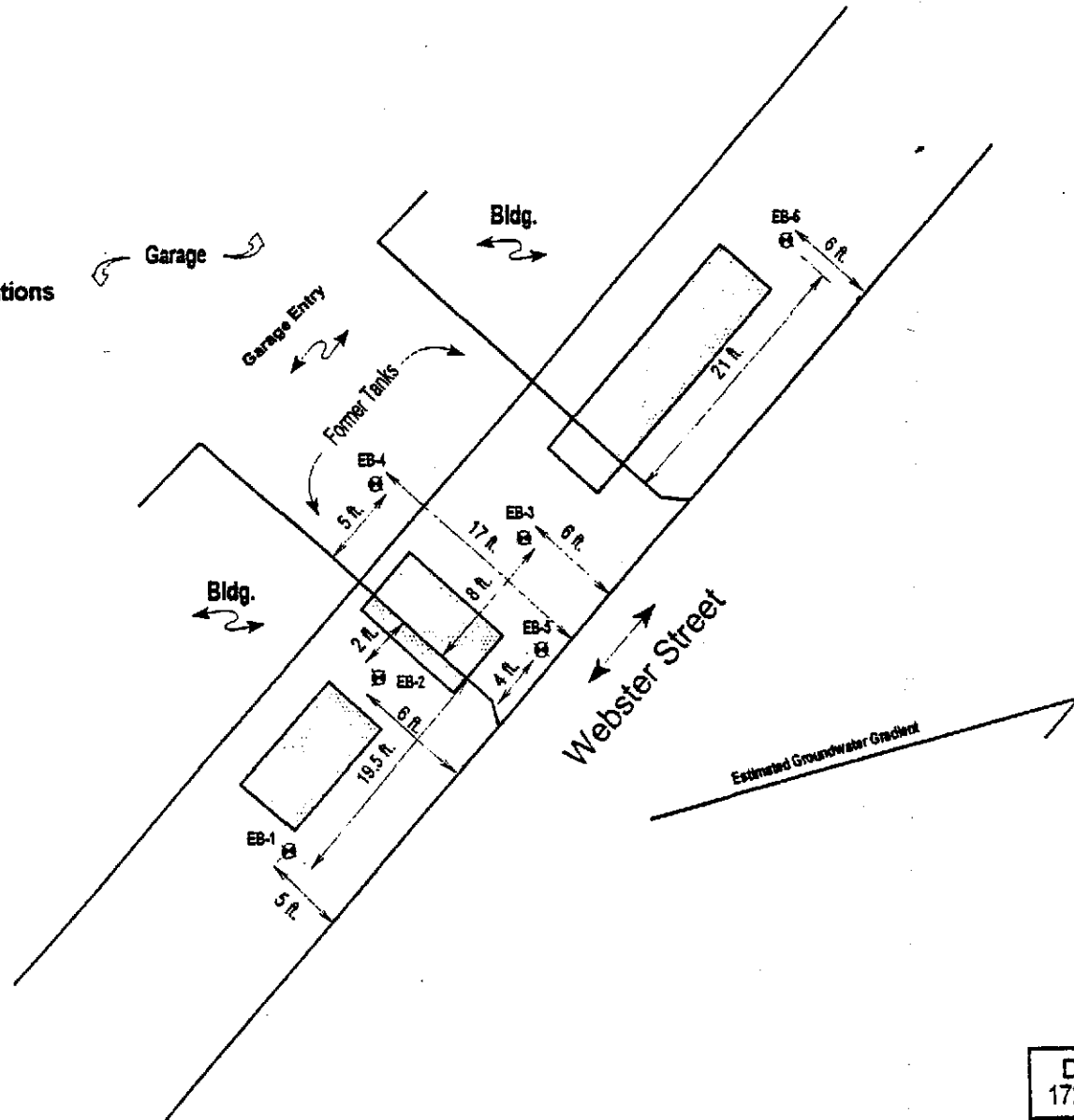
NOTES:

- Boundary Classification: Soils possessing characteristics of two groups are designated by combinations of group symbols. For example, GW-GC, well-graded gravel-sand mixture with clay binder.
- All sieve sizes on this chart are U.S. standard.
- The terms "silt" and "clay" are used respectively to distinguish materials exhibiting lower plasticity from those with higher plasticity.
- For a complete description of the Unified Soil Classification System, see "Technical Memorandum No. 3-357," prepared for Office, Chief of Engineers, by Waterways Equipment Station, Vicksburg, Mississippi, March 1953.

Douglas Parking - Webster St.

Legend:

⊗ Exploratory Borings Locations

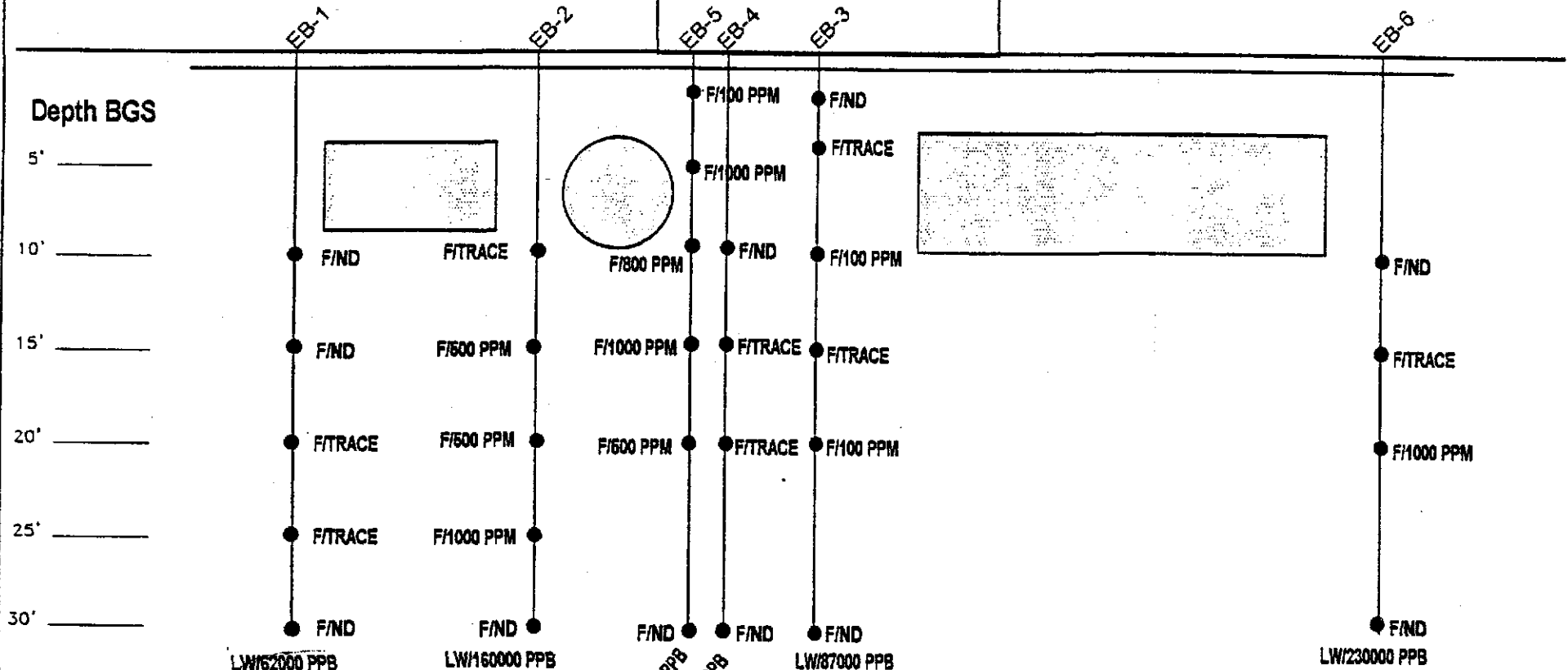


Douglas Parking Garage 1721 Webster Street, Oakland, CA	
Figure 1-A	Exploratory Boring Locations
Scale: 1" = 10 ft.	Date: July 19, 1994

Douglas Parking

Garage Entrance

Webster Street



LW=?

<p>Douglas Parking Garage 1721 Webster Street, Oakland, CA</p>	
<p>Exploratory Boring Soil Sampling Results</p>	
Figure 2-A	July 19, 1994

Project No. 9432 Boring/Well No. EB-1
 Client: Douglas Parking Date Drilled: July 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 borings
 Water Levels: 1st Enc: 24' Static: 21.5'

Borehole Completion
 Well Installed: No
 Total Depth: 30.5 feet
 Grout Seal: 30' to surface

Sample No.	OV	Blow Count	Sample	Depth	Lithology Log	Well Detail/ Backfill
					Concrete and subgrade	
EB-1 @ 5'	-	grab	⊗	5	SM - Silty SAND, very dark grayish brown 10YR(3/2), up to 5% fine gravel to coarse sand, drills dense, damp. color change to dark yellowish brown 10YR4/6, 15% clay, 20% silt, drills dense, damp. driller calls change at 8 feet.	
EB-1 @ 10'	-	50 for 6"	▨	10	CL - Sandy CLAY, dark yellowish brown 10YR(4/6), 15% silt 25% sand, low-med. plasticity, rare burrows, oxidation mottling, hard, damp.	
EB-1 @ 15'	-	82	▨	15	SP - SAND, light olive brown 2.5Y(5/4), very fine to med. grained, very dense, damp to moist.	
EB-1 @ 20'	-	50 for 6"	▨	20	color change to dark greenish gray discoloration 2.5Y(5/4), slight petroleum odor, very dense, moist. driller calls water at 24 feet.	▼
EB-1 @ 25'	-	60	▨	25	same as above, sheen on water, very dense, saturated.	▼
EB-1 @ 30'	-	24/50 for 6"	▨	30	same as above, flowing conditions. CL - Silty CLAY, light olive brown 2.5Y(5/4), 15% silt, 20% fine to med grained sand, low-med. plasticity, contaminants not observed, hard, damp.	
					Bottom of Boring = 30.5 feet, sand flows into lower 0.5 feet.	

QUMP CEG 124 Z

Project No. 9432 Boring/Well No. EB-2
 Client: Douglas Parking Date Drilled: July 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 borings
 Water Levels: 1st Enc: 24' Static: 22'

Borehole Completion
 Well Installed: No
 Total Depth: 30'
 Cement Grout Seal: 27' to surface

Sample No.	Blow Han	Count	Sample	Depth	Lithology Log	Well Detail/ Backfill
EB-2 @ 5'	-	grab	X	5	Concrete and subgrade GW - Artificial FILL, base material.	
EB-2 @ 10'	-	83	▨	10	artificial fill, dense, damp.	
EB-2 @ 15'	500 ppm	22/50 for 6"	▨	15	SP - SAND, light olive brown 2.5Y(5/4), rare burrows or root holes, petroleum odor, very dense, damp.	
EB-2 @ 20'	500+ ppm	17/50 for 3"	▨	20	same as above, very dense, moist.	
EB-2 @ 25'	1000 ppm	59	▨	25	same as above, color change to dark greenish gray 5GY(4/1), strong petroleum odor, dense, saturated.	
EB-2 @ 30'	-	63	▨	30	flowing conditions, clay on drill bit when withdrawn from borehole.	
					Bottom of Boring = 30 feet, flowing sand fills lower 3 feet	
					Han- hanby Field Analytical Chemical colormetric Test for petroleum hydrocarbons in parts per million.	
					UUMP CE41262	

Project No. 9432 Boring/Well No. EB-3

Client: Douglas Parking Date Drilled: July 8, 1994

Location: 1721 Webster St., Oakland, CA Logged by: EL

Drilling Method: Hollowstem Permit: Zone 7 borings

Water Levels: 1st Enc: 24' Static: 22'

Borehole Completion

Well Installed: No

Total Depth: 30'

Cement Grout Seal: 26' to surface

Sample No.	Blow Han	Count	Sample	Depth	Lithology Log	Well Detail/ Backfill
					Concrete and subgrade	
EB-3 @ 5'	-	grab	⊗	5	CL - Sandy CLAY, olive 5Y(4/4), low plasticity, slight petroleum odor, drills soft, damp.	
EB-3 @ 10'	-	46	▨	10	sand interbed, 1.5' thick, slight petroleum odor,	
EB-3 @ 15'	-	54	▨	15	SP - SAND, dark yellowish brown 10YR(4/6), fine to med. grained, fines < 5%, dense, moist.	
EB-3 @ 20'	100 ppm	76	▨	20	same as above, moderate petroleum odor, dense, moist.	
EB-3 @ 25'	-	70	▨	25	same as above, sheen on water, very dense, saturated.	
EB-3 @ 30'	-	53	▨	30	CL - Silty CLAY, light olive brown 2.5Y(5/4), 40% silt, < 5% sand, med. plasticity, laminated, some burrows, hard, damp.	
					Bottom of Boring = 30 feet, flowing sand fills lower 4 feet	
					Han- Hanby Field Analytical Chemical Colormetric Test for petroleum hydrocarbons in parts per million.	
					UMP ccc, 120 L	

Project No. 9432 Boring/Well No. EB-4
 Client: Douglas Parking Date Drilled: July 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 borings
 Water Levels: 1st Enc: 24' Static: 20'

Borehole Completion
 Well Installed: No
 Total Depth: 30'
 Cement Grout Seal: 29' to surface

Sample No.	Blow Count	Depth	Lithology Log	Well Detail/Backfill
			Concrete and subgrade	
EB-4 @ 5'	grab	5	SC-CL - Clayey SAND to Sandy CLAY, dark yellowish brown 10YR(4/3), 30-55% fine sand, low plasticity, rare burrows, drills dense to hard, damp.	
EB-4 @ 10'	29/50 for 2"	10	same as above but sand content increasing, very dense, damp.	
EB-4 @ 15'	24/50 for 5"	15	SP - SAND, olive brown 2.5Y(4/4) to greenish gray 5GY(5/1), fine to medium grained, <5% fines, very dense, damp to slightly moist.	
EB-4 @ 20'	51	20	same as above, dense, slightly moist to moist.	▼
EB-4 @ 25'	65	25	same as above, dense, saturated.	▼
EB-4 @ 30'	26	30	CL - Silty CLAY, light greenish brown, 5Y(4/2), laminated, <15% fine sand, 20% silt, low to med. plasticity, few burrows, oxidized mottles, very stiff, damp.	
			Bottom of Boring = 30 feet, flowing sand fills lower 1 foot.	

