

6920 Koll Center Parkway  
Suite 216  
Pleasanton, CA 94566  
925.426.2600  
Fax 925.426.0106



May 18, 2004

Barney Chan  
ALAMEDA COUNTY ENVIRONMENTAL HEALTH DEPARTMENT  
1131 Harbor Bay Parkway  
Alameda, CA 94502-6577

Clayton Project No. 70-03365.06

Subject: Preferential Pathway/Utility Survey  
Former Dunne Paint Facility  
1007 41<sup>st</sup> Street in Oakland/Emeryville and  
4050 Adeline Street in Emeryville, California

Dear Mr. Chan:

Clayton Group Services, Inc. (Clayton) is pleased to present the results of our Preferential Pathway/Utility Survey for the subject property and for the adjacent portions of 41<sup>st</sup> and Adeline Streets. The location of the subject property is shown on Figure 1. The survey scope of work, which was presented in our letter dated December 22, 2003 and approved by the Alameda County Health Care Services Agency on January 20, 2004, included identification and evaluation of underground utilities and gravel areas that may have the potential to act as preferential conduits for groundwater migration.

**Underground Utilities**

Utilities in the vicinity of the subject property are owned and maintained by various agencies. Clayton contacted the City of Emeryville Public Works Department, City of Oakland Public Works Department, East Bay Municipal Utility District (EBMUD), and Pacific Gas and Electric Company (PG&E) and obtained available maps and information. In addition, the architectural firm for Green City Lofts provided information it had obtained. This research provided information on the underground utility locations for low-pressure natural gas, fire and domestic water, high-pressure natural gas, electrical, storm sewers, sanitary sewers, telephone, and the main storm water interceptor. These utilities are shown on Figure 2. According to the maps Clayton obtained, the majority of the underground utilities are located between 3 and 4 feet below ground surface and no deeper utilities are located on the former Dunne Paint property.

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Alameda County Environmental Health Department  
May 18, 2004

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The utilities identified within Adeline Street between 41<sup>st</sup> and 40<sup>th</sup> Street are:

- High Pressure Natural Gas, 16-inch diameter, depth about 3-4 feet
- Water, 10-inch diameter, depth about 3-4 feet
- Low Pressure Natural Gas, 2-inch diameter, depth about 3-4 feet
- Underground Telephone, 4-inch diameter, depth about 3-4 feet
- Storm Drain, 18-inch diameter, depth about 5 to 6 feet
- Sanitary Sewer (encased), 12-inch diameter, depth about 7 to 8.5 feet
- Adeline Storm Water Interceptor, 48-inch diameter, depth about 18 feet

The utilities identified within 41<sup>st</sup> Street between Adeline and Linden Streets appear to be following:

- Sanitary Sewer, 6-inch diameter, depth about 5 to 7 feet
- Low Pressure Natural Gas, 2-inch diameter, depth about 3-4 feet
- Water, 4-inch diameter (possibly 2 lines), depth about 3-4 feet
- Underground Telephone, 4-inch diameter, depth about 3-4 feet

### **Sand and Gravel Areas**

The subject property and vicinity are underlain primarily with fine-grain, low permeability clay and silt; however, in certain locations, distinct gravel areas have been encountered. During the recent construction of the basement for new development, distinct gravel areas at depths below the groundwater surface were encountered in the central (between borings B-17 and B-18) and the northern portions (near MW-D2) of the subject property and appeared to meander to the west. These gravel areas were encountered at depths of about 7 to 8 feet below the surrounding ground surface. The groundwater surface in the area primarily fluctuates between 6 and 9 feet below ground surface, with occasional fluctuations within 41<sup>st</sup> to within 5 feet of the ground surface. The sand and gravel in the northern area was light brown with angular gravel up to 1-inch in size. The sand and gravel area in the central portion of the subject property was gray to black in the upper portion and underlain by brown gravel up to 0.5 inch in diameter.

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May 18, 2004

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As part of the extensive remedial activities undertaken at the site on behalf of Green City Lofts, the upper portions of the two, above-described, encountered gravel areas were removed, with the gravel area in the central portion excavated and removed to the western property boundary. The width of the gravel area in the central portion of the subject property was about 6 to 10 feet; the width of the gravel in the northern portion is unknown and appears to extend off-site to the north. During the remedial activities, the entire area underlying the former Dunne Paint property, including the gravel areas, was excavated to remove material contaminated with mineral spirits in accordance with Alameda Health Care Services Agency requirements.

Over time, more than 60 borings have been drilled by various parties at locations on and around the subject property as shown on Figure 3. Lithologic logs for these borings are presented in Attachment A. As shown on the logs, fairly distinct sand and gravel zones were encountered below the groundwater surface in various areas of the subject property, including areas where the gravels were subsequently excavated and removed. In addition, to aid dewatering efforts for the remedial project, sand and gravel areas were specifically located for the installation of the extraction wells. As part of remedial activities, nearly 2,000,000 gallons of contaminated groundwater were extracted, treated, and discharged off-site. The sand and gravel areas encountered in the soil borings and extraction wells are shown on Figure 3. Except in the areas where the sand and gravel were excavated, the continuity of the sand and gravel areas is not known.

### **Evaluation of Potential Preferential Pathways**

Clayton evaluated the potential for underground utilities and the sand and gravel areas to act as preferential pathways for groundwater migration. As noted above, sand and gravel areas underlying the subject property were exposed and inspected during the remedial activities. As part of the remedial activities at the subject property, nearly 2,000,000 gallons of groundwater were extracted and treated. The extraction wells were located within the sand and gravel areas at the subject property and were pumped at a relatively constant aggregate rate of 10 gallons per minute for nearly six months. This suggests that the primary groundwater flow at the subject property is within the sand and gravel areas rather than in the general fine-grained, low permeability clay and silt matrix, which predominates in the area, and which, by contrast, produces limited groundwater. The sand and gravel zones observed at the subject property appear to provide primary groundwater drainage in the area and may provide preferential drainage and migration from various properties, including up-gradient and nearby properties that drain to or are interconnected with other sand and gravel zones in the area.

Based on available depth to groundwater data collected within 41<sup>st</sup> Street and Adeline Street (wells CW-1, CW-2, and CW-3, MW-B2, MW-B3, and MW-B4), it appears that the groundwater surface primarily fluctuates between 6 and 9 feet below ground surface, with occasional fluctuations within 41<sup>st</sup> to within 5 feet of the ground surface. This

suggests that only utilities with permeable backfills deeper than 5 feet below ground surface within 41<sup>st</sup> Street and Adeline Street have a potential to act as preferential pathways for groundwater migration. These deeper utilities may include the sanitary sewer, storm drain, and storm water interceptor in Adeline Street and the sanitary sewer in 41<sup>st</sup> Street. These utilities are shown on Figure 3.

The 18-inch diameter storm drain, which according to City of Emeryville drawings was installed around 1959, is situated between 5 and 6 feet below ground surface in Adeline Street. The drawings do not indicate whether permeable backfill was used to construct the storm drain. In any event, the storm drain is at a depth that would only occasionally have the potential to intercept groundwater. Furthermore, it is situated within the fine-grain, low permeability soil and located above the more permeable sand and gravel zones that have been identified. Based on this information, the storm drain has only limited potential to act as a preferential pathway for groundwater.

The 48-inch storm water interceptor, according to EBMUD as-built records, was constructed around 1990 and has an invert depth of about 18 feet. The records show that trench plugs, presumably constructed of low permeability soil, were routinely placed in the annular space around the utility to prevent preferential groundwater migration within the backfill. This utility is below the groundwater surface and may intercept the sand and gravel zones at depth; however, trench plugs were designed to limit the ability of this utility to act as a preferential pathway for groundwater migration.

The sanitary sewer in Adeline Street was apparently installed around 1959 and has an invert depth in Adeline Street ranging from 7 to 8.5 feet below ground surface. This utility is within the apparent groundwater fluctuation zone and at a depth that could potentially encounter the identified sand and gravel zone. However, recent groundwater sampling data from monitoring wells located in known sand and gravel zones within Adeline Street indicate that no contaminated groundwater is migrating from the subject property. Therefore, there is little evidence that the sanitary sewer in Adeline is currently acting as a preferential pathway for contaminated groundwater emanating from the subject property.

The sanitary sewer in 41<sup>st</sup> Street is also at a depth that could act as a preferential pathway for groundwater migration. According to City of Oakland maps, the sanitary sewer in 41<sup>st</sup> Street flows to the east and to the west in the Oakland and Emeryville portions of the street, respectively. The sanitary sewer in 41<sup>st</sup> Street appears to be located up-gradient of the subject property, which gives it limited potential to act as preferential pathway for groundwater migration from the subject property. However, the sanitary sewer in 41<sup>st</sup> Street is located down-gradient of the former Boysen Paint Factory site (now owned by ONE Color) and groundwater analytical data in the vicinity of the sewer has shown elevated concentrations of mineral spirits. Therefore, this sewer could provide preferential migration of groundwater contamination from the former Boysen Paint site

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Alameda County Environmental Health Department  
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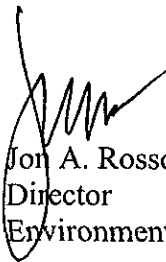
along the utility to the east and to the west and possibly to the sanitary sewers located in Adeline and Linden Streets.

In 1990, during the construction of the EBMUD interceptor, soil contamination was encountered in Adeline Street and removed as part of that project. Additional trench plugs were placed in that area. During the installation of monitoring well CW-2 in 2003, soil contamination was noted in the gravel zone at a depth of 8 feet. Furthermore, the now-excavated upper portions of the sand and gravel area (i.e. depths of 7 to 10 feet below surrounding ground surface) from the central portion of the subject property to the western boundary did show signs of elevated mineral spirits in the soil. As noted above, the contaminated soil on the subject property was removed as part of remedial activities in accordance with Alameda Health Care Services Agency requirements. This information suggests that the gravel zones or sanitary utilities may have historically acted as preferential pathways.

Groundwater within the sand and gravel areas is monitored in wells CW-2 and CW-1. Recent groundwater samples from these wells show no detectable concentration of mineral spirits following remediation of the subject property. Therefore, these sand and gravel zones no longer appear to be acting as preferential pathways for migration of contaminated groundwater originating at the subject property. However, sand and gravel zones, if present on or near the former Boysen Paint Factory property or in 41<sup>st</sup> Street, could act as preferential pathways.

We appreciate the opportunity to present this information. If you have any questions, please contact me at (925) 426-2676.