EMP REG 126 L

Project No. 9432 Boring/Well No. EB-5

Client: Douglas Parking Date Drilled: July 8, 1994

Location: 1721 Webster St., Oakland, CA Logged by: EL

Drilling Method: Hollowstem Permit: Zone 7 borings

Water Levels: 1st Enc: 24' Static: 18'

Borehole Completion

Well Installed: No

Total Depth: 30'

Cement Grout Seal: 29' to surface

Sample No.	Blow Han	Count	Sample	Depth	Lithology Log	Well Detail/ Backfill
					Concrete and subgrade	
EB-5 @ 5'	1000 ppm	grab	⊗	5	CL - Sandy CLAY, dark yellowish brown 10YR(3/6), 15% silt, 20% sand, low to med. plasticity, drills firm, damp. same as above, moderate petroleum odor, damp.	
EB-5 @ 10'	800 ppm	50	▨	10	same as above, 15% coarse sand, hard, slightly moist.	
EB-5 @ 15'	1000 ppm	80 for 6"	▨	15	SP - SAND, olive brown 2.5Y(4/4), fine to medium grained, strong petroleum odor, very dense, moist.	
EB-5 @ 20'	500 ppm	24/50 for 5"	▨	20	same as above, dark greenish gray 5GY(4/2), clay up to 35% disseminated, very dense, moist.	
EB-5 @ 25'	-	33	▨	25	same as above, clay <5%, strong petroleum hydrocarbon, dense, saturated.	
EB-5 @ 30'	-	32	▨	30	CL - Silty CLAY, light olive brown 5Y(6/2), 30% silt, med. to highly plastic, hard, damp.	
					Bottom of Boring = 30 feet, flowing sand fills lower 1 foot	
					Han- Hanby Field Analytical Chemical Colormetric Test for petroleum hydrocarbons in parts per million.	
					(UMP) CRG 1262	

Project No. 9432 Boring/Well No. EB-6
 Client: Douglas Parking Date Drilled: July 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 borings
 Water Levels: 1st Enc: 24' Static: 21.50'

Borehole Completion
 Well Installed: No
 Total Depth: 30'
 Cement Grout Seal: 28' to surface

Sample No.	Blow Han	Blow Count	Sample Depth	Lithology Log	Well Detail/ Backfill
EB-6 @ 5'	-	grab	5	Concrete and subgrade CL - Sandy CLAY, dark yellowish brown 10YR(4/4), 35% sand, med. plasticity, drills firm, damp.	
EB-6 @ 10'	-	42/50 for 3"	10	same as above, color darkens to dark olive gray, slight petroleum odor, hard, damp.	
EB-6 @ 15'	-	50	15	SP - SAND, olive 5Y(4/3), fine to med. grained, slight petroleum odor, dense to very dense, damp.	
EB-6 @ 20'	1000 ppm	57/50 for 5"	20	same as above, stained dark bluish gray, strong petroleum odor, very dense, moist.	
EB-6 @ 25'	-	48	25	same as above, strong petroleum odor, dense, saturated, flowing conditions.	
EB-6 @ 30'	-	51	30	CL - Silty CLAY, pale olive, 5Y(6/3), laminated, 15% silt, highly plastic, hard, damp.	
				Bottom of Boring = 30 feet, flowing sand fills lower 2 feet	
				Han-Hanby Field Analytical Chemical Colometric Test for petroleum hydrocarbons in parts per million.	
				UMP REG 1262	

Project No. 9432 Boring/Well No. MW-1
 Client: Douglas Parking Date Drilled: Sept. 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 #94501
 Water Levels: 1st Enc: 23' Static: 21.7

Borehole Completion
 Well Installed: 2" dia. Sch 40 PVC
 Total Depth: 30.5' Casing Depth: 30.5'
 Screen Length: 10' 0.020" Blank Length: 20.5'
 Top Sand Pack: 16.5' Top Bentonite: 15.5'
 Grout Seal: 15.5" to 0.5' vault box
 Top of Casing Elev. 29.25' MSL

Sample No.	Blow Count	Depth	Lithology Log	Well Detail/ Backfill
			Concrete Surface	
	grab	5	SM-SC - Silty SAND to Clayey SAND, olive brown to dark olive brown 2.5Y3/3 to 4/4, drills loose to medium dense damp Clay content increases with depth	
MW-1 @10'	24	10	Same as above, oxidation mottles, few burrows, medium dense, damp.	
MW-1 @15'	53	15	SM - Silty SAND, olive brown 2.5Y4/4, fine to med. grained, 20% silt, very dense, damp.	
MW-1 @20'	73	20	SP - SAND, dark greenish gray 5GY(4/1), fine to med. grained, very dense, moist.	
MW-1 @25'	40	25	Same as above, dark grayish brown 2.5Y(4/2), very dense, saturated, flowing conditions. Driller calls penetration rate change at 28 feet.	
MW-1 @30'	44	30	CL - Silty CLAY, pale olive 5Y(6/3), 15% silt, med. to highly plastic, hard, damp.	
			Bottom of Boring = 30.5 feet	

CUW CEG.1262

Project No. 9432 Boring/Well No. MW-2
 Client: Douglas Parking Date Drilled: Sept. 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 #94501
 Water Levels: 1st Enc: 24' Static: 20.1'

Borehole Completion
 Well Installed: 2" dia. Sch 40 PVC
 Total Depth: 30.5 Casing Depth: 29.5
 Screen Length: 10' 0.020" Blank Length: 19.5
 Top Sand Pack: 18.5' Top Bentonite: 17.5'
 Grout Seal: 17.5' to 0.5' vault box
 Top of Casing Elev. 27.10' MSL

Sample No.	Blow Han	Count	Sample	Depth	Lithology Log	Well Detail/ Backfill
					Concrete	
MW-2 @5'	-	grab	⊗	5	SM - Silty SAND, very dark grayish brown 2.5Y(3/2), sand med. to fine grained, 15% silt, drills loose, damp.	
MW-2 @10'	-	27	▨	10	SC - Clayey SAND, 10YR (4/3), clay 35-40%, silt 10% fines show low plasticity, medium dense, moist.	
					SM - Silty SAND, light olive brown 2.5Y(4/4), 15-20% silt, dense, moist.	
MW-2 @15'	500 ppm	31	▨	15	SP - SAND, dark grayish brown, 5GY (4/1), silt <5%, petroleum odor, dense, moist.	
MW-2 @20'	-	34	▨	20	Same as above, dense, moist.	
MW-2 @25'	-	38	▨	25	Same as above, dense nearly saturated.	
MW-2 @30'	-	44	▨	30	Same as above, dense nearly saturated, flowing conditions.	
					CL - Silty CLAY, pale olive brown, 5Y(6/3), 20% silt, highly plastic, hard, damp.	
					Bottom of Boring = 30.5 feet	
					Han- Hanby Field Analytical Chemical Colometric Test, in parts per million	
					0147 CEG 1262	

Project No. 9432 Boring/Well No. MW-3
 Client: Douglas Parking Date Drilled: Sept. 8, 1994
 Location: 1721 Webster St., Oakland, CA Logged by: EL
 Drilling Method: Hollowstem Permit: Zone 7 #94501
 Water Levels: 1st Enc: 28.20' Static: 21.60'

Borehole Completion
 Well Installed: 2" dia. Sch 40 PVC
 Total Depth: 30.5' Casing Depth: 30'
 Screen Length: 10' 0.020" Blank Length: 20'
 Top Sand Pack: 19' Top Bentonite: 18'
 Grout Seal: 18' to 0.5' vault box
 Top of Casing Elev. 29.50' MSL

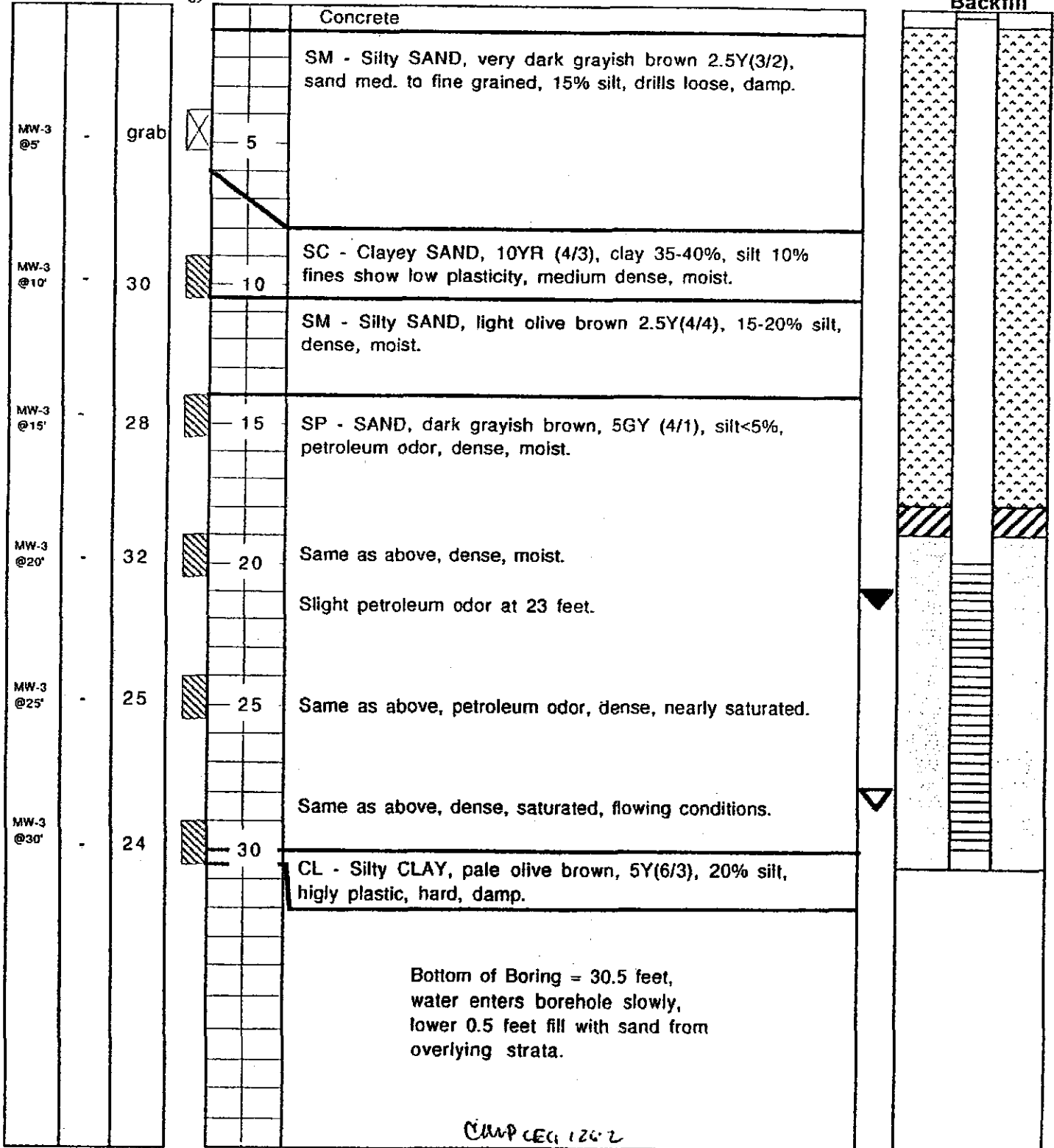
Sample No. Blow Count

Sample

Depth

Lithology Log

Well Detail/
Backfill



BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

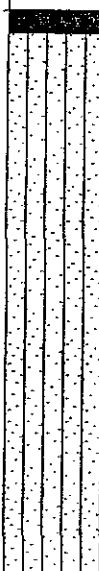
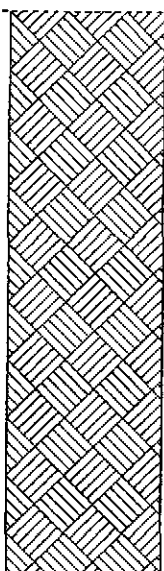
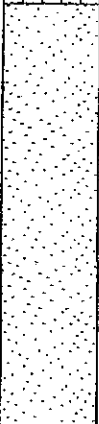
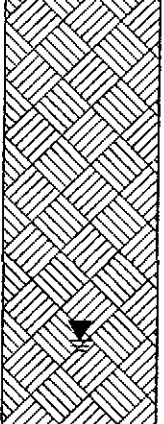
Boring ID

SB-A

Location **1721 Webster Street**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND; (SM); grey to brown; damp to moist; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				5	
10							10	
15			SAND; (SP); grey to brown; moist; 10% silt, 90% medium grained sand; high estimated permeability				15	
20				nd			20	
25							25	Bottom of boring
30							30	

Driller Vironex	Drilling Started 2/22/96	Notes: Webster Street in #4 lane
Logged By JME	Drilling Completed 2/22/96	near site entrance
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

Boring ID

SB-B

Location **1721 Webster Street**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND; (SM); brown; damp; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				5	
10			moist				10	
15			SAND; (SP); brown; damp; 10% silt, 90% medium grained sand; high estimated permeability				15	
20			grey; wet	580.00			20	
25							25	
30							30	

Bottom of boring

Driller **Vironex**

Drilling Started **2/22/96**

Notes: **Webster Street in #2 lane**

Logged By **JME**

Drilling Completed **2/22/96**

near site entrance

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

Boring ID

SB-C

Location **1721 Webster Street**

Surface Elev. **NA ft,**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND: (SM); brown; moist; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				5	
10			wet				10	
15			SAND: (SP); brown; moist; 10% silt, 90% medium grained sand; high estimated permeability				15	
20			grey; wet	1.40			20	
25							25	
30							30	Bottom of boring

Driller **Vironex**

Drilling Started **2/22/96**

Notes: **Webster Street in #4 lane,**

Logged By **JME**

Drilling Completed **2/22/96**

34' northeast of MW-2

Water-Bearing Zones **NA**

Grout Type **Portland Type I/II**

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**




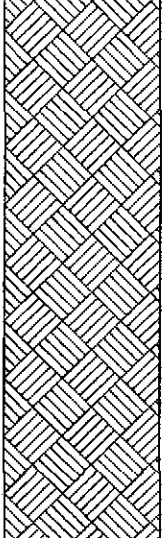
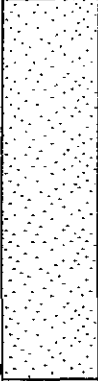
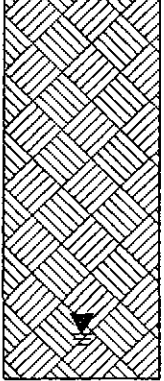
Boring ID

SB-D

Location **1721 Webster Street**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface						0	
			ASPHALT					
			Silty SAND: (SM); brown; damp; 30% silt, 70% fine to medium grained sand; moderate estimated permeability					
5							5	
10							10	
			SAND: (SP); brown; damp; 10% silt, 90% medium grained sand; high estimated permeability					
15							15	
20			grey; wet				20	
				660.00				Bottom of boring
25							25	
30							30	

Driller Vironex	Drilling Started 2/22/96	Notes: Webster Street in #4 lane,
Logged By JME	Drilling Completed 2/22/96	62' northeast of MW-2
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

Boring ID

SB-E

Location **1721 Webster Street**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND: (SM); brown; damp; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				5	
10							10	
15			SAND: (SP); brown; damp; 10% silt, 90% medium grained sand; high estimated permeability				15	
20			grey; wet	nd			20	
25							25	Bottom of boring
30							30	

Driller Vironex	Drilling Started 2/23/96	Notes: Webster Street in #4 lane,
Logged By JME	Drilling Completed 2/23/96	62' northeast of MW-2
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

Boring ID

SB-F

Location **1721 Webster Street**

Surface Elev. **NA ft.**

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND: (SM); brown; moist; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				5	
10							10	
15			SAND: (SP); brown; moist; 10% silt, 90% medium grained sand; high estimated permeability				15	
20			wet	nd			20	
25							25	Bottom of boring
30							30	

Driller Vironex	Drilling Started 2/23/96	Notes: Webster Street in #2 lane
Logged By JME	Drilling Completed 2/23/96	near 17th Street crosswalk
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BOR 58197 5/21/96

BORING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task **02**

Boring ID

SB-G

Location **1721 Webster Street**

Surface Elev. **NA** ft,

Page **1** of **1**

Depth Feet	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Boring Completion Graphics	Depth Feet	Additional Comments
0	Ground Surface		ASPHALT				0	
5			Silty SAND; (SM); brown; damp; 20% silt, 80% fine to medium grained sand; moderate to high estimated permeability				5	
10			SAND; (SP); brown; moist; 10% silt, 90% medium grained sand; high estimated permeability				10	
15			wet				15	
20			wet	nd			20	
25							25	
30							30	Bottom of boring

Driller Vironex	Drilling Started 2/23/96	Notes: Webster Street in #4 lane
Logged By JME	Drilling Completed 2/23/96	near 19th Street crosswalk
Water-Bearing Zones NA	Grout Type Portland Type I/II	

BOR 58197 5/21/96

DRILLING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task02

Well ID **MW-4**

Boring ID

SB-H

Location **1721 Webster Street**

Surface Elev. **25.64 ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth (feet)	Well Construction Details
0	Ground Surface						0	T.O.C. Elev. 25.29
0-5			ASPHALT CONCRETE FILL ; (ML); light brown; damp; 10% clay, 80% silt, 30% fine to medium grained sand; low plasticity; low estimated permeability				5	
5-10	2 4 11		Silty SAND ; (SM); brown; medium dense; damp; 30% silt, 70% fine to medium grained sand; moderate estimated permeability				10	
10-15	6 11		SAND ; (SP); brown; medium dense; damp; 5% silt, 95% medium grained sand; high estimated permeability				15	
15-20	6 15		SAND ; (SP); brown; medium dense; damp; 5% silt, 95% medium grained sand; high estimated permeability				20	
20-25	12 24		gray; wet	1			25	
25-30	3 6		loose				30	
30-35	6 12 10		Clayey SILT ; (ML); grey; very stiff; wet; 20% clay; 50% silt, 30% medium grained sand; medium plasticity; low estimated permeability	nd			35	Bottom of well

Driller SES, Inc.	Development Yield 010	Bentonite Seal 8' to 9'
Logged By JME	Well Casing 0.39 gpmDia. 0' to 15'	Sand Pack Monterey Sand
Drilling Started 5/3/96	Casing Type Schedule 40 PVC	Sand Pack Type #2/16
Drilling Completed 5/3/96	Well Screen 2" Dia. 15' to 30'	Static Water Level 16.98 ft Depth
Construction Completed 5/3/96	Screen Type Schedule 40 PVC	Date 5/10/96
Development Completed 5/6/96	Slot Size 0.010"	Notes: Webster Street in #1 lane
Water Bearing Zones NA	Drilling Mud NA	62' northeast of MW-2
	Grout Type Portland Type I/II	

WELL 58197 6/27/96

DRILLING LOG

Client: **Douglas Parking Company**

Project No: **58-197**

Phase

Task02

Well ID **MW-5**


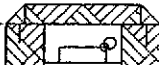


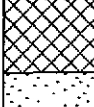
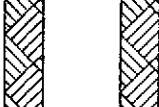
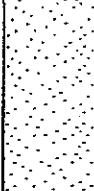
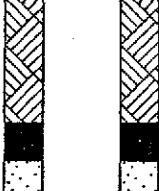

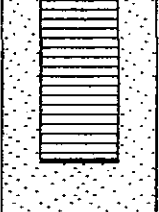
Boring ID

SB-1

Location **1721 Webster Street**

Surface Elev. **22.22 ft.**

Page **1** of **1**

Depth (feet)	Blow Count	Sample Interval	Lithologic Description	TPHg (ppm)	Graphic Log	Well Construction Graphics	Depth (feet)	Well Construction Details
0	Ground Surface						0	T.O.C. Elev. 21.97
0-1			ASPHALT				0-1	
1-2			CONCRETE				1-2	
2-5			FILL: (ML); light brown; damp; 10% clay, 60% silt, 30% fine to medium grained sand; low plasticity; low estimated permeability				2-5	
5-10			SAND: (SP); brown; very dense; damp; 5% silt, 95% fine to medium grained sand; high estimated permeability				5-10	
10-15	6 28 26						10-15	
15-20	8 26 28		moist to wet	nd			15-20	
20-25	3 4 4						20-25	
25-28	6 10 18		Clayey SILT: (ML); grey to brown; medium stiff; wet; 20% clay; 50% silt, 30% medium grained sand; medium plasticity; low estimated permeability				25-28	
28-30				nd			28-30	Bottom of well

Driller SES, Inc.	Development Yield 010	Bentonite Seal 8' to 9'
Logged By JME	Well Casing 0.52 gpm Dia. 0' to 10'	Sand Pack Monterey Sand
Drilling Started 5/3/96	Casing Type Schedule 40 PVC	Sand Pack Type #2/16
Drilling Completed 5/3/96	Well Screen 2" Dia. 10' to 25'	Static Water Level 14.60 ft Depth
Construction Completed 5/3/96	Screen Type Schedule 40 PVC	Date 5/10/96
Development Completed 5/6/96	Slot Size 0.010"	Notes: Webster Street in #4 lane near 19th Street crosswalk
Water Bearing Zones NA	Drilling Mud NA	
	Grout Type Portland Type I/II	

WELL 58197 6/27/96

EXPLANATION

- Ground Water Monitoring Well
- SB-A * Soil Boring Location
- A — A' Cross-Section Line

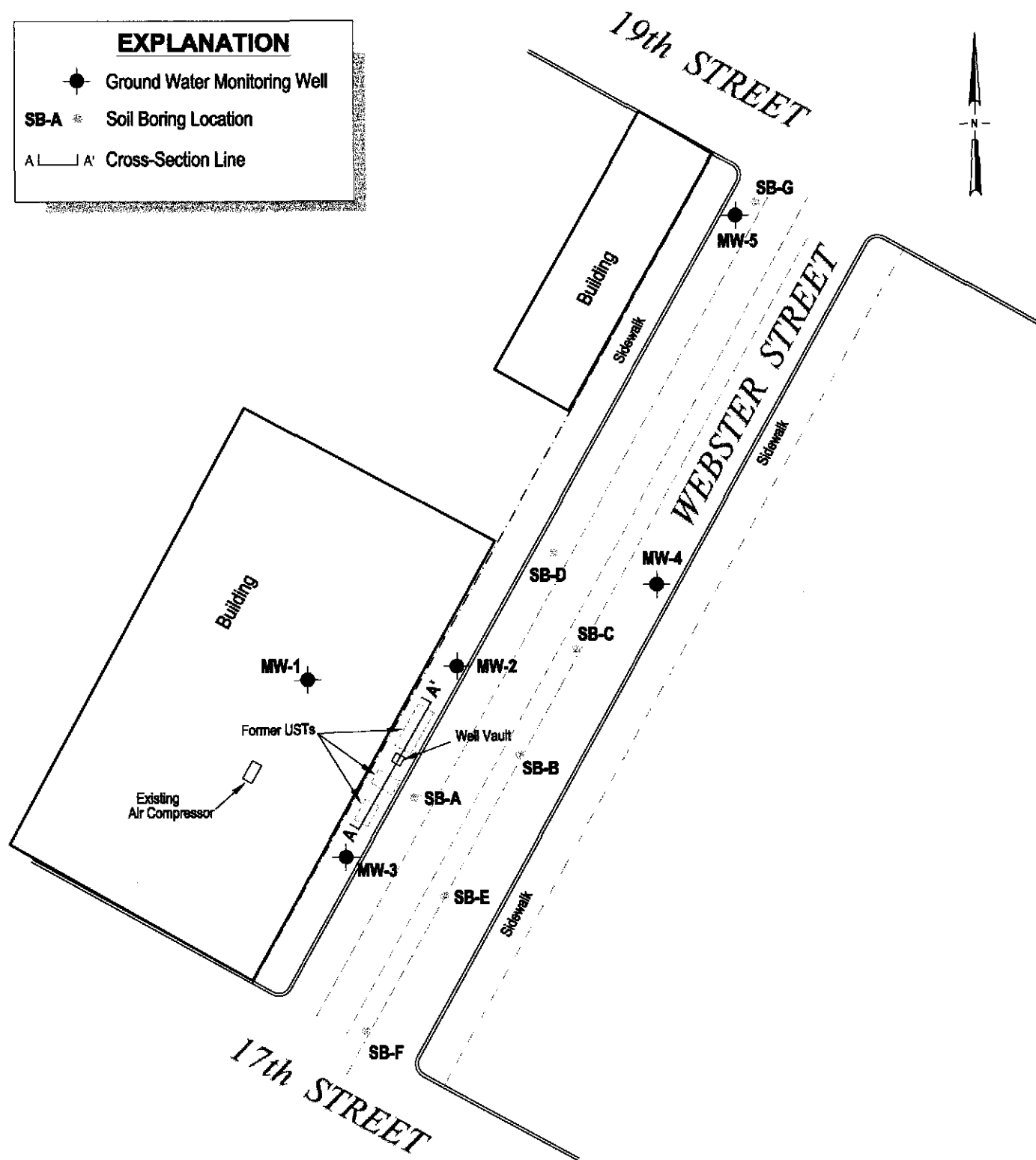


FIGURE
1

H:\88-200\DOUGLAS PARKING FACILITY\RESWELL-LOC-REV.DWG

Douglas Parking Facility
1721 Webster Street
Oakland, California



Remediation Well Locations

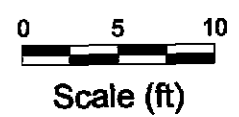
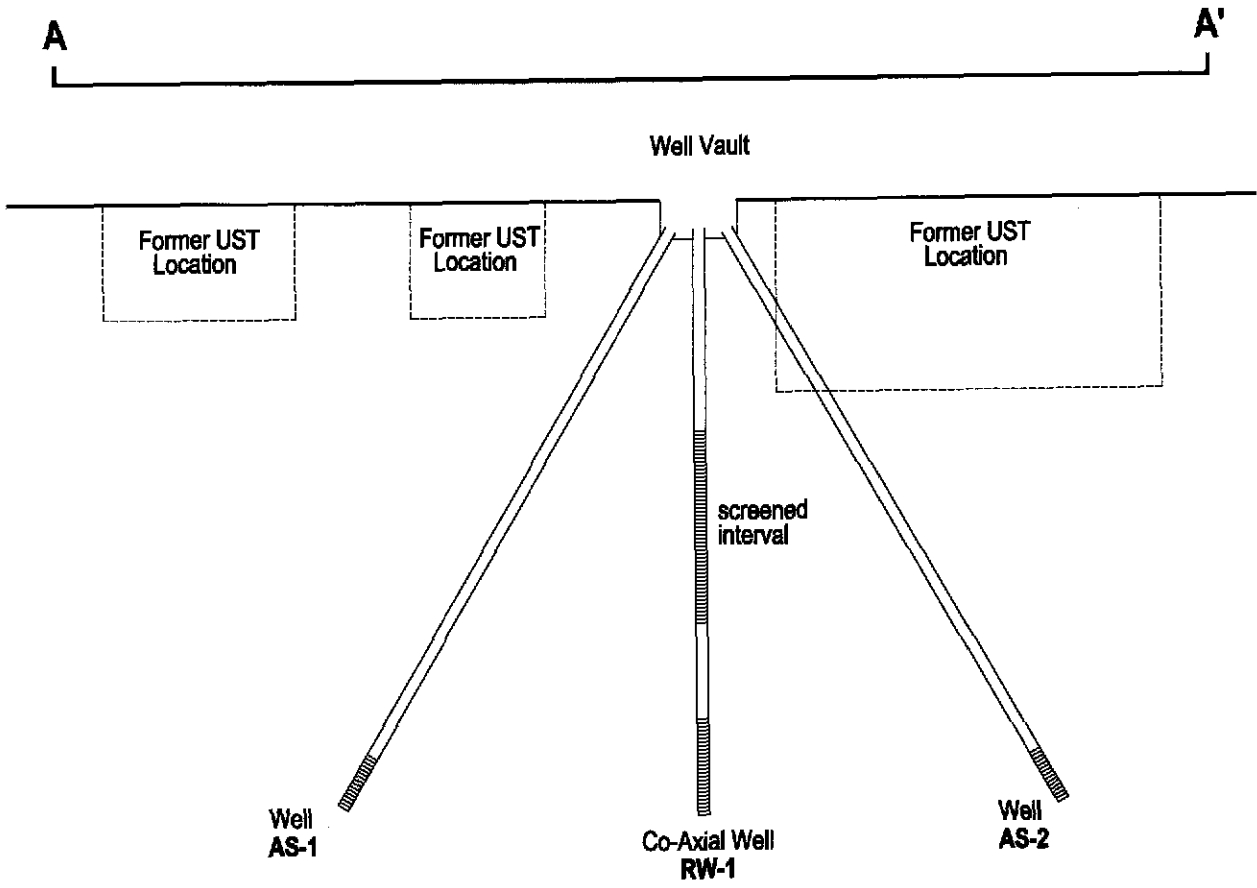