Sincerely,



Jon A. Rosso, P.E.  
Director  
Environmental Services

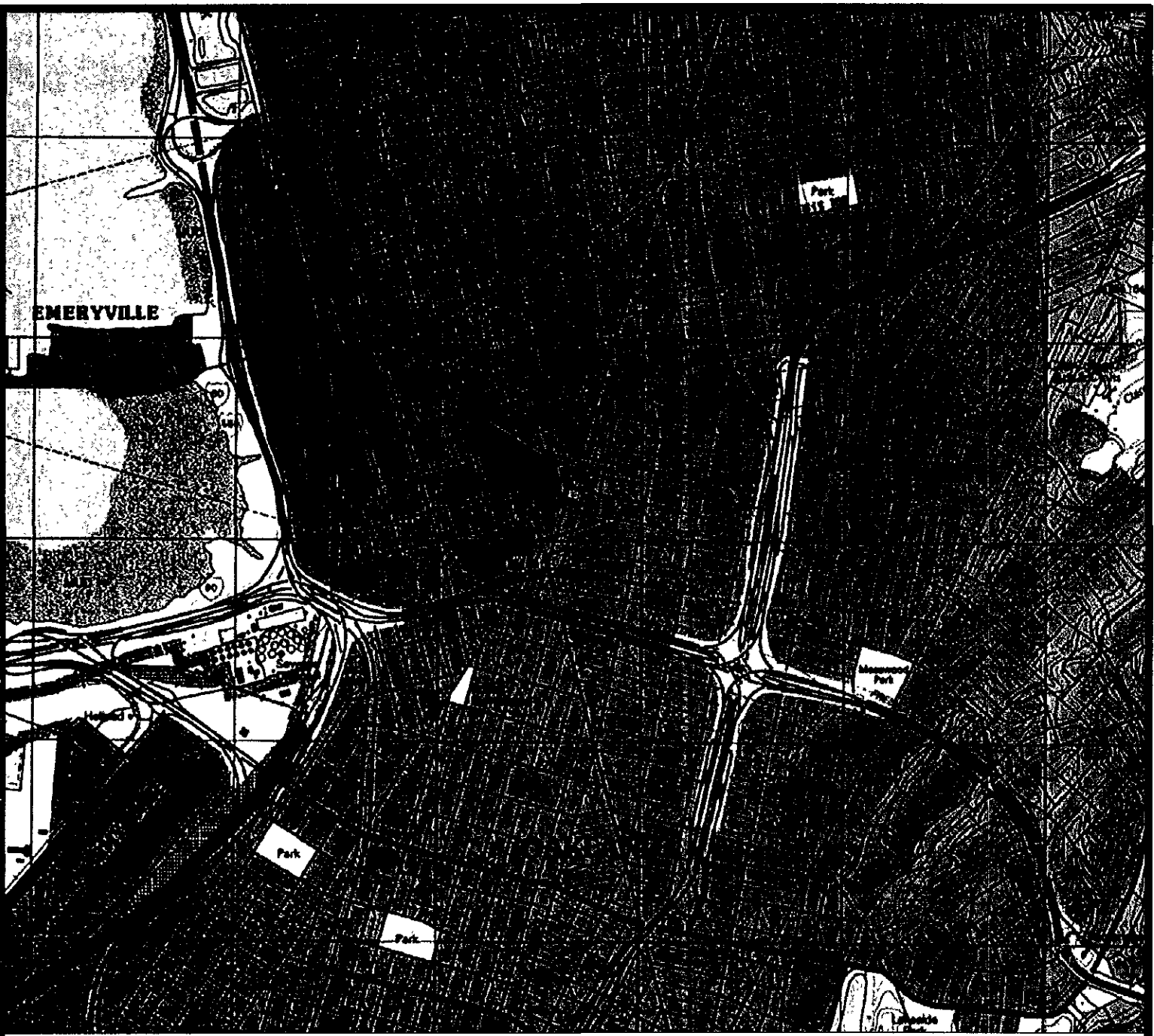
cc: Matt Oliver, Green City Lofts, LLC  
Martin Samuels, Green City Lofts, LLC

Attachments  
Figure 1, 2, & 3  
Attachment A

6920 Koll Center Parkway  
Suite 216  
Pleasanton, CA 94566  
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Fax 925.426.0106

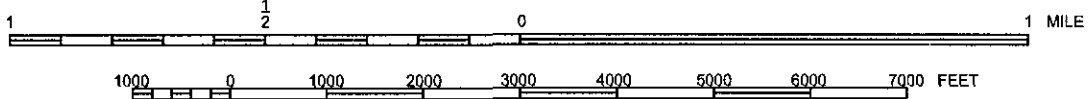


## FIGURES



Map Source: TOPO!© 2000 National Geographic Holdings

Note: Boundaries and Location Information is Approximate



Portion of the 7.5-Minute Series Oakland West, California  
 Quadrangle Topographic Map (Datum: NAD 27)  
 United States Department of the Interior  
 Geological Survey  
 1997



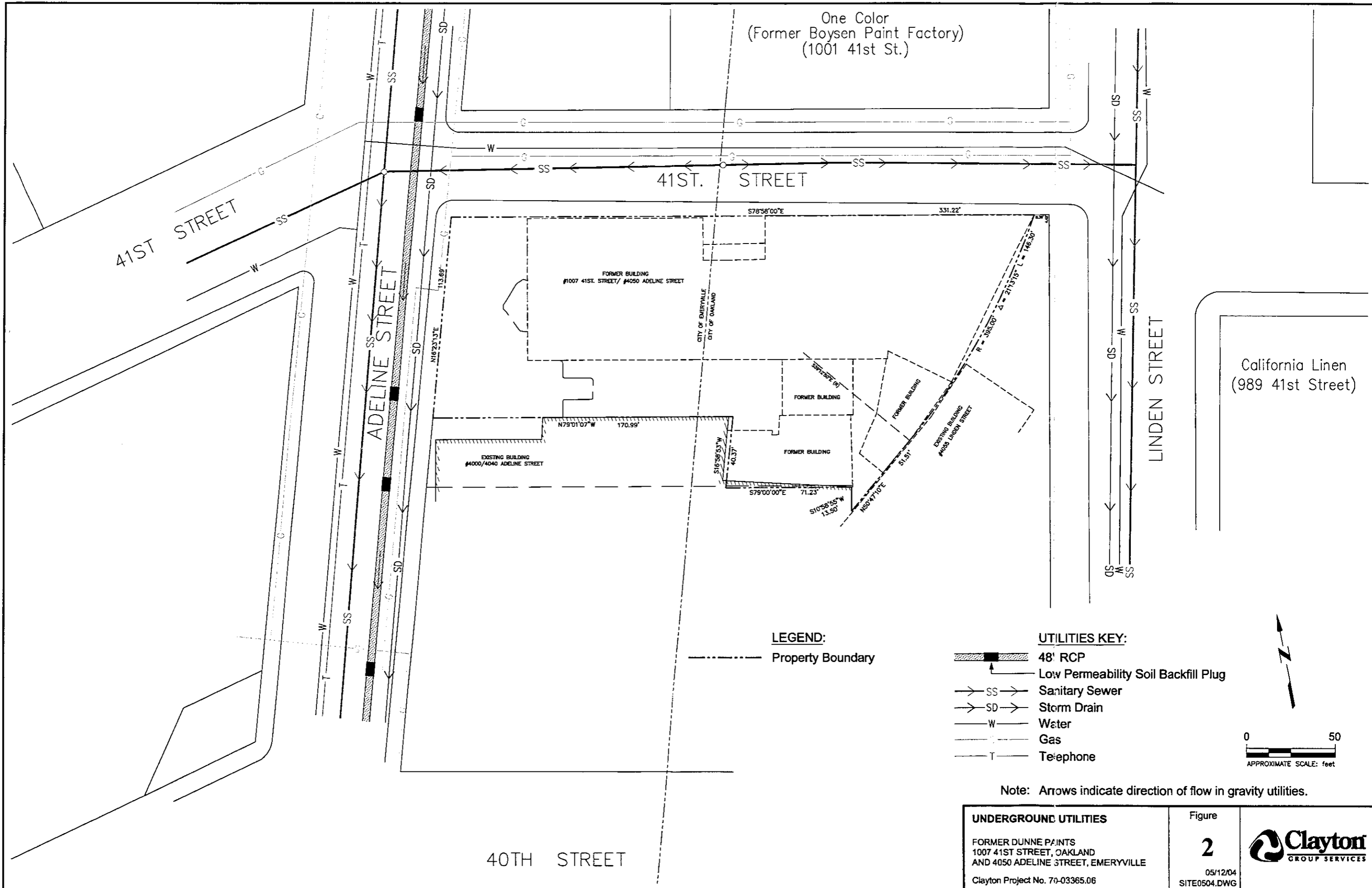
QUADRANGLE LOCATION


PROPERTY LOCATION MAP  
 1007 41st Street  
 Emeryville/Oakland, California and  
 4050 Adeline Street  
 Emeryville, California  
 Clayton Project No. 70-03365.06