FIGURE
2

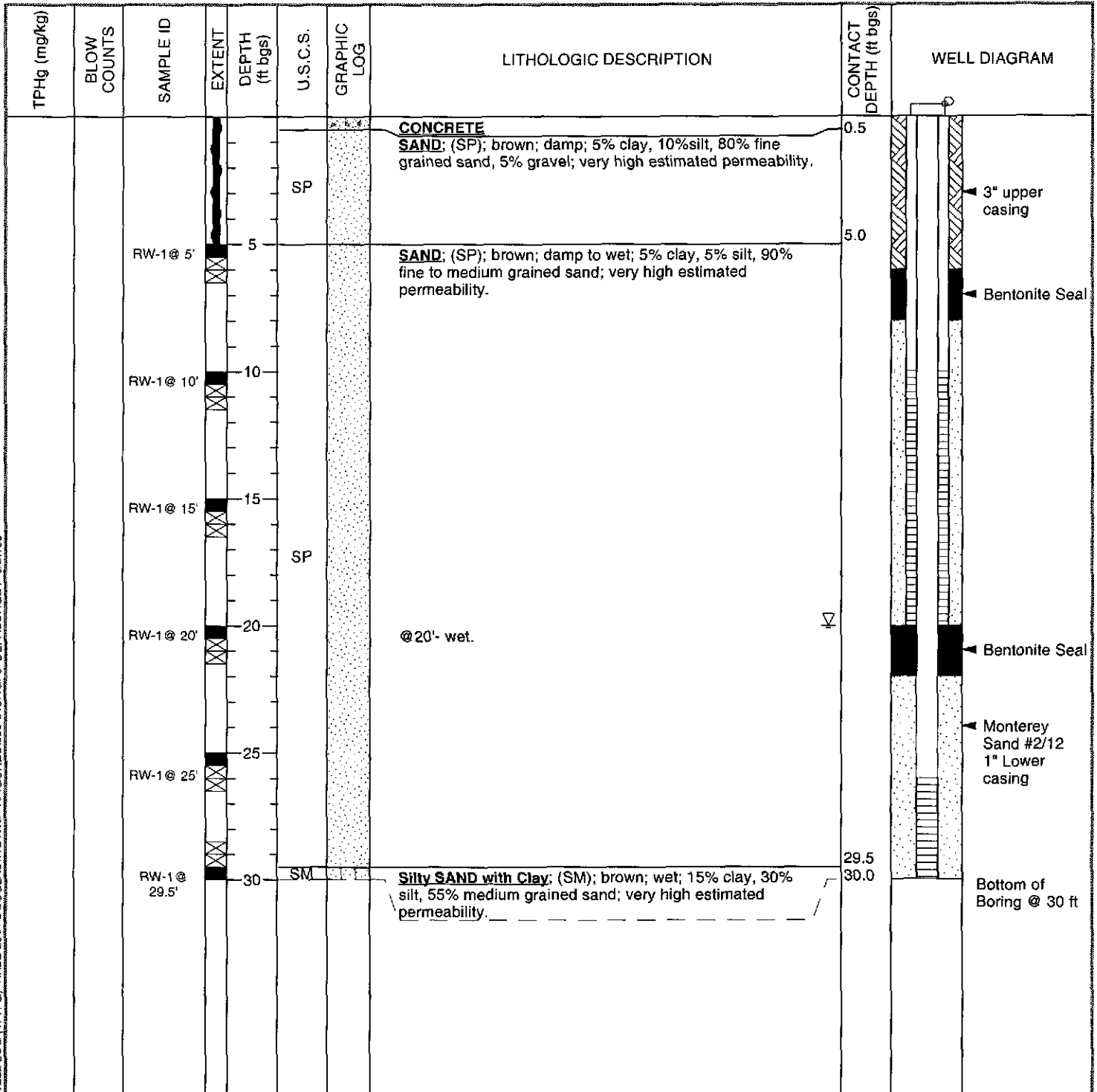
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Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Douglas Parking Company	BORING/WELL NAME	RW-1
JOB/SITE NAME	Webster	DRILLING STARTED	04-Mar-00
LOCATION	1721 Webster Street, Oakland, CA.	DRILLING COMPLETED	04-Mar-00
PROJECT NUMBER	580-0197	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger Limited Access Rhino	TOP OF CASING ELEVATION	NA
BORING DIAMETER	8"	SCREENED INTERVAL	NA
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	20.0 ft (04-Mar-00) ▽
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	NA ▼
REMARKS	Hand Augered to 5' bgs., boring located in Webster street sidewalk in garage entrance. Well is a co-axial SVE/AS well.		



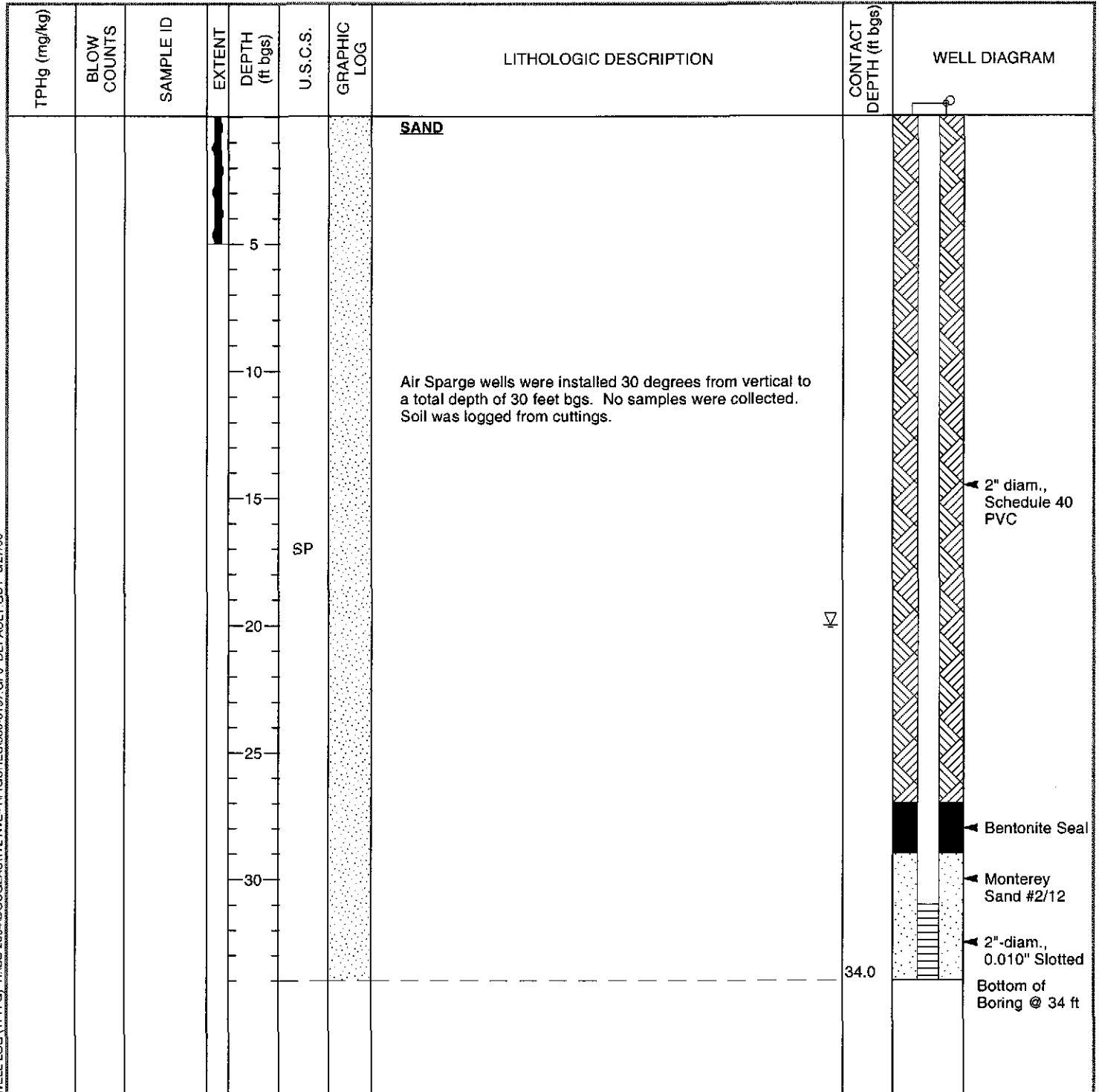
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Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
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BORING/WELL LOG

CLIENT NAME	<u>Douglas Parking Company</u>	BORING/WELL NAME	<u>AS-1</u>
JOB/SITE NAME	<u>Webster</u>	DRILLING STARTED	<u>04-Mar-00</u>
LOCATION	<u>1721 Webster Street, Oakland, CA.</u>	DRILLING COMPLETED	<u>04-Mar-00</u>
PROJECT NUMBER	<u>580-0197</u>	WELL DEVELOPMENT DATE (YIELD)	<u>NA</u>
DRILLER	<u>Gregg Drilling</u>	GROUND SURFACE ELEVATION	<u>Not Surveyed</u>
DRILLING METHOD	<u>Hollow-stem auger Limited Access Rhino</u>	TOP OF CASING ELEVATION	<u>NA</u>
BORING DIAMETER	<u>8"</u>	SCREENED INTERVAL	<u>31 to 34 ft bgs</u>
LOGGED BY	<u>J. Riggi</u>	DEPTH TO WATER (First Encountered)	<u>20.0 ft (04-Mar-00)</u>
REVIEWED BY	<u>R. Clark-Riddell, PE# 49629</u>	DEPTH TO WATER (Static)	<u>NA</u>
REMARKS	<u>Hand Augered to 5' bgs. Boring located in Webster street sidewalk in garage entrance.</u>		



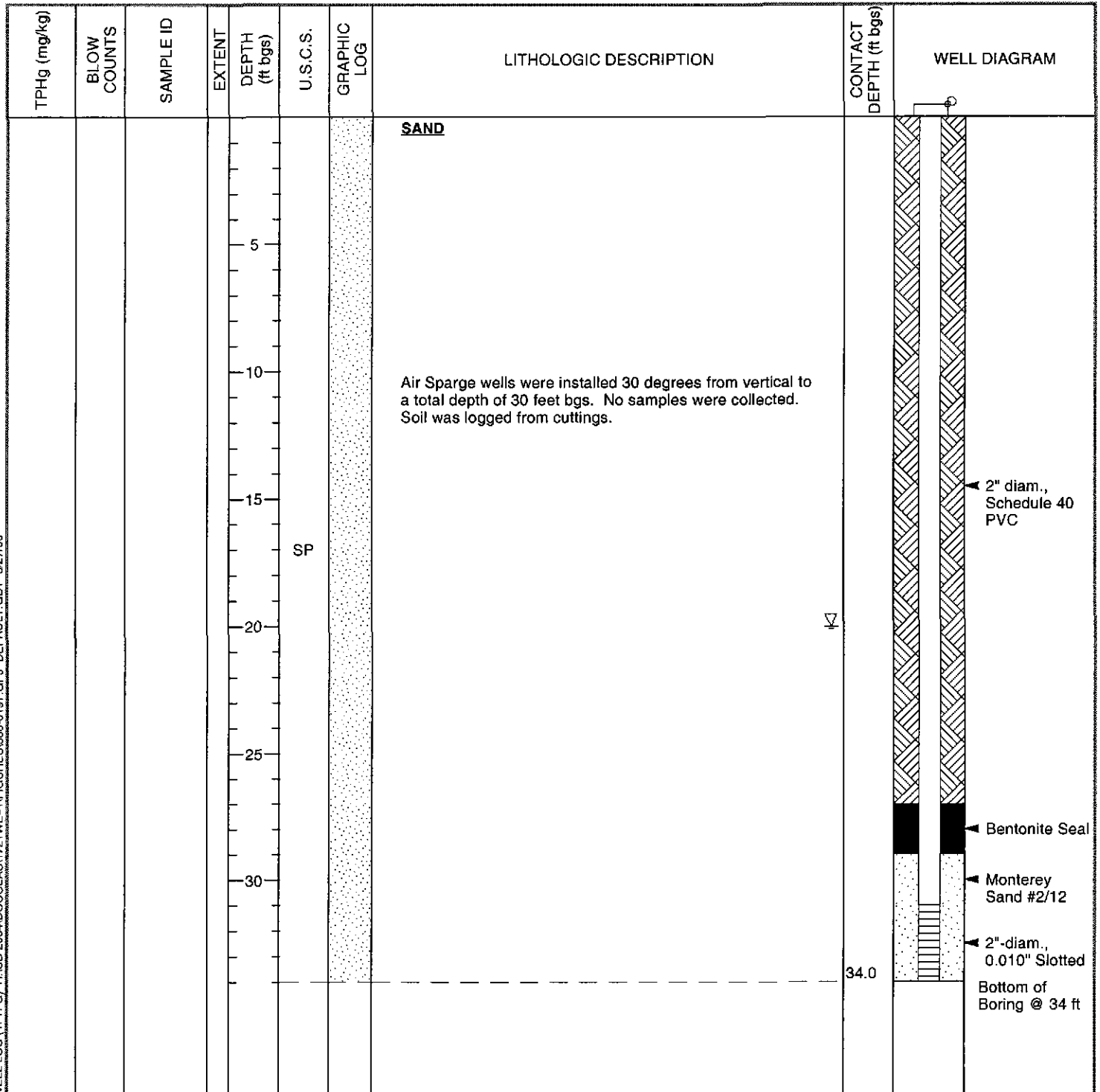
WELL LOG (TPH-G) H:\SB-2004\DOUGLAS\1721WE-1\FIGURES\580-0197.GPJ DEFAULT.GDT 3/27/00



Cambria Environmental Technology, Inc.
 1144 - 65th St.
 Oakland, CA 94608
 Telephone: (510) 420-0700
 Fax: (510) 420-9170

BORING/WELL LOG

CLIENT NAME	Douglas Parking Company	BORING/WELL NAME	AS-2
JOB/SITE NAME	Webster	DRILLING STARTED	04-Mar-00
LOCATION	1721 Webster Street, Oakland, CA.	DRILLING COMPLETED	04-Mar-00
PROJECT NUMBER	580-0197	WELL DEVELOPMENT DATE (YIELD)	NA
DRILLER	Gregg Drilling	GROUND SURFACE ELEVATION	Not Surveyed
DRILLING METHOD	Hollow-stem auger Limited Access Rhino	TOP OF CASING ELEVATION	NA
BORING DIAMETER	8"	SCREENED INTERVAL	31 to 34 ft bgs
LOGGED BY	J. Riggi	DEPTH TO WATER (First Encountered)	20.0 ft (04-Mar-00)
REVIEWED BY	R. Clark-Riddell, PE# 49629	DEPTH TO WATER (Static)	NA
REMARKS	Hand Augered to 5' bgs. Boring located in Webster street sidewalk in garage entrance.		



WELL LOG (TPH-G) H:\SB-2004\DOUGLAS\1721WE-1\FIGURES\580-0197.GPJ DEFAULT.GDT 3/27/00



"Linking Technology with Tradition"

Sanborn® Map Report

Ship to: Mary Holland-Ford	Order Date: 9/26/2003	Completion Date: 9/29/2003 2:27:
Cambria Environmental-Oakland	Inquiry #: 1055060.1S	
5900 Hollis Street	P.O. #: NA	
Emeryville, CA 94608	Site Name: Douglas Parking	
	Address: 1721 Webster St	
Customer Project: 580-0197	City/State: Oakland, CA 94612	
1014562SHA	510-420-0700	Cross Streets:

Based on client-supplied information, fire insurance maps for the following years were identified

1889 - 2 Maps	1960 - 1 Map
1903 - 1 Map	1964 - 1 Map
1911 - 1 Map	1965 - 1 Map
1950 - 1 Map	1967 - 1 Map
1952 - 1 Map	1969 - 1 Map
1953 - 1 Map	
1957 - 1 Map	
1959 - 1 Map	

Total Maps: 13

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Organization of Electronic Sanborn Image File

- First Page Sanborn Map Report, listing years of coverage
- Second Page Electronic Sanborn Map Images USER'S GUIDE
- Third Page Oldest Sanborn Map Image
- Last Page Most recent Sanborn Map Image

Navigating the Electronic Sanborn Image File

- Open file on screen.
- Identify TP (Target Property) on the most recent map.
- Find TP on older printed images.
- Using Acrobat, zoom to 250% in order to view more clearly.
 - 200-250% is the approximate equivalent scale of hardcopy Sanborn Maps.
- Zooming in on an image:
 - On the menu bar, click "View" and then zoom.
 - Use the magnifying tool and drag a box around the TP area.