Figure

1

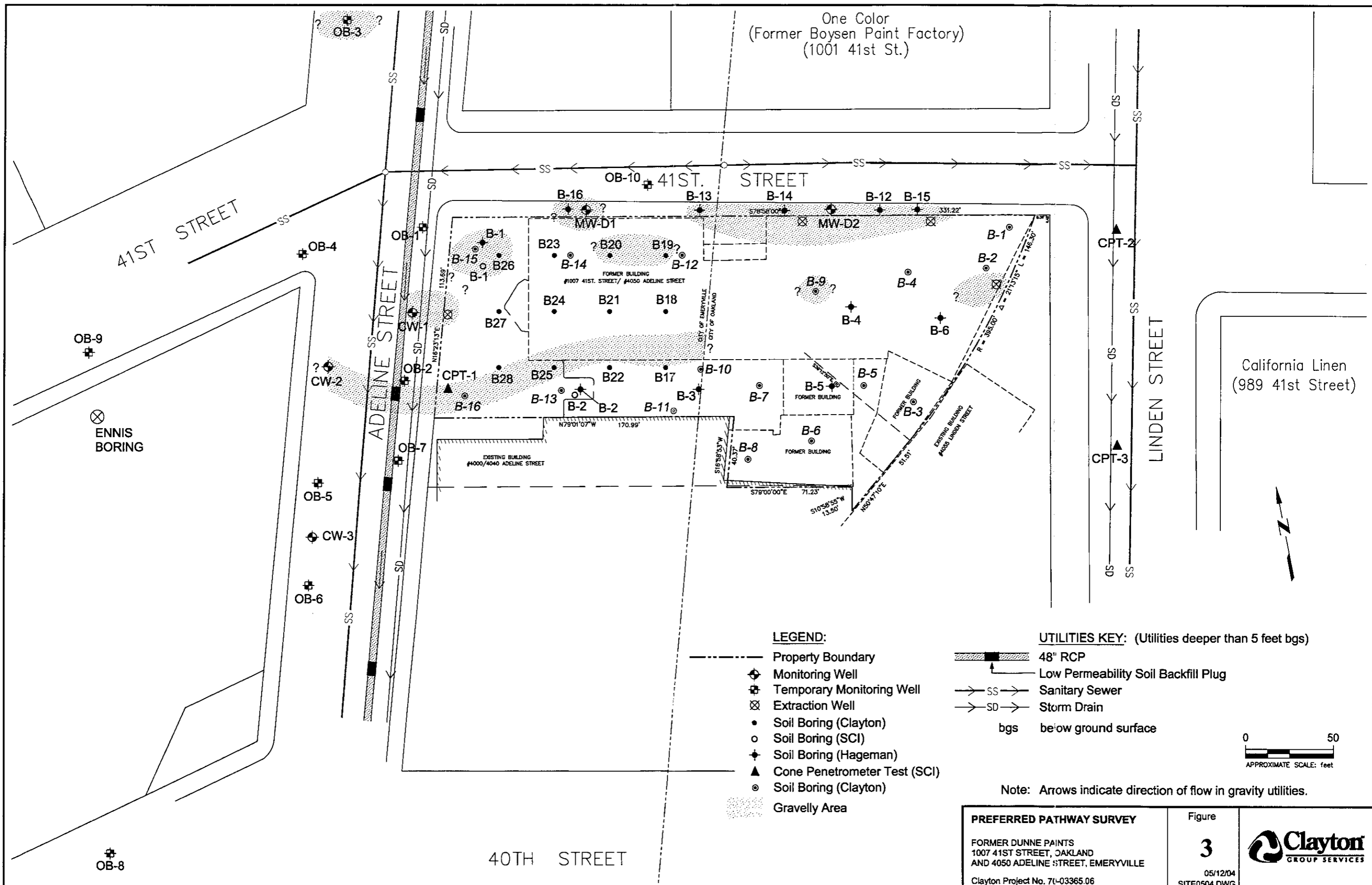




<p><b>UNDERGROUND UTILITIES</b></p> <p>FORMER DUNNE PAINTS 1007 41ST STREET, OAKLAND AND 4050 ADELINE STREET, EMERYVILLE</p> <p>Clayton Project No. 70-03365.06</p>	<p>Figure <b>2</b></p> <p>05/12/04 SITE0504.DWG</p>	
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1030 5/12/04  
1052-410 6/10/04



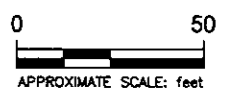
**LEGEND:**

- Property Boundary
- ⊕ Monitoring Well
- ⊕ Temporary Monitoring Well
- ⊗ Extraction Well
- Soil Boring (Clayton)
- Soil Boring (SCI)
- ◆ Soil Boring (Hageman)
- ▲ Cone Penetrometer Test (SCI)
- ⊙ Soil Boring (Clayton)
- ▨ Gravelly Area

**UTILITIES KEY: (Utilities deeper than 5 feet bgs)**

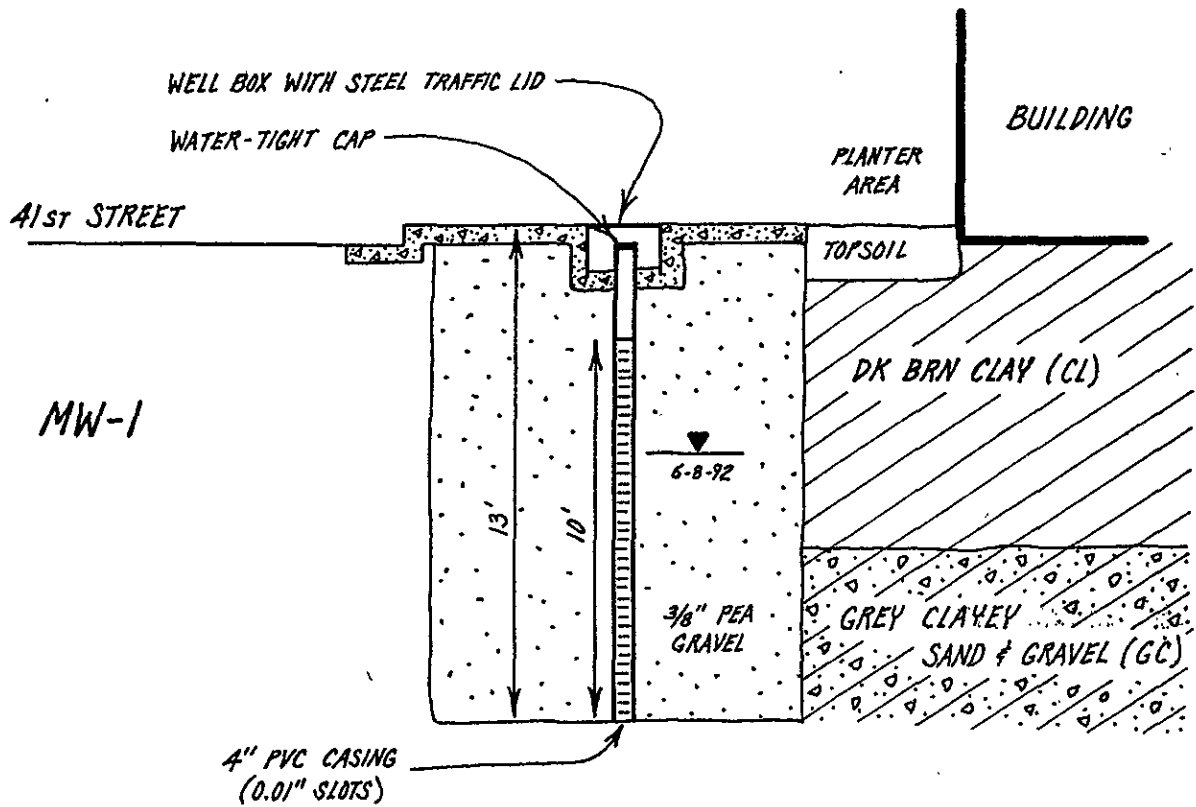
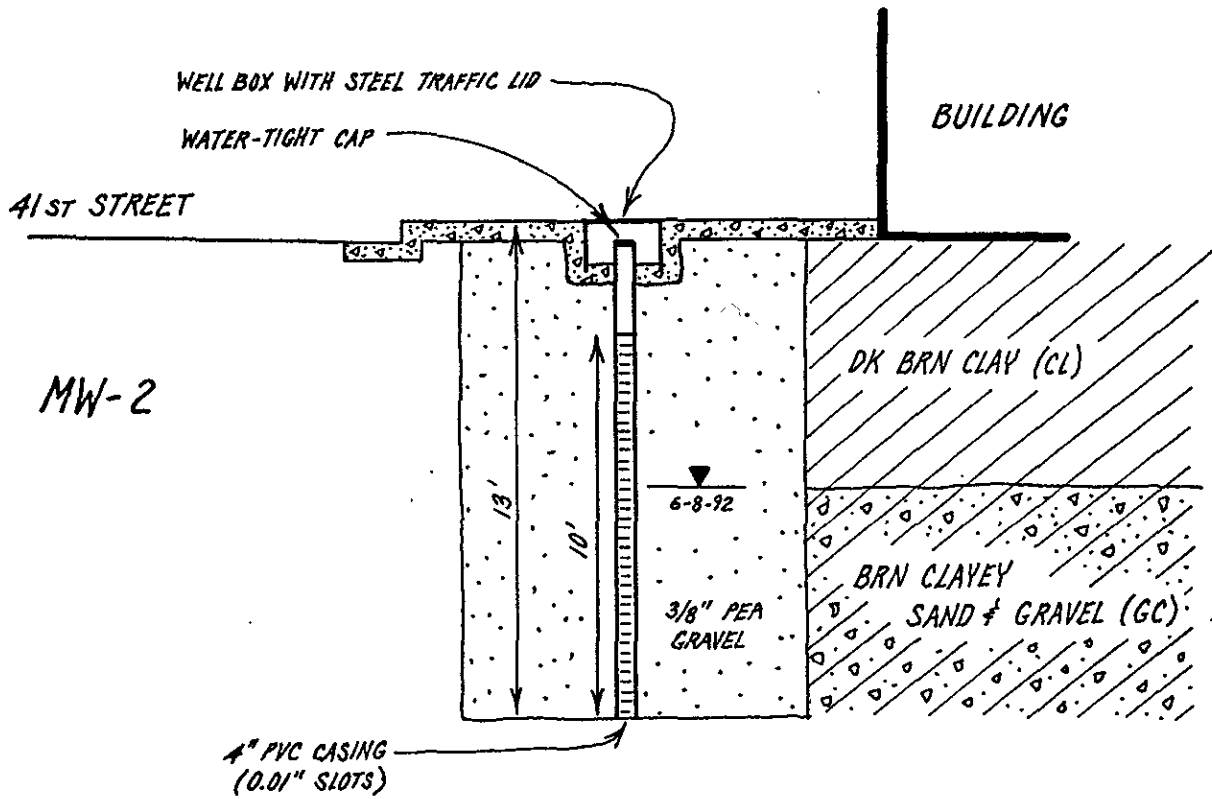
- ▬ 48" RCP
- ⬇ Low Permeability Soil Backfill Plug
- SS → Sanitary Sewer
- SD → Storm Drain
- bgs below ground surface

Note: Arrows indicate direction of flow in gravity utilities.



<p><b>PREFERRED PATHWAY SURVEY</b></p> <p>FORMER DUNNE PAINTS 1007 41ST STREET, OAKLAND AND 4050 ADELINE STREET, EMERYVILLE</p> <p>Clayton Project No. 7U-03365.06</p>	<p>Figure <b>3</b></p> <p>05/12/04 SITE0504.DWG</p>	
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**ATTACHMENT A**  
**LITHOLOGIC LOGS**



SCALE  
HORIZ: 1"=5'  
VERT: 1"=5'

FIGURE 1.  
Well Construction.

LOCATION OF BORING

PROJECT NAME & LOCATION FRANK W. DUNNE, 1007 41st, OAKLAND	
DRILLING METHOD: 4" SOLID STEM AUGER CME-45 DRILL RIG	BORING B-1
SAMPLING METHOD: 2" SPLIT BARREL SAMPLER WITH BRASS LINERS	SHT 1 of 1
WATER LEVEL	DRILLING
TIME	START TIME
DATE	FINISH TIME
CASING DEPTH	DATE
SCREEN	DATE

SEE SITE PLAN

SCALE: 1" =

inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	USCS
				0	
				1	
				2	
				3	
18	14	3/4/4	0855	4	
				5	
18	15	2/3/4	0910	7	
				8	
18	16	4/7/8	0920	9	
				10	
				11	
				12	
18	18	9/4/8	0930	14	
				15	
				16	
				17	
				18	
				19	
				20	

SURFACE CONDITIONS:

ASPHALT

BRN SAND & GRAVEL (FILL), SAND FINE TO MEDIUM,  
GRAVEL SUBANGULAR TO 1", GLASS FRAGMENTS

DK BRN CLAYEY SILT (ML), DRY,  
SLIGHTLY CRUMBLY, OCCASIONAL COARSE SAND,  
OCCASIONAL GRAVEL TO 1/4"

(NO ODOR)

BRN SILTY CLAY (CL), SLIGHTLY MOIST, SOFT,  
MODERATELY CRUMBLY, VARIEGATED COLOR: RED BRN  
& DK BRN

(NO ODOR)

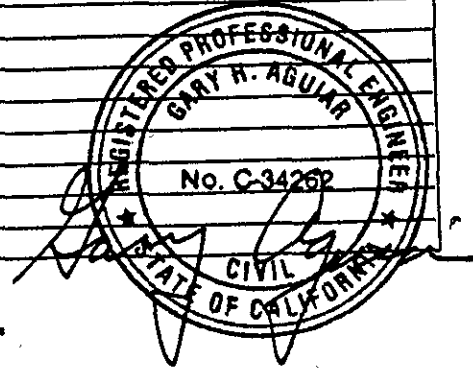
DK BRN CLAY (CL), VERY DARK COLOR,  
SLIGHTLY STIFF, ROOT/PLANT FIBERS

(NO ODOR)

GREY SANDY & GRAVELLY CLAY (CL), SATURATED,  
HIGH PERCENTAGE SAND & GRAVEL,  
MODERATELY STIFF, GRAVEL SUB-ANGULAR TO 1"

(MINERAL SPIRITS ODOR)

TOTAL DEPTH = 14 1/2' BLS



HAGEMAN - AGUIAR, INC.

ION OF BORING

PROJECT NAME & LOCATION

FRANK W. DUNNE, 1007 41ST, OAKLAND

DRILLING METHOD:

4" SOLID STEM AUGER  
CME-45 DRILL RIG

BORING

B-2

SHT

1 of 1

SAMPLING METHOD:

2" SPLIT BARREL SAMPLER  
WITH BRASS LINERS

DRILLING

START TIME

0945

FINISH TIME

1030

WATER LEVEL

TIME

DATE

CASING DEPTH

SCREEN

DATE

6/10/92

SEE SITE PLAN

SCALE: 1" =

inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	USCS
				0	
				1	
				2	
				3	
18	18	4/6/7	1000	4	
				5	
				6	
18	18	2/2/3	1008	7	
				8	
18	16	5/7/9	1015	9	
				10	
				11	
				12	
				13	
18	18	8/9/11	1030	14	
				15	
				16	
				17	
				18	
				19	
				20	

SURFACE CONDITIONS:

ASPHALT  
BASE ROCK  
DK BRN CLAYEY SILT (ML), SLIGHTLY MOIST,  
SLIGHTLY CRUMBLY  
(NO ODOR)

SAME, VARIEGATED COLOR: BRN AND RUST COLOR,  
SLIGHTLY CLAYEY  
(NO ODOR)

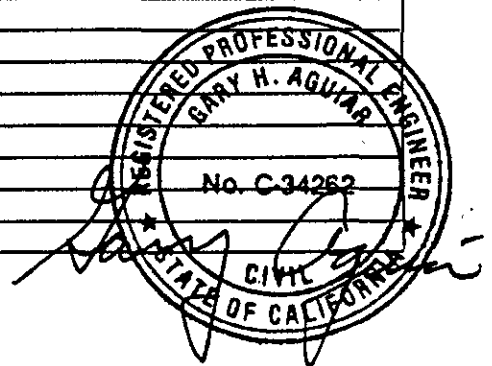
DK BRN CLAY (CL), SLIGHTLY MOIST, VERY DARK,  
SLIGHTLY STIFF, BRN PLANT FIBERS  
(NO ODOR)

GREY CLAY (CL), MODERATE PLASTICITY, STIFF  
(SLIGHT PETROLEUM ODOR)

GREY CLAY (CL), SATURATED, SLIGHTLY SOFT,  
INTERBEDDED WITH THIN SAND & GRAVEL  
LAYERS

(MINERAL SPIRITS ODOR)

TOTAL DEPTH = 14 1/2' BLS



HAGEMAN - AGUIAR, INC.

CATION OF BORING

PROJECT NAME & LOCATION

FRANK W. DUNNE, 1007 41ST, OAKLAND

DRILLING METHOD:

4" SOLID STEM AUGER

CME-45 DRILL RIG

SAMPLING METHOD:

2" SPLIT BARREL SAMPLER

WITH BRASS LINERS

BORING

B-3

SHT

1 of 1

DRILLING

START FINISH

TIME TIME

1150 1220

DATE DATE

6/10/92 6/10/92

SEE SITE PLAN

SCALE: 1" =

CASING DEPTH

SCREEN

inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH in feet	USCS
				0	
				1	
				2	
				3	
18	16	3/3/4	1155	4	
				5	
				6	
18	15	3/4/4	1200	7	
				8	
18	18	3/4/6	1210	9	
				10	
				11	
				12	
				13	
				14	
				15	
				16	
				17	
				18	
				19	
				20	

SURFACE CONDITIONS:

CONCRETE (6")  
RED BASEROCK

DK GREY CLAYEY SILT (ML), NEARLY DRY,  
SLIGHTLY CRUMBLY, VERY DARK COLOR (NEARLY BLACK),  
LOW TO MODERATE CLAY CONTENT

(NO ODOR)

SAME, SOFTER, SLIGHTLY LIGHTER COLOR

(SLIGHT PETROLEUM ODOR)

DK GREY CLAY (CL), MODERATE PLASTICITY,  
SLIGHTLY STIFF, DENSE

(NO ODOR)

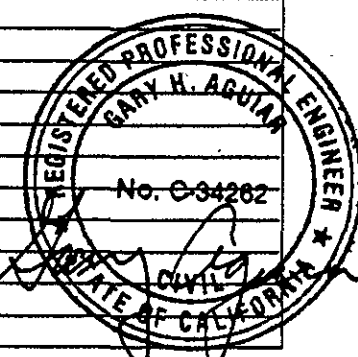
GREY BRN SILTY CLAY (CL), SLIGHTLY MOIST,  
STIFF, VARIEGATED COLOR: LT BRN & LT GREY

(NO ODOR)

SAME, SLIGHTLY MOIST, SOFT

(NO ODOR)

TOTAL DEPTH = 19' BLS



ON OF BORING

PROJECT NAME & LOCATION

FRANK W. DUNNE, 1007 41ST, OAKLAND

DRILLING METHOD:

4" SOLID STEM AUGER

BORING

B-4

CME-45 DRILL RIG

SHT

1 of 1

SAMPLING METHOD:

2" SPLIT BARREL SAMPLER

DRILLING

WITH BRASS LINERS

START

FINISH

WATER LEVEL

TIME

TIME

TIME

1300

1330

DATE

DATE

DATE

CASING DEPTH

SCREEN

9/10/92

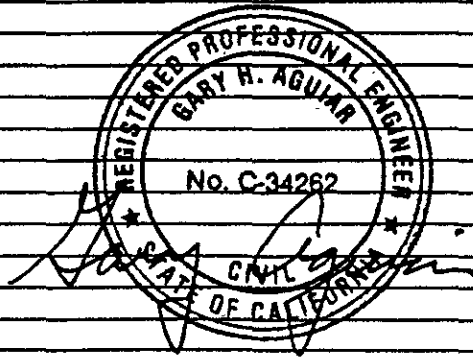
9/10/92

SEE SITE PLAN

SCALE: 1" =

inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	USCS	SURFACE CONDITIONS:
				0		CONCRETE
				1		
				2		DK BRN CLAYEY SILT (ML), NEARLY DRY, VERY DARK COLOR, CRUMBLY
				3		(NO ODOR)
18	15	4/4/5	1310	4		
				5		
				6		
18	16	3/4/4	1320	7		GREY CLAYEY SILT (ML), SOFT, MODERATELY CLAYEY, SLIGHTLY CRUMBLY
				8		(NO ODOR)
18		4/8/10 LOST SAMPLE	1325	9		DK GREY SILTY CLAY (CL), SLIGHTLY MOIST, DENSE, STIFF, NEARLY BLACK COLOR
				10		
18	18	8/10/15	1330	1		GREY SILTY CLAY (CL), SLIGHTLY MOIST, OCCASIONAL COARSE SAND, STIFF
				2		(SLIGHT PETROLEUM ODOR)
				3		
				4		
				5		
				6		
				7		
				8		
				9		
				0		

TOTAL DEPTH = 11 1/2' BLS



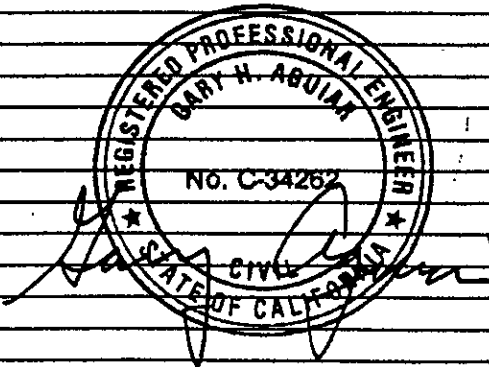
HAGEMAN - AGUIAR, INC.