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- To print only the TP area, cut and paste the area from Adobe Acrobat to your word processor.

Acrobat Version 4

- Go to the Menu bar
- Press and hold the "T" button
- Choose the Graphics Select Tool
- Draw a box around the area selected
- Go to "Menu"
- Highlight "Edit"
- Highlight "Copy"
- Go to a word processor such as Microsoft Word, paste and print.



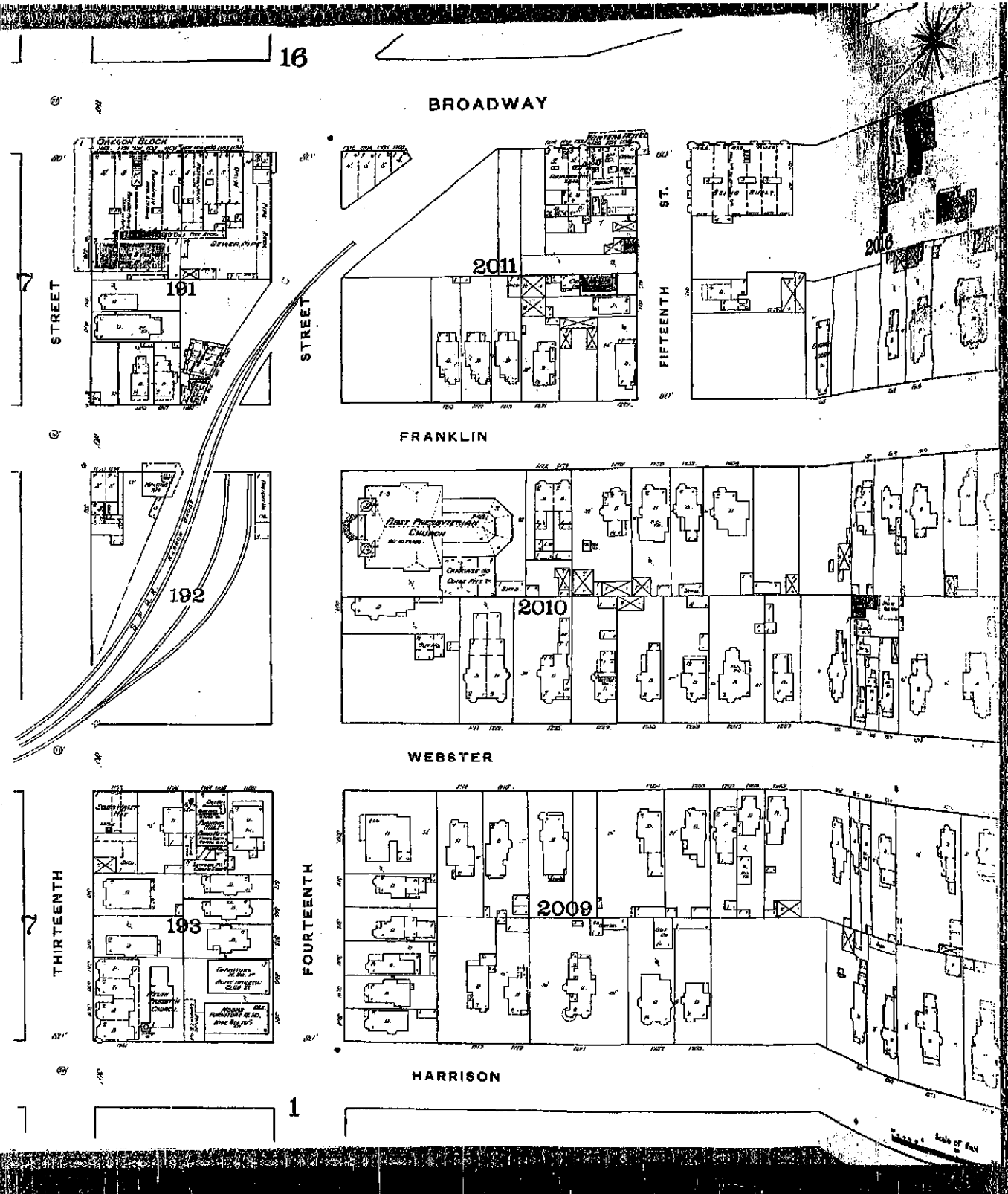
Acrobat Version 5

- Go to the Menu Bar.
- Click the "Graphics Select Tool"
- Draw a box around the area selected
- Go to "Menu"
- Highlight "Edit"
- Highlight "Copy"
- Go to a word processor such as Microsoft Word, paste and print.



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- In cases where in excess of 6-7 map years are available, the file size typically exceeds 2MB. In these cases, you will receive multiple files, labeled as 1 of 3, 2 of 3, etc. including all available map years.
- Due to file size limitations, certain ISPs, including AOL, may occasionally delay or decline to deliver files. Please contact your ISP to identify their specific file size limitations.

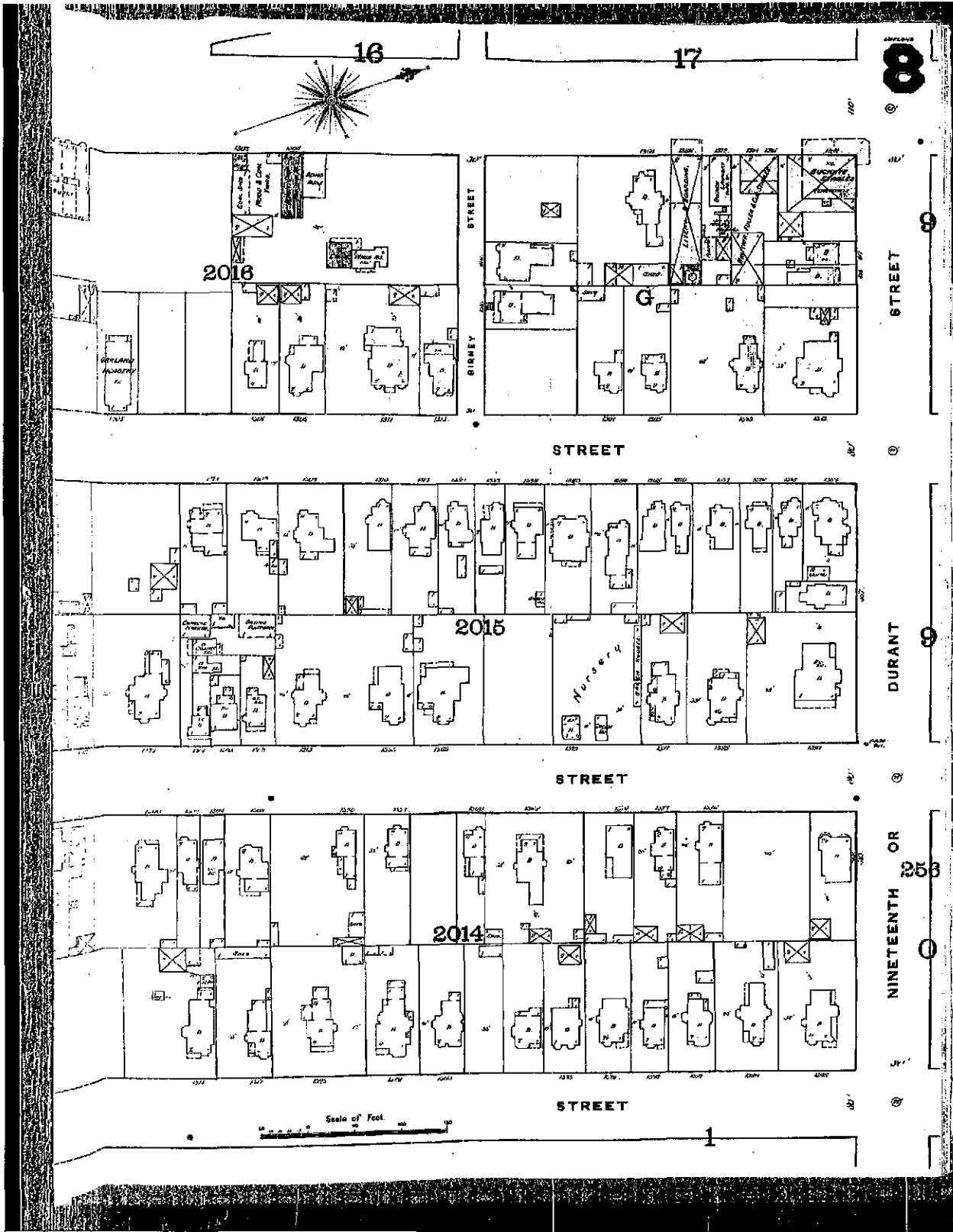


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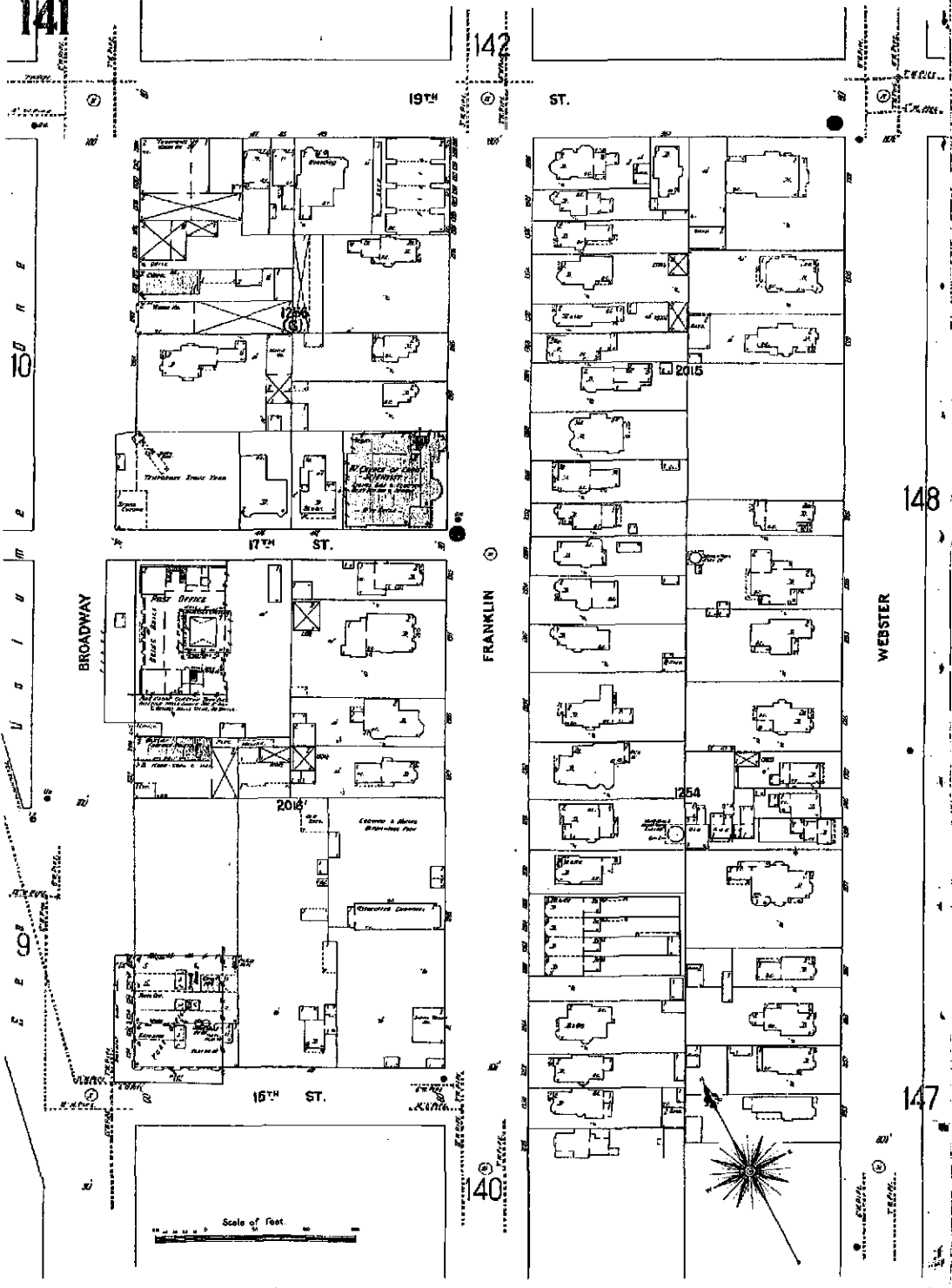
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141

142

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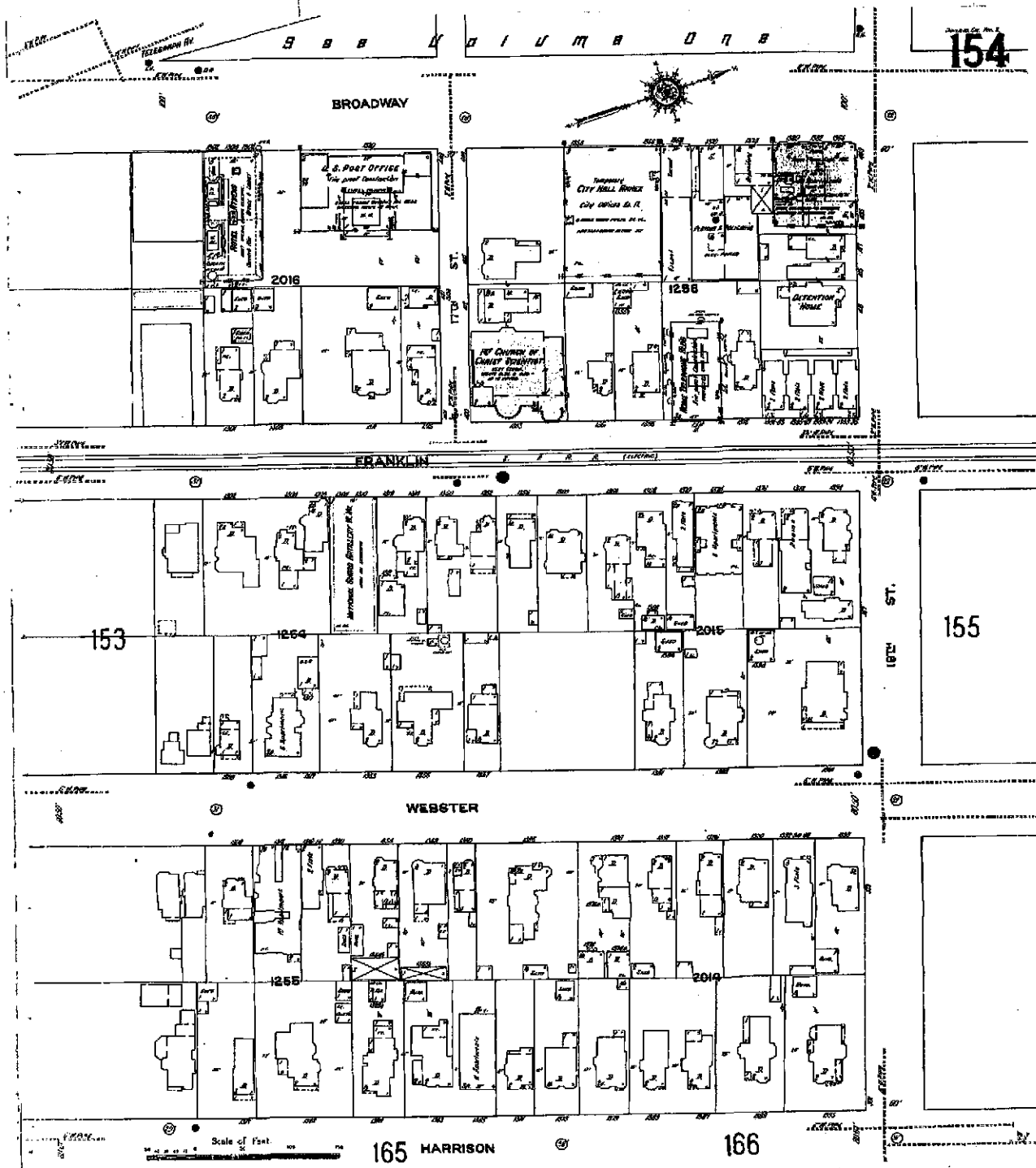