PROJECT NAME & LOCATION <b>FRANK W. DUNNE, 1007 41ST, OAKLAND</b>			
DRILLING METHOD: <b>4" HAND SAMPLER</b>		BORING <b>B-5</b>	
SAMPLING METHOD: <b>2" SPLIT BARREL SAMPLER WITH BRASS LINERS</b>		SHT <b>1 of 1</b>	
WATER LEVEL		START TIME	FINISH TIME
TIME		<b>1330</b>	<b>1405</b>
DATE		DATE	DATE
<b>6/10/92</b>		<b>6/10/92</b>	
CASING DEPTH		SCREEN	

SEE SITE PLAN

SCALE: 1" =

inches DRIVEN	inches RECOVER	BLOW COUNT per 6 inches	TIME	DEPTH In feet	USCS	SURFACE CONDITIONS:
				0		CONCRETE
				1		
				2		DK BRN CLAYEY SILT (ML), DRY, DENSE
				3		(NO ODOR)
6	6		1355	4		
				5		
				6		
				7		GREY CLAYEY SILT (ML), VERY MOIST, LOW CLAY CONTENT
T 6	6		1405	8		(SLIGHT PETROLEUM ODOR)
				9		
				10		TOTAL DEPTH = 8' BLS
				1		
				2		
				3		
				4		
				5		
				6		
				7		
				8		
				9		
				0		





LOCATION OF BORING

PROJECT NAME & LOCATION

FRANK W. DUNNE, 1007 41ST, OAKLAND

DRILLING METHOD:

4" HAND AUGER

BORING

B-6

SHT

1 of 1

SAMPLING METHOD:

2" SPLIT BARREL SAMPLER  
WITH BRASS LINERS

DRILLING

START

FINISH

WATER LEVEL

TIME

DATE

CASING DEPTH

SCREEN

TIME

TIME

1405

1420

DATE

DATE

6/10/92

6/10/92

SEE SITE PLAN

SCALE: 1" =

SURFACE CONDITIONS:

CONCRETE

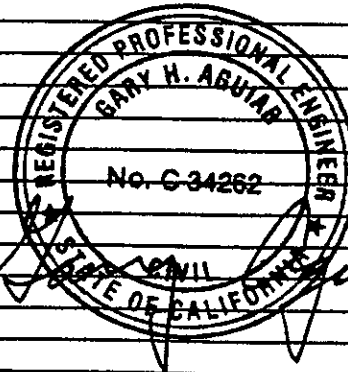
DK GREY CLAYEY SILT, SLIGHTLY MOIST,  
NEARLY BLACK COLOR

(NO ODOR)

SAME, MOIST

(MINERAL SPIRITS ODOR)

TOTAL DEPTH = 7' BLS

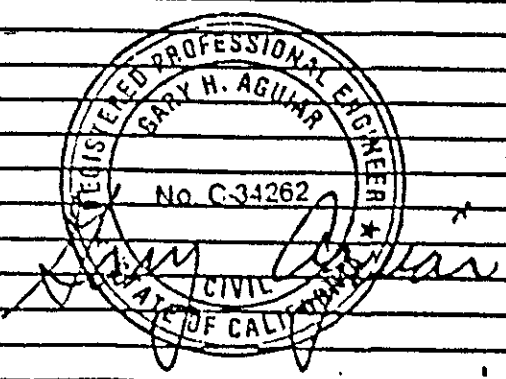


HAGEMAN - AGUIAR, INC.

SEE SITE MAP

DRILLING METHOD: 4" SOLID STEEL AUGER				BORING NO. #13	
SAMPLING METHOD: SPLIT BARREL SAMPLER WITH 2 BRASS LINERS (6")				SHEET 1 of 1	
WATER LEVEL				START TIME 1212	FINISH TIME 1330
TIME				DATE 4/26/88	DATE 4/12/88
CASING DEPTH				DRILLING	

DATUM		ELEVATION		SURFACE CONDITIONS			
SAMPLER TYPE	INCHES RECOVERED	DEPTH OF CASING	SAMPLE DEPTH	BLOWS/FT. SAMPLER	TIME	DEPTH IN FEET	SOIL GRAPH
						0	CONCRETE
						1	
						2	DK BRN CLAY (CL), SOFT, MOIST
						3	
						4	
						5	
2" PLT	12/12			5/6	1315	6	DK GREY CLAY (CL), SLIGHTLY MOIST, STIFF, VERY DENSE, BLACK STREAKS (BAY MUD ODOR)
						7	
						8	
2" SPLIT	12/12			11/4	1330	10	DK GREY CLAYEY GRAVEL (GC), LOOSE GRAVEL ANGULAR TO 1/2", SIGNIFICANT FINE TO MEDIUM SAND, (SLIGHT PRODUCT ODOR)
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	



TD = 11' BLS

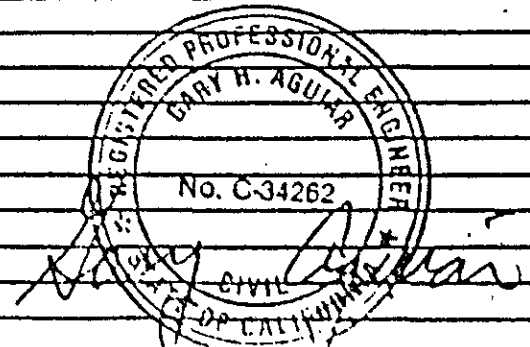
DUNNE PAINTS | EMERYVILLE

SEE SITE MAP

DRILLING METHOD: 4" SOLID STEM AUGER				BORING NO. #14	
SAMPLING METHOD: SPLIT BARREL SAMPLER WITH 2 BRASS LINERS (6")				SHEET 1 of 1	
WATER LEVEL				START TIME 1340	FINISH TIME 1430
TIME				DATE 4/26/88	DATE 4/24/88
CASING DEPTH				DRILLING	

DATUM		ELEVATION		SURFACE CONDITIONS:			
SAMPLER TYPE	INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE DEPTH	BLOWS/FT. SAMPLER	TIME	DEPTH IN FEET	SOIL GRAPH
						0	CONCRETE
						1	
						2	
						3	
						4	
						5	
2" SPLIT	12/12			4/6	1409	6	GREY CLAY (CL), SLIGHTLY MOIST, HIGH PLASTICITY, BLACK STREAKS, OCCASIONAL COARSE SAND, GRAVEL TO 1/2" (NO ODOR)
						7	
						8	
						9	
2" SPLIT	12/12			16/16	1430	10	GREY CLAYEY GRAVEL (GC), SLIGHTLY LOOSE, SAND FINE TO MEDIUM, GRAVEL ANGULAR TO 1" (NO ODOR)
						11	
						12	
						13	
						14	
						15	
						16	
						17	
						18	
						19	
						20	

TD = 11' BLS



DATE \_\_\_\_\_ CHK'D BY \_\_\_\_\_

DUNNE PAINTS EMERYVILLE

SEE SITE MAP

DRILLING METHOD: 4" SOLID STEM AUGER				BORING NO. #15	
SAMPLING METHOD: SPLIT BARREL SAMPLER WITH 2 BRASS LINERS (6")				SHEET 1 of 1	
WATER LEVEL				START TIME 1440	FINISH TIME 1535
TIME				DATE 4/26/88	DATE 4/26/88
DATE				CASING DEPTH	

DATUM	ELEVATION	SAMPLER TYPE	INCHES OVER RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE BEGN	BLOWS/FT. SAMPLER	TIME	DEPTH IN FEET	SOIL GRAPH
								0	
								1	
								2	
								3	
								4	
								5	
2"		SPLIT	12/12			5/12	1525	6	▼
								7	
2"		SPLIT	12/12			10/10	1535	10	□
								11	
								12	
								13	
								14	
								15	
								16	
								17	
								18	
								19	
								20	

SURFACE CONDITIONS:

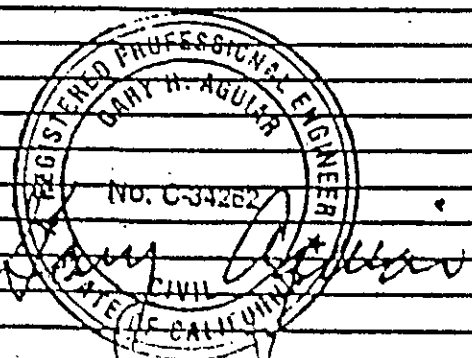
CONCRETE

DK GREY CLAY (CL), NEARLY DRY, STIFF, NEARLY BLACK, ANGULAR GRAVEL TO 3/8", VERY GRAVELLY

(NO ODOR)

BRN CLAYEY GRAVEL (GC), SATURATED, SLIGHTLY LOOSE, SAND FINE TO MEDIUM, GRAVEL ANGULAR TO 1"

TD = 11' BLS



SEE SITE MAP

DUNNE PAINTS EMERYVILLE

DRILLING METHOD: 4" SOLID STEM AUGERS				BORING NO. #16	
SAMPLING METHOD: SPLIT BARREL SAMPLER WITH 2 BRASS LINERS (6")				SHEET 1 of 1	
WATER LEVEL				START TIME 1547	FINISH TIME 1615
CASING DEPTH				DATE 4/26/88	DATE 4/26/88

DATUM \_\_\_\_\_ ELEVATION \_\_\_\_\_

SAMPLER TYPE	MOHRS OR MOHR RECORDERS	DEPTH OF CASING	SAMPLER NO.	BLOWS/FT. SAMPLER	TIME	DEPTH IN FEET	SOIL GRAPH
/	/	/	/	/	/	0	
/	/	/	/	/	/	1	
/	/	/	/	/	/	2	
/	/	/	/	/	/	3	
/	/	/	/	/	/	4	
/	/	/	/	/	/	5	
4" SPLIT	12/12	/	/	3/6	1680	6	
/	/	/	/	/	/	7	
/	/	/	/	/	/	8	
/	/	/	/	/	/	9	
4" SPLIT	12/12	/	/	9/12	1615	10	
/	/	/	/	/	/	11	
/	/	/	/	/	/	12	
/	/	/	/	/	/	13	
/	/	/	/	/	/	14	
/	/	/	/	/	/	15	
/	/	/	/	/	/	16	
/	/	/	/	/	/	17	
/	/	/	/	/	/	18	
/	/	/	/	/	/	19	
/	/	/	/	/	/	20	

SURFACE CONDITIONS:

CONCRETE

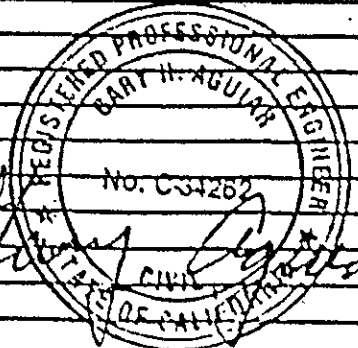
DK GREY CLAY (CL), NEARLY DRY, NEARLY BLACK, HARD, ANGULAR GRAVELS TO 1/2"

(NO ODOR)

GREY CLAYEY SAND (SC), STIFF, OCCASIONAL GRAVEL TO 1/2"

(NO ODOR)

TD = 11' BLS



LOCATION OF BORING

SEE SITE MAP

JOB NO.		DUNNE PAINTS		EMERYVILLE	
DRILLING METHOD:				BORING NO.	
4" SOLID STEM AUGER				#12	
CME-45 DRILL RIG				SHEET	
SAMPLING METHOD:				1 of 1	
SPLIT BARREL SAMPLER				DRILLING	
WITH 2 BRASS TUBES (6")				START TIME	FINISH TIME
WATER LEVEL				1250	1335
TIME				DATE	DATE
DATE				1/13/88	1/13/88
CASING DEPTH					

DATUM \_\_\_\_\_ ELEVATION \_\_\_\_\_

SAMPLER TYPE	INCHES SAVER INCHES RECOVERED	DEPTH OF CASING	SAMPLE NO. SAMPLE DEPTH	BLOWS/FT. SAMPLER	DEPTH IN FEET	SOIL GRAPH
					0	
					1	
					2	
					3	
					4	
					5	
2" SPLIT	18/18		2 1/2		6	1320
					7	
					8	
					9	
2" SPLIT	18/18				10	1335
					11	
					12	
					13	
					14	
					15	
					16	
					17	
					18	
					19	
					20	

SURFACE CONDITIONS:

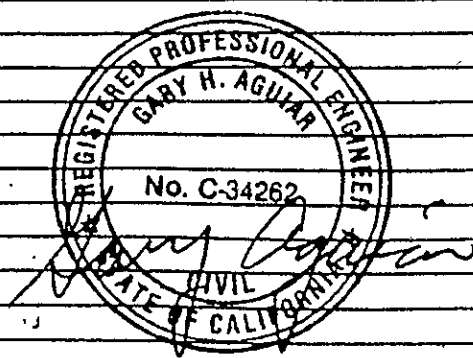
CONCRETE SIDEWALK (~2")

DK GREY SANDY & GRAVELLY CLAY (CL), SATURATED, POCKETS OF COARSE SAND, ANGULAR GRAVEL TO 1" (STRONG SOLVENT ODOR)

BRN CLAYEY SAND & GRAVEL (GC), SATURATED, LOOSE, SAND FINE TO COARSE, ANGULAR GRAVEL TO 1/2" (NO ODOR)

TOTAL DEPTH = 11.5' BLS

CHK'D BY \_\_\_\_\_ DATE \_\_\_\_\_




Project Name & Location: Green City Lofts 4050 Adeline St. Emeryville and Oakland, California		Ground Surface Elevation: 46.4' feet	
Drilling Coordinates: not surveyed		Elevation Datum: City of Oakland	
Drilling Company & Driller: Bay Area Exploration, Jeff		Start: Date 11/17/00	Time 08:25
Rig Type & Drilling Method: CME 75 / Hollow Stem Auger		Finish: Date 11/17/00	Time 11:45
Sampler Type(s): A) Modified California (3" O.D., 2.5" I.D.) B) SPT (2" O.D., 1.4" I.D.)		Drilling Fluid:	Hole Diameter: 8"
Sampling Method(s): A) 140 lb automatically tripped hammer w/30" drop B) 140 lb automatically tripped hammer w/30" drop		Logged By: NTB	Level During Drilling
		Backfill Method: Grout	Date: 11/17/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	Sample Interval	Graphic Log	SOIL DESCRIPTIONS		LABORATORY DATA		
						GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)	Moisture Content (%)	Dry Density (pcf)	Other	
0						ASPHALT - 8 inches thick BASE ROCK - 4 INCHES THICK SILTY CLAY with SAND (CL-ML) brown, medium stiff to stiff, moist (fill)				
3	A	3								
5	B	7	12			FAT CLAY with SAND (CH) dark brown, medium stiff, moist				
7	A	3								
8	A	4				LEAN CLAY with SAND (CL) olive-green, very stiff, moist, with gravel, gasoline odor	17.8	110	LL = 25, PI = 9	
11		11								
20		20								
10	B	4				SILTY, CLAYEY SAND (SC-SM) greenish gray with reddish brown staining, loose, moist				
11		4								
12		5				LEAN CLAY with SILT and SAND (CL) yellowish brown, medium stiff to stiff, moist				
15	A	4								
16	A	6				CLAYEY SILTY SAND (SC-SM) yellowish brown, loose to medium dense, moist	24.5	102	TXUU = 1216 (994)	
17	A	4				Increasing sand and gravel content				
18		8								
19		13								
20	A	8				POORLY GRADED GRAVEL with CLAY and SAND (GP-GC) reddish brown, medium dense, wet, sub-rounded gravel (size up to 1"), with sandstone, serpentine and chert fragments.				
21		11								
22		25								
25	A	11				Increasing clay content				
26		14								
27		22								
30										

Continued

LOG OF BORING 1316-001.GPJ GEO-ENV.GDT 12/22/00

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	Green City Lofts Emeryville and Oakland, California		BORING
	JOB NUMBER 1316.001	DATE 12/00	<b>B-1</b>

Project Name & Location: Green City Lofts 4050 Adeline St. Emeryville and Oakland, California	Start Date: 11/17/00 Logged By: NTB
-----------------------------------------------------------------------------------------------------	----------------------------------------

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	Sample Interval	Graphic Log	SOIL DESCRIPTIONS		LABORATORY DATA		
						GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)	Moisture Content (%)	Dry Density (pcf)	Other	
30	A	3 5 5	10		[Diagonal Hatching]	SANDY LEAN CLAY (CL) reddish brown, medium stiff, wet				
					[Diagonal Hatching]	gravel layers				
35	A	4 4 7	11		[Diagonal Hatching]		22	105	TXUU = 907 (1699)	
40	A	7 10 18	28		[Diagonal Hatching]	SANDY LEAN CLAY (CL) mottled olive-gray, reddish brown, very stiff, wet				
					[Diagonal Hatching]	POORLY GRADED GRAVEL with SAND (GP) reddish brown, medium dense, wet, sub-rounded gravel (size ranging from 1/4" to 2"), with sandstone, feldspare and chert fragments				
45	A	4 7 20	27		[Diagonal Hatching]					
50	A	19 22 14	36		[Diagonal Hatching]	LEAN CLAY with SAND and GRAVEL (CL) yellowish brown, very stiff, wet, with fine gravel				
55										
60										
65										

LOG OF BORING 1316-001.GPJ GEO-ENV.GDT 12/22/00


	Subsurface Consultants, Inc. Geotechnical & Environmental Engineers	Green City Lofts Emeryville and Oakland, California	BORING <b>B-1</b>
			JOB NUMBER: 1316.001      DATE: 12/00



Project Name & Location: Green City Lofts 4050 Adeline St. Emeryville and Oakland, California		Ground Surface Elevation: 50.7' feet	
Drilling Coordinates: not surveyed		Elevation Datum: City of Oakland	
Drilling Company & Driller: Bay Area Exploration, Jeff		Start: Date 11/17/00	Time 00:00
Rig Type & Drilling Method: CME 75 / Hollow Stem Auger		Finish: Date 11/17/00	Time 00:00
Sampler Type(s): A) Modified California (3" O.D., 2.5" I.D.) B) SPT (2" O.D., 1.4" I.D.)		Drilling Fluid:	Hole Diameter: 8"
Sampling Method(s): A) 140 lb automatically tripped hammer w/30" drop B) 140 lb automatically tripped hammer w/30" drop		Logged By: NTB	Level During Drilling #
		Backfill Method: Grout	Date: 11/17/00

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	Sample Interval	Graphic Log	SOIL DESCRIPTIONS		LABORATORY DATA		
						GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)	Moisture Content (%)	Dry Density (pcf)	Other	
0						CONCRETE - 8-inch thick slab				
0-10	A	4	10			SILTY CLAY with SAND (CL-ML) black, medium stiff, moist, with trace of gravels and roots, slight hydrocarbon odor (fill)				
10-15	B	2	5			LEAN CLAY with SAND (CL) black, medium stiff to very stiff, moist, slight hydrocarbon odor				
15-20	A	4	11				26	92	LL = 48, PI = 26 TXUU = 989 (504)	
20-25	A	5	21							
25-30	B	4	18				21.3	105	TXUU = 2205 (806)	
30-35	A	9	32			LEAN CLAY with SAND (CL) mottled yellowish brown, olive-gray, and reddish brown, very stiff, moist, strong hydrocarbon odor	17.4	112	TXUU = 4450 (979)	
35-40	A	9	28			has little to no hydrocarbon odor at 21 feet				
40-45	A	5	22							

LOG OF BORING 1316-001.GPJ GEO-ENV./GDT 12/22/00

 <b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	Green City Lofts Emeryville and Oakland, California		BORING <b>B-2</b>
	JOB NUMBER 1316.001	DATE 12/00	

<b>Project Name &amp; Location:</b> Green City Lofts 4050 Adeline St. Emeryville and Oakland, California	<b>Start Date:</b> 11/17/00 <hr/> <b>Logged By:</b> NTB
----------------------------------------------------------------------------------------------------------------	------------------------------------------------------------

Depth (feet)	Sampler Type	Blows/6 inches of Pressure	Blows/12 inches	Sample Interval	Graphic Log	SOIL DESCRIPTIONS		LABORATORY DATA		
						GROUP NAME (GROUP SYMBOL) color, consistency/density, moisture condition, other descriptions (Local Name or Material Type)	Moisture Content (%)	Dry Density (pcf)	Other	
30	A	8 11 18	27				23.5	104.5	LI = 42, PI = 24 TXUU = 2550 (1570)	
35	A	5 6 8	12			<b>LEAN CLAY with SAND and GRAVEL (CL)</b> reddish brown, medium stiff to stiff, wet, with sub-rounded gravel				
40	A	4 7 10	17			<b>LEAN CLAY with SAND (CL)</b> reddish brown, very stiff, moist	22	106.7	TXUU = 1993 (1944)	
45						<b>CLAYEY SAND (SC)</b> mottled reddish brown, olive-gray, medium dense to dense, wet				
50	A	9 28 23	49			<b>POORLY GRADED GRAVEL with CLAY and SAND (GP-GC)</b> reddish brown, medium dense, moist, with sub-rounded gravel (sizes up to 1")				
55										
60										
65										