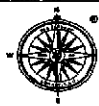
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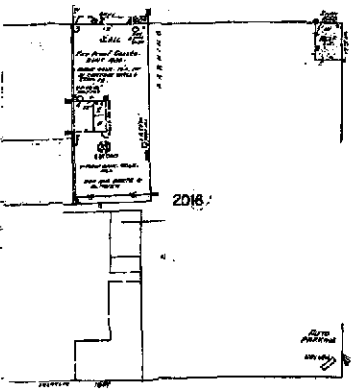
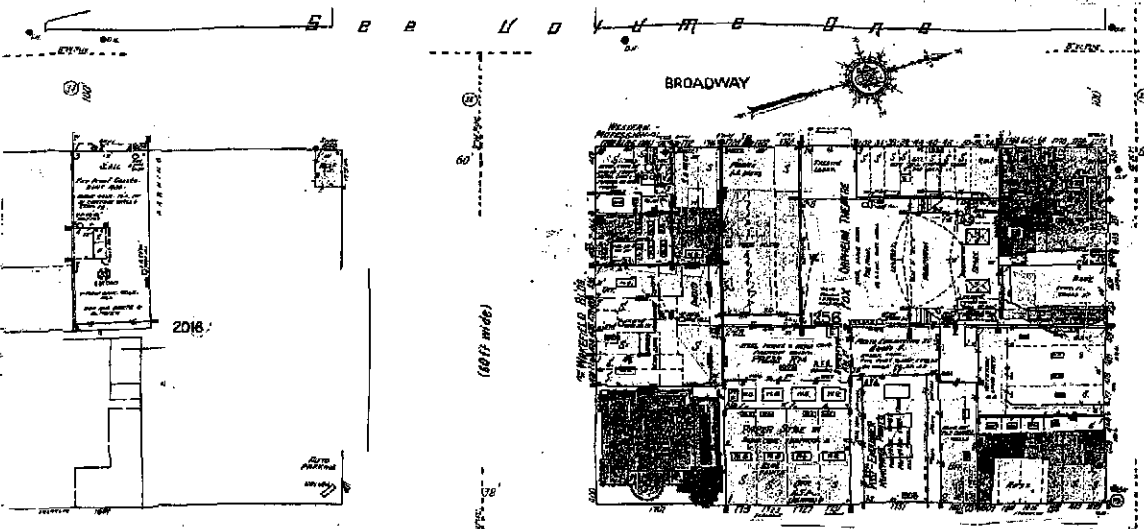
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CAL. . . 001

154
NEW SHEET
JUL. 1951

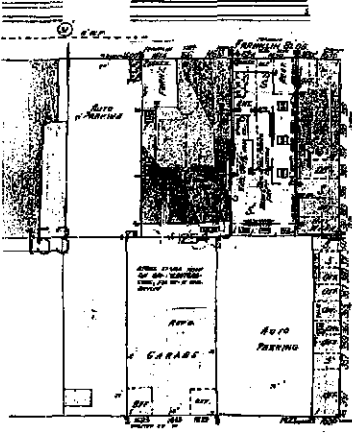


2018

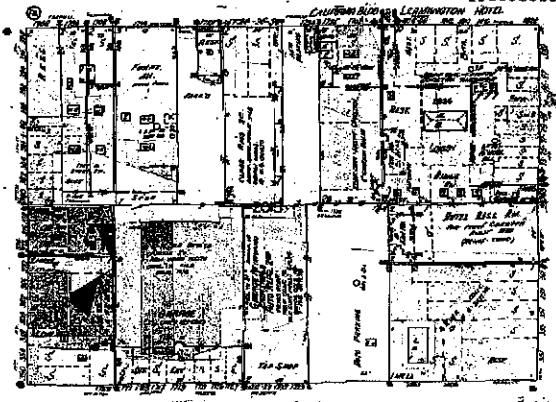
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BROADWAY

FRANKLIN

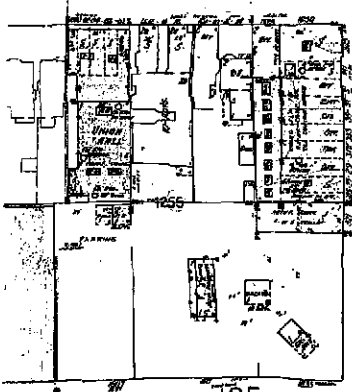


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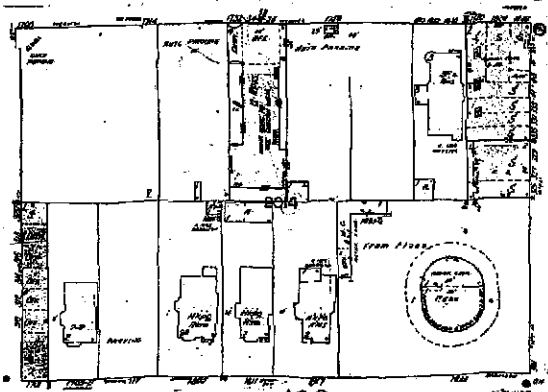
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WEBSTER



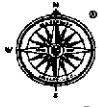
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Scale of East.



HARRISON

166

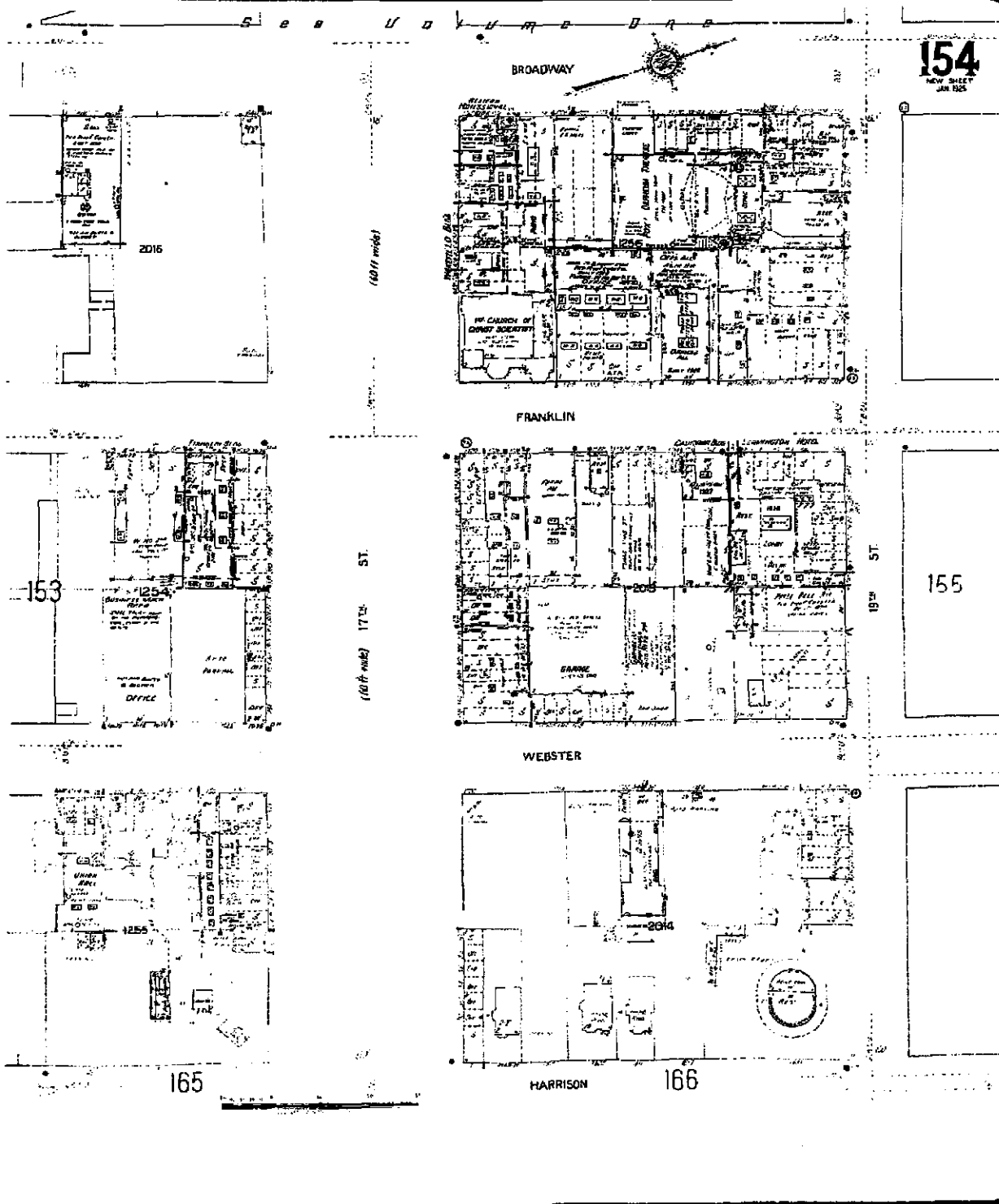


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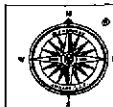
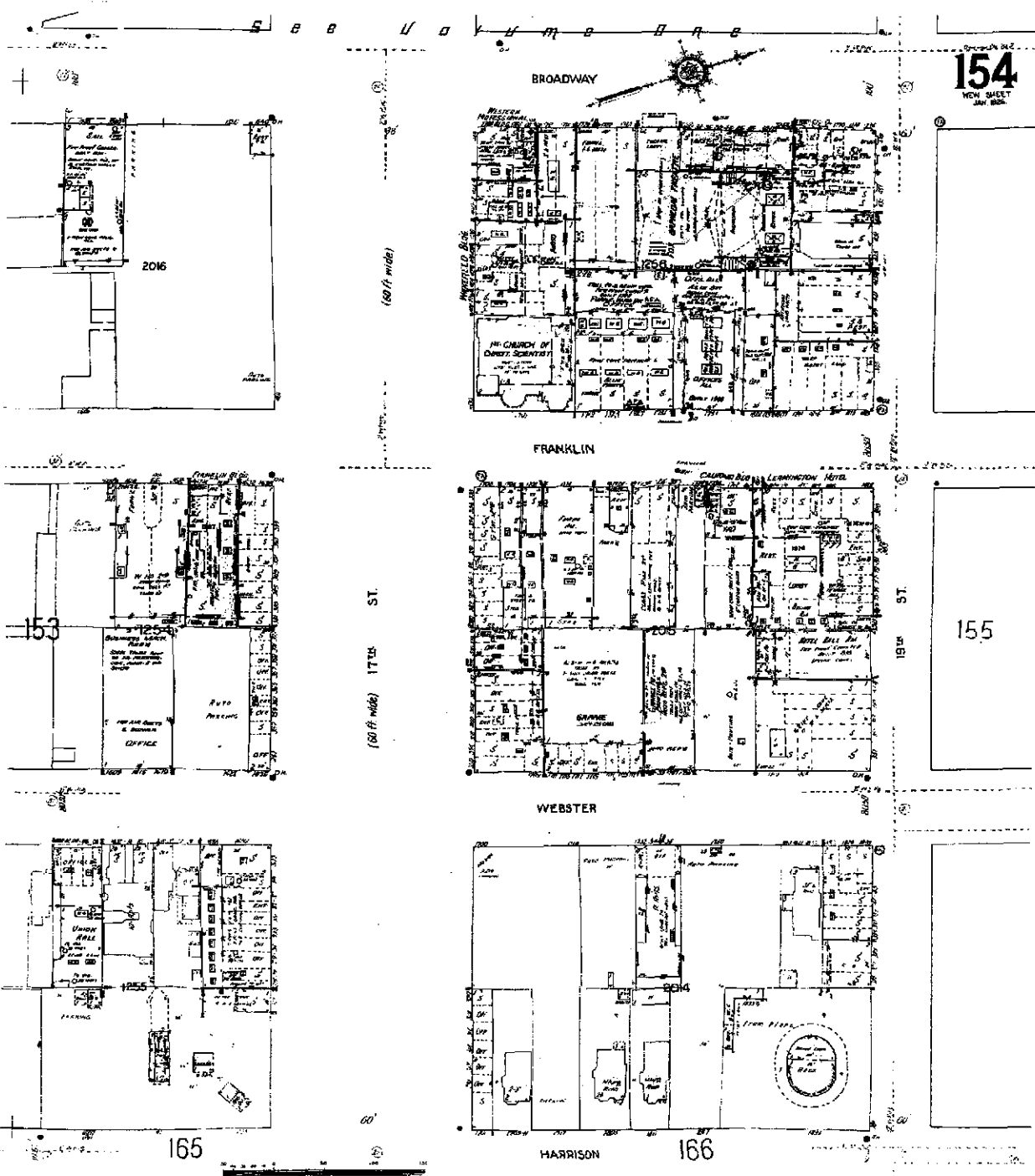


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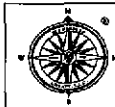
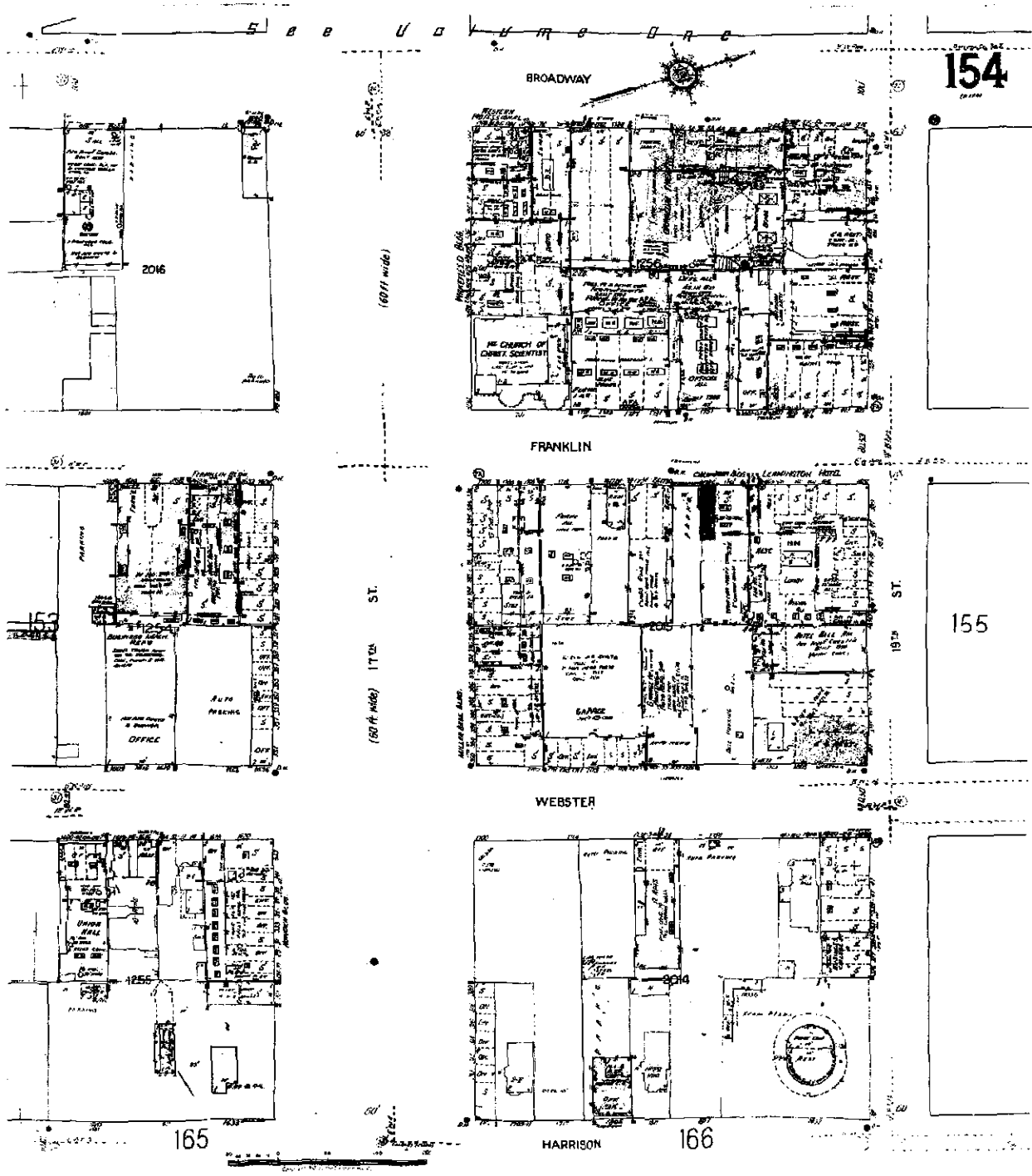


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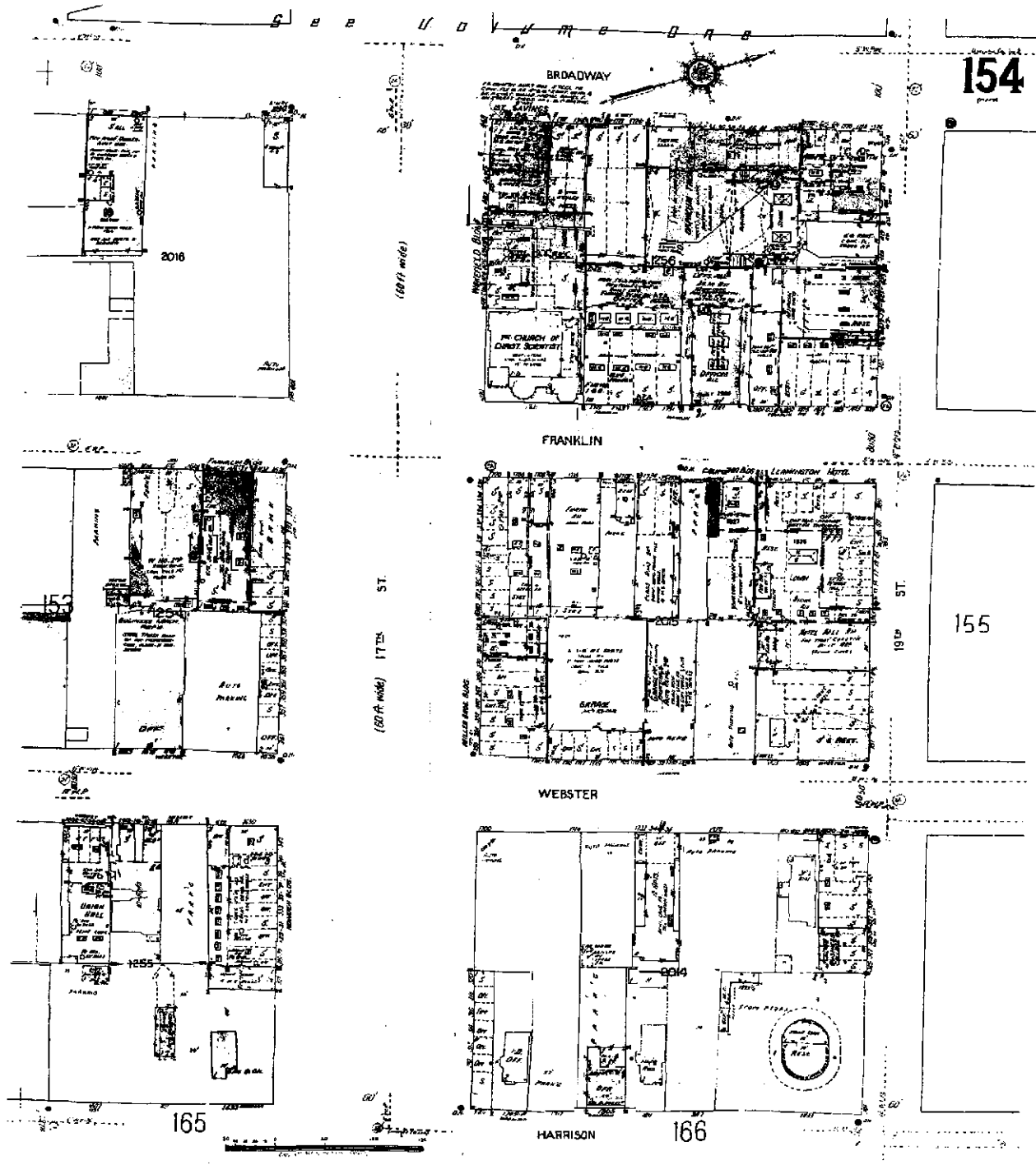


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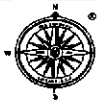
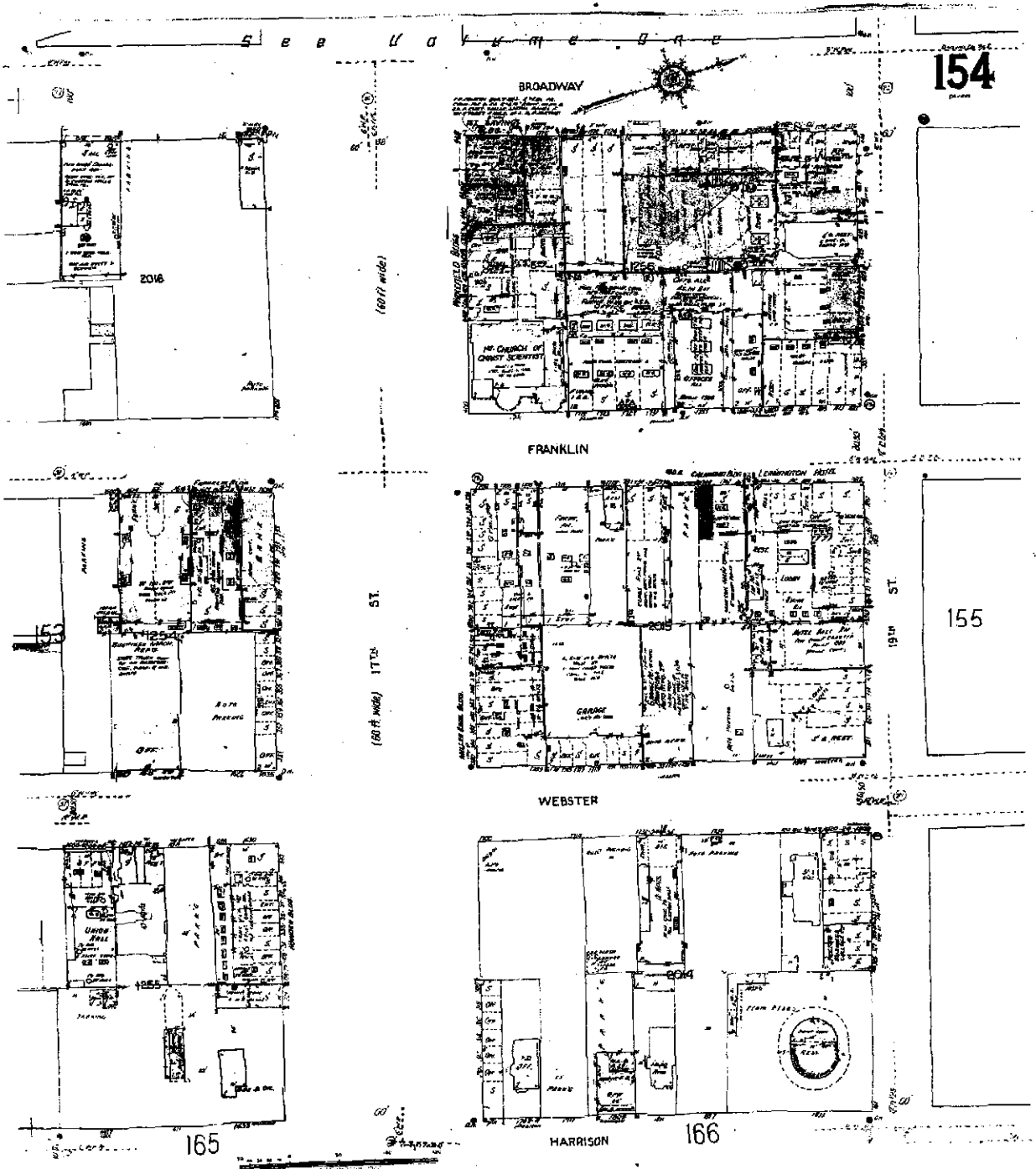


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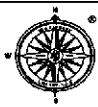
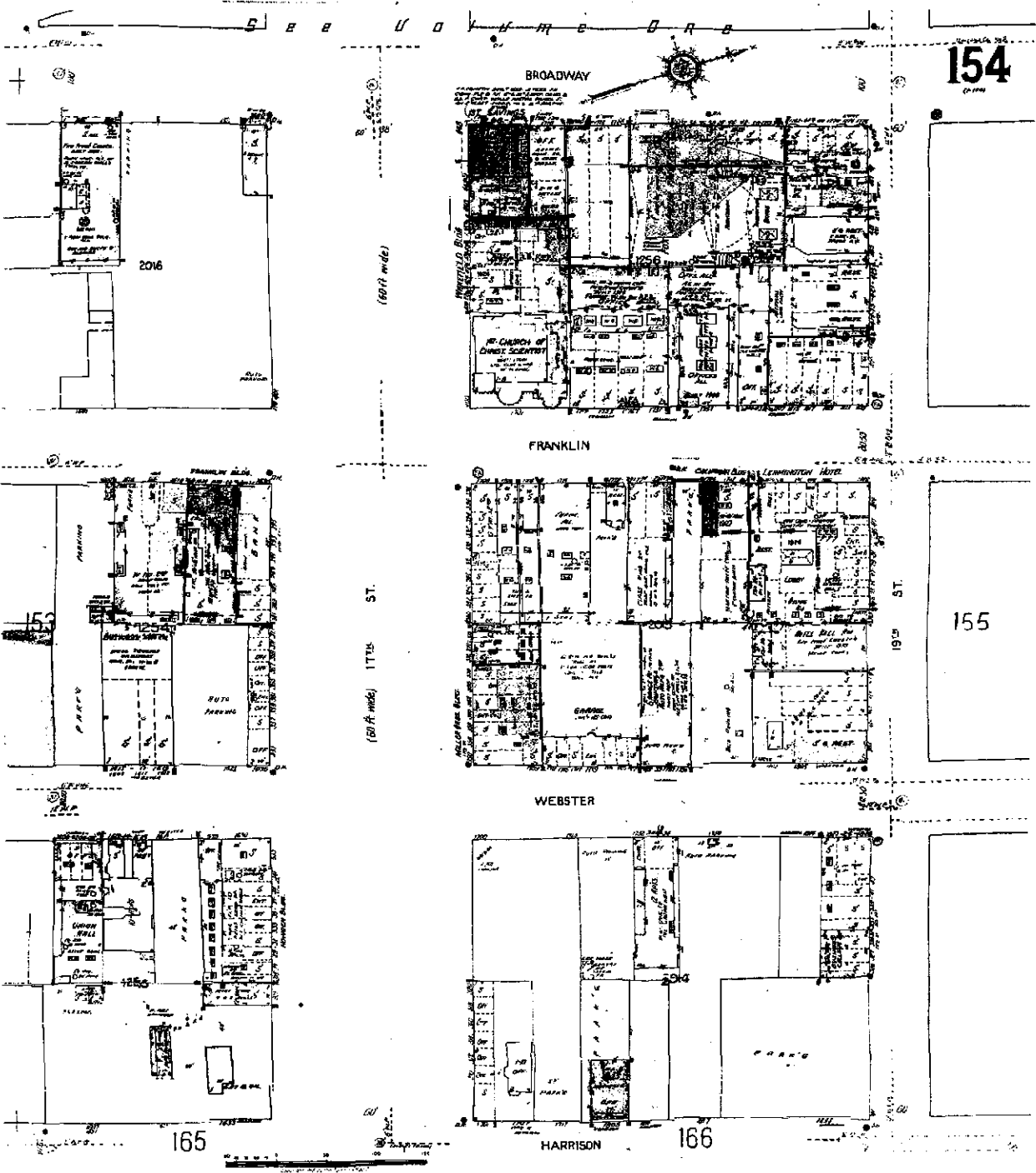


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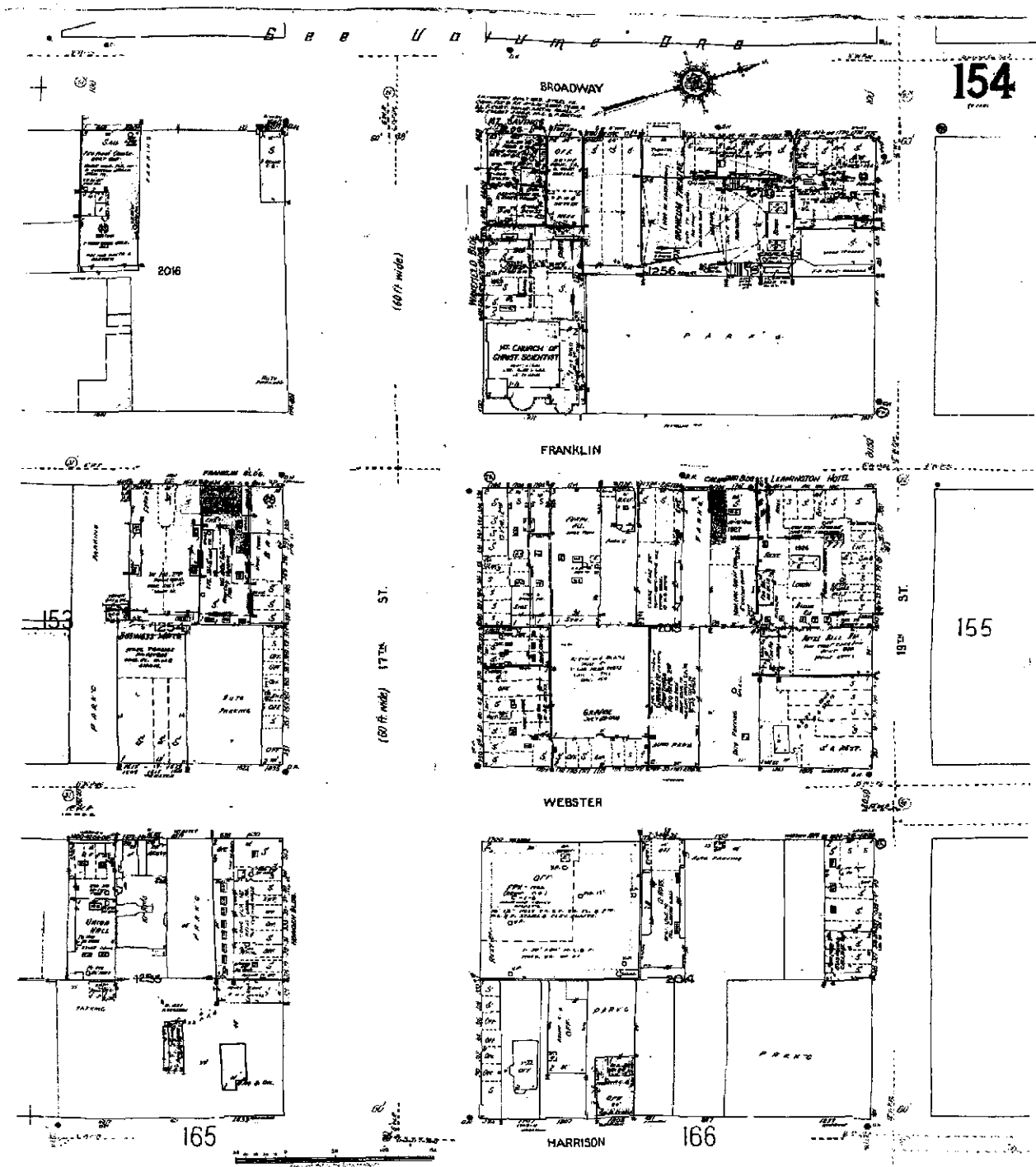


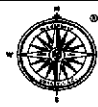
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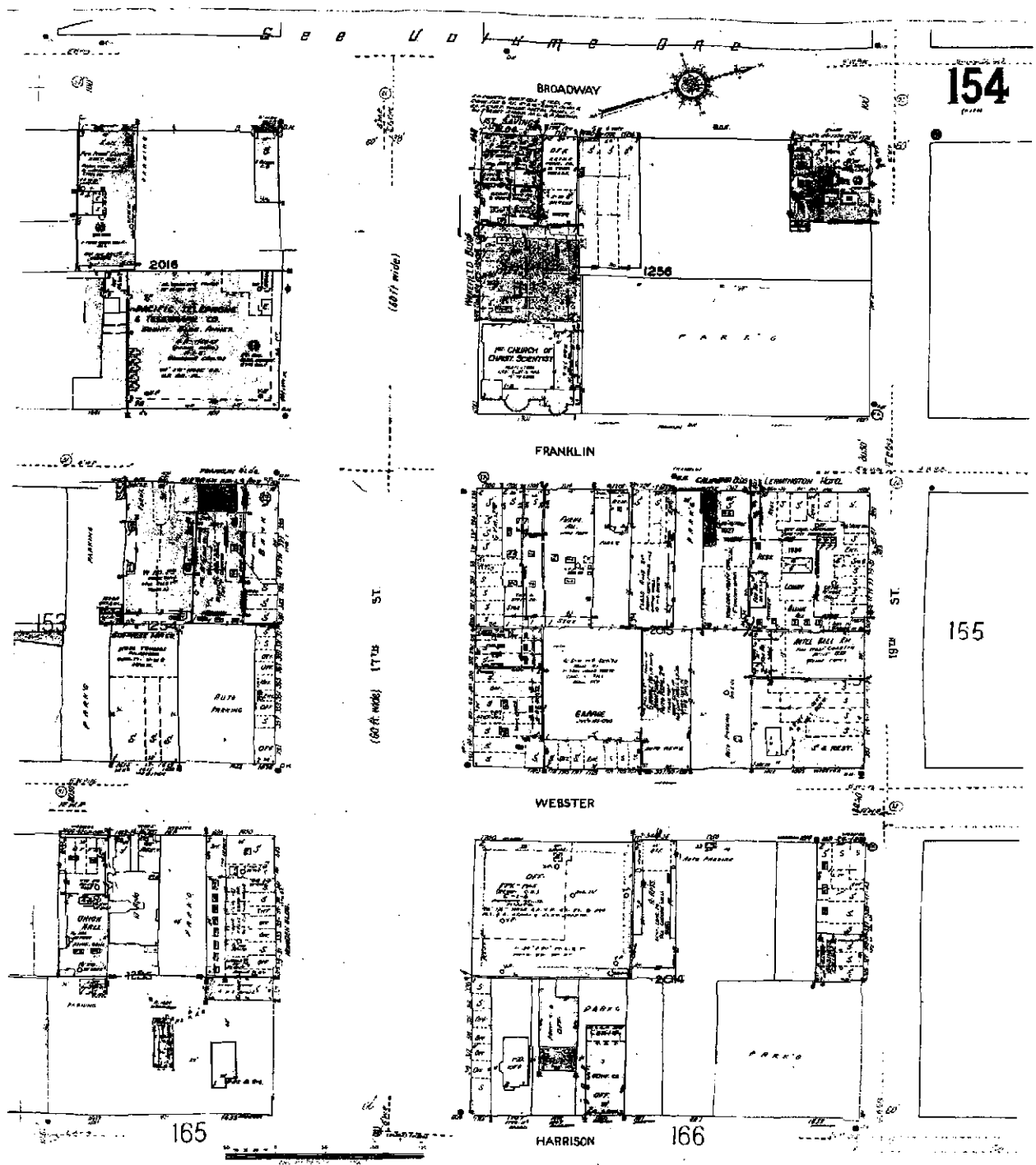
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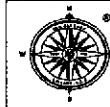
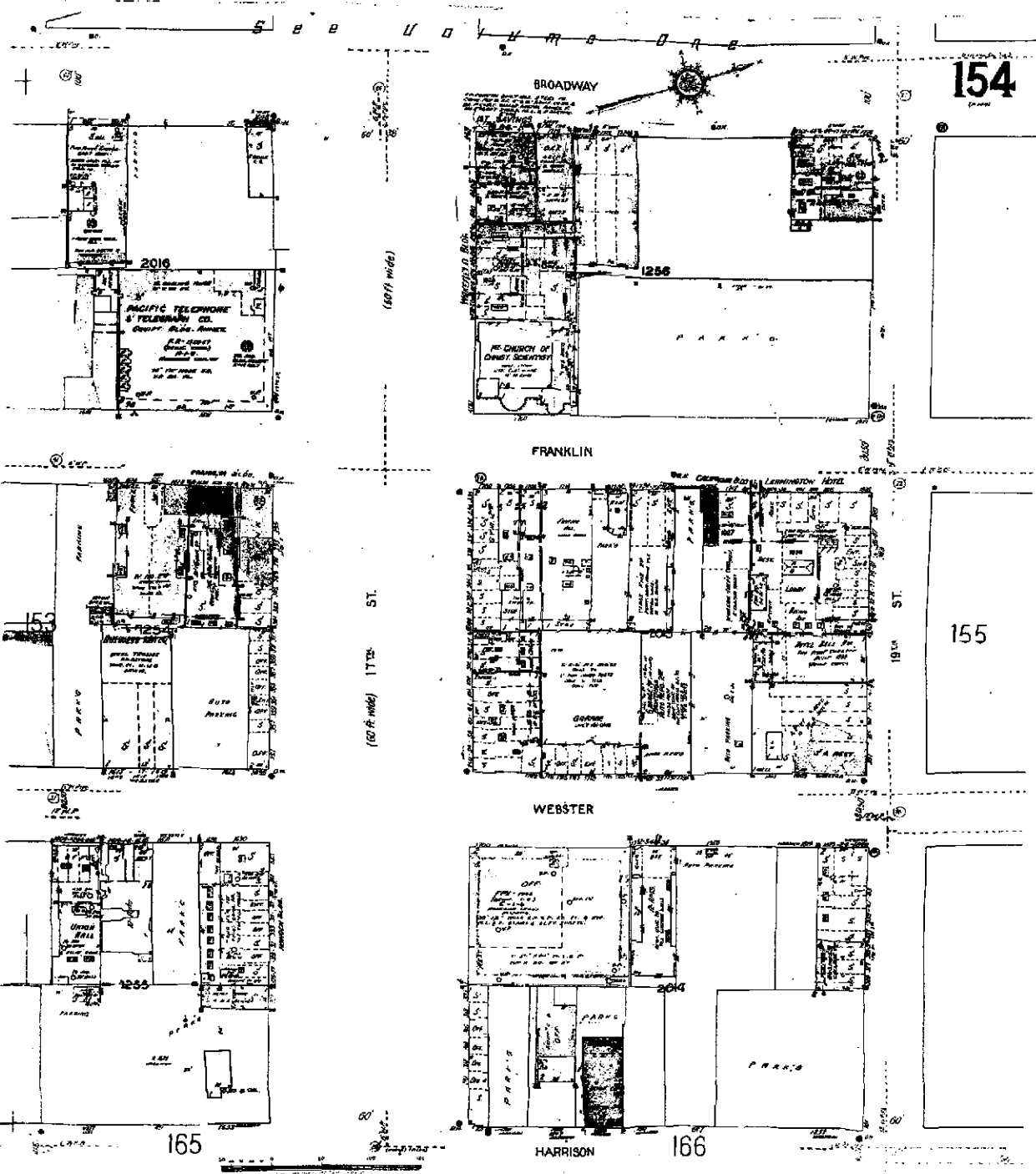
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ASSESSOR'S MAP 8

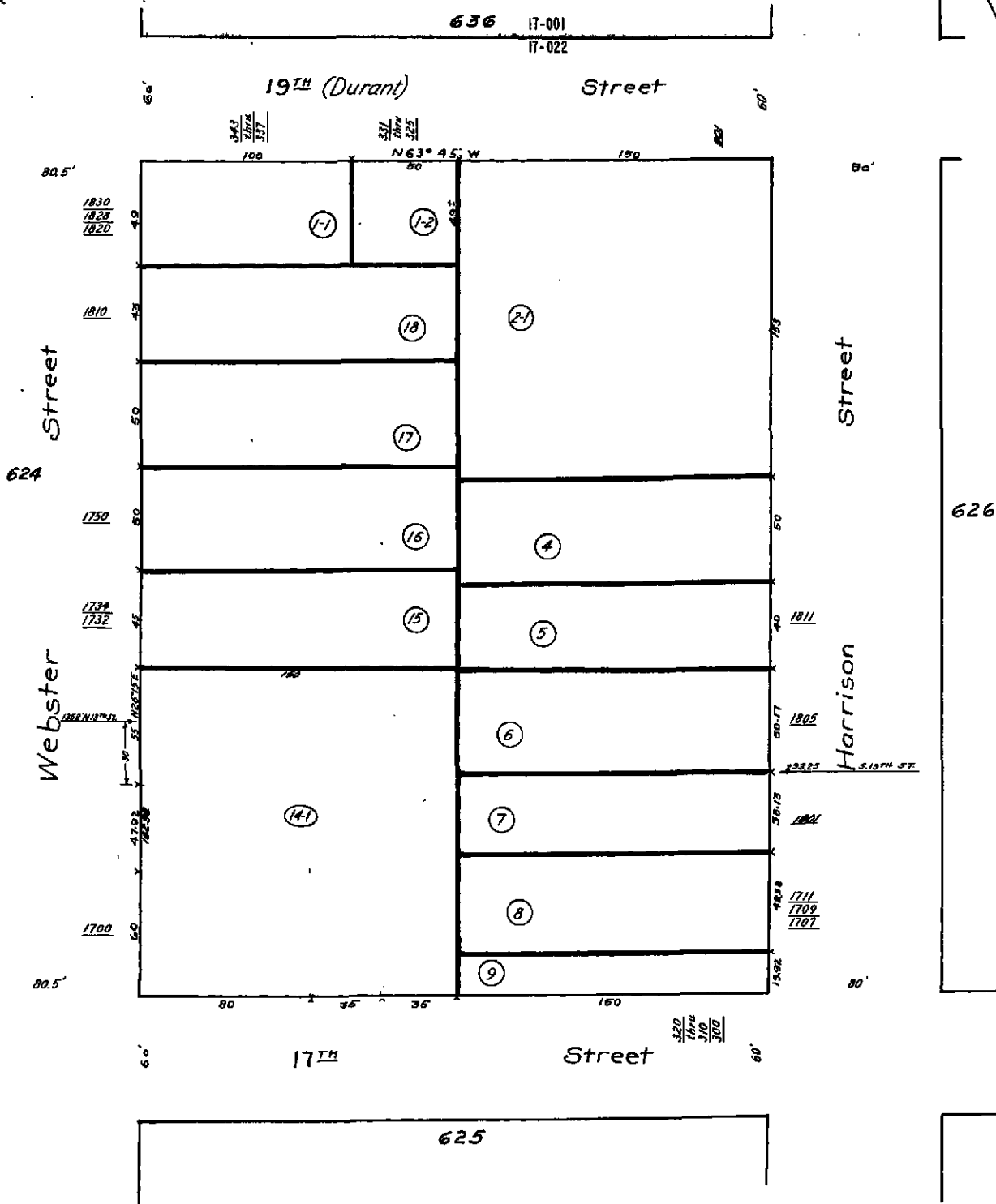
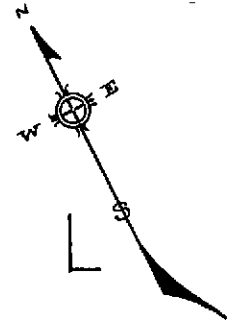
Map of Oakland and vicinity showing plan of streets, as established and proposed: compiled from official surveys and records of the County, as per W.F. Boardman City and County Surveyor. (Bk. 17 Pg. 14)

Scale 1 in = 40 ft.

625
2135

Page 1

REV. 1-1-1902



HPN