LOG OF BORING: 1316-001.GPJ GEO-ENV.GDT 12/22/00

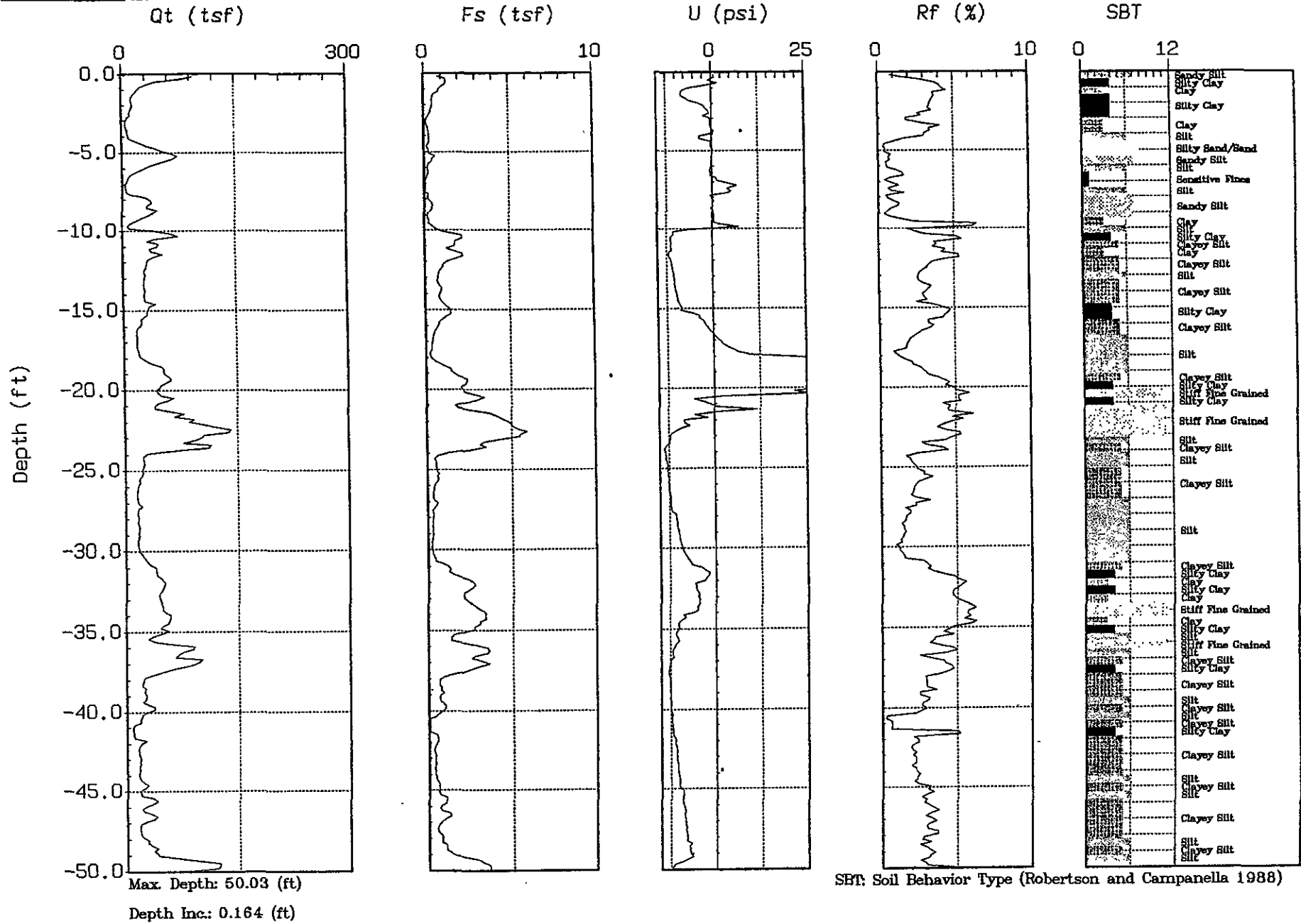
	<b>Subsurface Consultants, Inc.</b> Geotechnical & Environmental Engineers	Green City Lofts Emeryville and Oakland, California	BORING
	JOB NUMBER 1316.001	DATE 12/00	B-2



# Subsurface

Site : Green City Lofts  
Location : CPT-01

Engineer: R. Barllett  
Date : 11:29:00 14:32

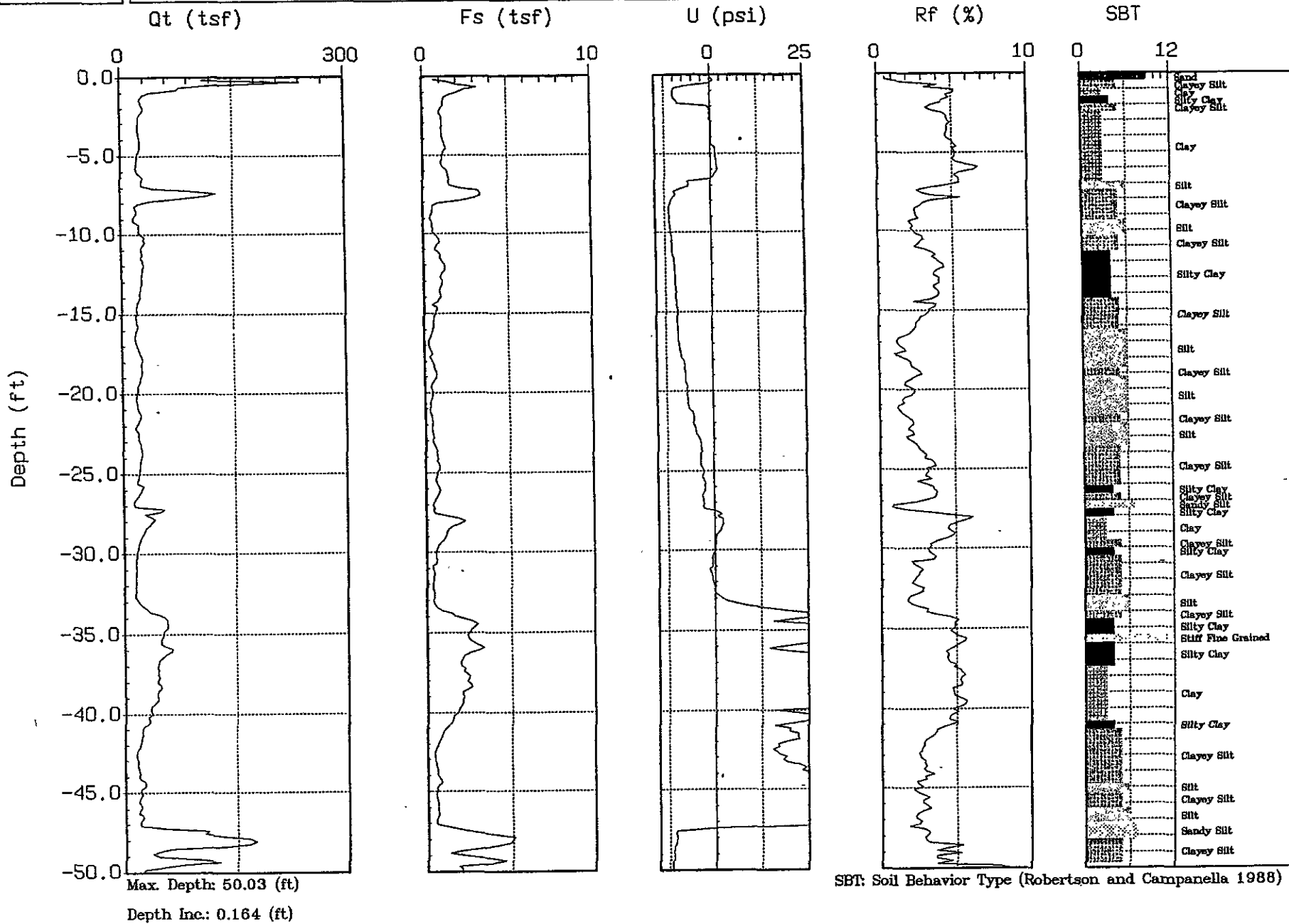




# Subsurface

Site : Green City Lofts  
Location : CPT-02

Engineer: R. Barlett  
Date : 11:29:00 17:04

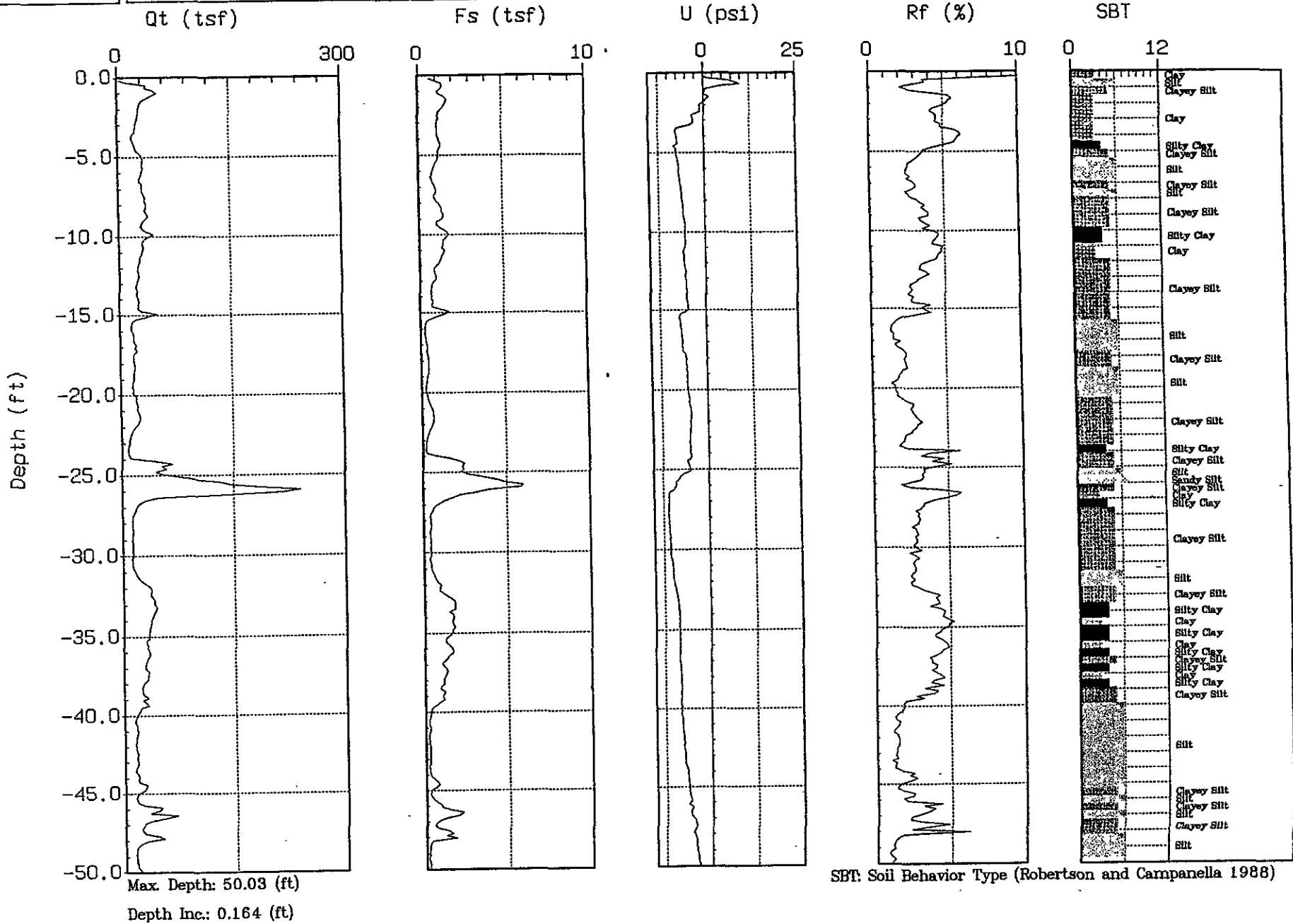




# Subsurface

Site : Green City Lofts  
Location : CPT-03

Engineer: R. Barillett  
Date : 11:29:00 17:39



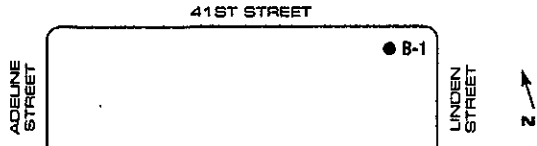


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-1**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level			DESCRIPTION	
						Time				
						Date				
				CT	XXXXXX				CONCRETE	
		1	X	CL					CLAY, OLIVE GRAY, DRY, SOME ROOTLETS, NO ODOR	
	0.0	2								
		3								
	0.0	4								SAMPLE NOT RECOVERED
		5	X	CL					CLAY, BLACK, DRY, NO ODOR	
	1.4	6								
		7								
	0.0	8								GREEN, DRY, PETROLEUM ODOR
		9								
	3.1	10								
		11	X						REFUSAL AT 11 FT. TOTAL DEPTH OF BORING = 11 FT.	
		12								
		13							No Groundwater Encountered	
		14								
		15								
		16								
		17								
		18								



# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

BORING NO. **B-2**  
 Sheet 1 of 1

Field location of boring:  
 41ST STREET



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION
						Time				
						Date				
				CT	XXXXXX	CONCRETE				
48.6		1		CL		CLAY, BLACK, DRY, PETROLEUM ODOR				
		2								
58.2		3	X							
		4								
24.2		5	X							
		6								
101.4		7								
		8								
25.1		9								
		10								
29.2		11				GREEN, DRY, STRONG PETROLEUM ODOR				
		12								
		13								
151.6		14								
		15				GRAVELLY				
		16	X							
						TOTAL DEPTH OF BORING = 16 FT.				
						No Groundwater Encountered				
		17								
		18								





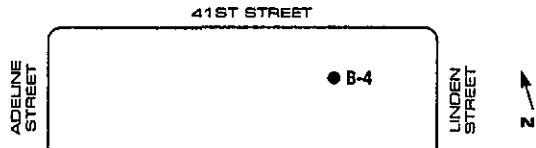


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

BORING NO. **B-4**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE

Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_

Ground Elev.: \_\_\_\_\_

Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level					DESCRIPTION
						Time					
						Date					
				CT	xxxxxx	CONCRETE					
		1		CL		CLAY, BLACK, DRY, NO ODOR					
	0.0	2									
		3	X								
		4									
	0.0	5									
		6	X								
	0.0	7									
		8				BLACK, MOIST, NO ODOR					
	0.0	9									
		10	X			GREEN, STRONG PETROLEUM ODOR					
	55.3	11				BROWN, MOIST, PETROLEUM ODOR					
	3.1	12									
	0.0	13									
		14									
	0.0	15									
		16									
						TOTAL DEPTH OF BORING = 16 FT.					
						No Groundwater Encountered					
		17									
		18									

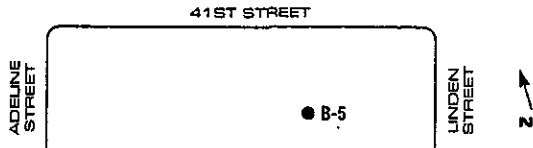


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-5**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level		DESCRIPTION		
						Time				
						Date				
				CT	XXXXXX			CONCRETE		
		1		CL				CLAY, BLACK/BROWN, MOIST, NO ODOR		
	6.5	2								
		3	X							
		4								
	19.1	5								GRAY, MOIST, NO ODOR
	3.9	6	X							
		7								
		8								
		9	X							BLACK, MOIST, STRONG PETROLEUM ODOR
	14.6	10								
		11								GREEN, STRONG PETROLEUM ODOR
	32.4	12								
		13	X							
	162.2	14								LESS GREEN, MORE BROWN, STRONG PETROLEUM ODOR
		15								
	119.1	16								
		17								TOTAL DEPTH OF BORING = 17 FT.
		18								No Groundwater Encountered

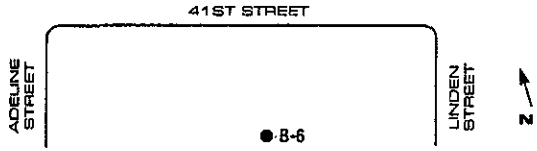


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-6**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data:  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION	
						Time	Date				
				CT	XXXXXX					CONCRETE	
6.2		1		Fill						CLAY WITH SAND, SOME GRAVEL (FILL), REDDISH BROWN, DRY, NO ODOR	
		2									
		3	X								
2.4		4		CL						CLAY, BLACK, DRY, NO ODOR	
		5									
		6	X								
		7									BROWN, MOIST, NO ODOR
		8									
85.5		9	X								BLACK, MOIST, PETROLEUM ODOR
33.4		10									
		11									
31.8		12									
		13	X								GREEN, STRONG PETROLEUM ODOR
212.2		14									
		15									
		16									
19.3		17									
		18									
						TOTAL DEPTH OF BORING = 18 FT.					
						No Groundwater Encountered					

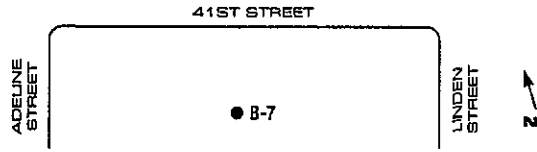


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-7**  
 Sheet 1  
 of 2

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level						DESCRIPTION
						Time						
						Date						
				CT	xxxxxx	CONCRETE						
		1				SAMPLE NOT RECOVERED						
		2				CLAY, BLACK, MOIST, PETROLEUM ODOR						
	23.2	3										
		4										
		5										
		6										
	31.3	7										
		8										
	55.7	9				DARK GRAY, MOIST, STRONG PETROLEUM ODOR						
		10										
	14.4	11										
		12										
	55.0	13				GREEN, STRONG PETROLEUM ODOR						
		14										
	27.5	15										
	54.3	16										
		17										
		18										

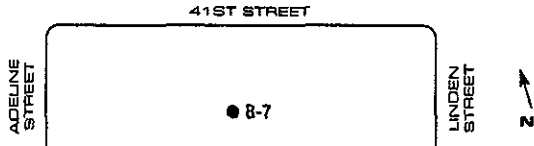


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

BORING NO. **B-7**  
 Sheet 2  
 of 2

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level					
						Time					
						Date					
DESCRIPTION											
						CLAY, GREEN, STRONG PETROLEUM ODOR					
		19									
		20	X								
	45.8	21									
		22				BROWN, MOIST, NO ODOR					
		23	X								
	0.0	24		CL							
		25									
		26									
		27									
	2.1	28									
		29									
		30				TOTAL DEPTH OF BORING = 30 FT.					
		31				No Groundwater Encountered					
		32									
		33									
		34									
		35									
		36									

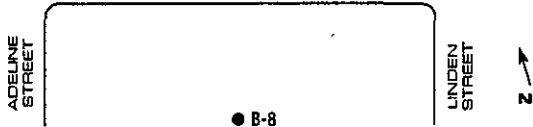


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION:  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-8**  
 Sheet 1  
 of 1

Field location of boring:  
 41ST STREET



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data:

Ground Elev.: Datum:

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION
						Time				
						Date				
				CT	XXXXXX	CONCRETE				
		1		CL	Diagonal Hatching	CLAY WITH SAND, SOME GRAVEL, DRY, NO ODOR				
						CLAY, DARK GRAY, DRY, NO ODOR				
	0.0	2								
			X							
	1.7	4								
			X							
		5				BROWN, DRY, NO ODOR				
				CL	Diagonal Hatching					
	18.3	7								
	122.7	8				BROWN, MOIST, PETROLEUM ODOR				
			X							
		9								
		10								
	79.5	11								
	33.1	12				SAMPLE NOT RECOVERED				
		13								
		14								
				CL	Diagonal Hatching	CLAY, GREENISH BLACK, STRONG PETROLEUM ODOR				
	156.9	16								
			X							
		17				REFUSAL AT 17 FT.				
		18				TOTAL DEPTH OF BORING = 17 FT.				
No Groundwater Encountered										







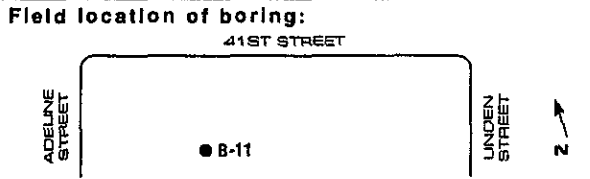




# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-11**  
 Sheet 1  
 of 2



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH  
 Casing Installation Data: \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION
						Time				
						Date				
				CT	XXXXXX	CONCRETE				
		1				SAMPLE NOT RECOVERED				
		2	X			CLAY, BLACK, MOIST, STRONG PETROLEUM ODOR				
		3	X							
		4		CL						
		5		CL						
		6		CL						
		7	X			DARK GRAY/GREEN, STRONG PETROLEUM ODOR				
	222.2									
	187.2									
		8		CL		CLAY WITH SAND (INCREASING GRAVEL CONTENT), BLACK, MOIST, STRONG PETROLEUM ODOR				
		9		CL		CLAY, DARK GRAY/GREEN, MOIST, STRONG PETROLEUM ODOR				
		10	X							
		11								
		12								
	70.8			CL						
		13								
		14								
		15								
	31.7		X							
		16								
		17								
	142.1			CL	CLAY WITH SAND (INCREASING GRAVEL CONTENT), GREEN, DRY, STRONG PETROLEUM ODOR					
		18								



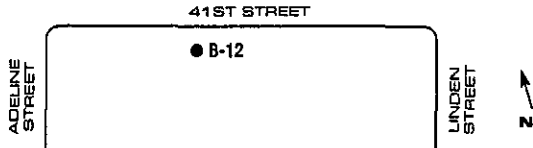


# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01    DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE    DRILLER: ECA

**BORING NO.**  
**B-12**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data:  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION
						Time				
						Date				
				CT	XXXXXX XXXXXX					CONCRETE
		1		Fill	Diagonal Hatching					CLAY WITH SAND, SOME GRAVEL (FILL), REDDISH BROWN, DRY, NO ODOR
	4.2	2								CLAY, BLACK, DRY, NO ODOR
		3	X							
		4								
	3.1	5								
		6								
		7	X							BLACK, MOIST, NO ODOR
		8								
	14.8	9		CL	Diagonal Hatching					MOIST, PETROLEUM ODOR
		10								
	71.6	11								GREEN, STRONG PETROLEUM ODOR
		12								
		13	X							
		14								GREEN, MOIST, STRONG PETROLEUM ODOR
	206.8	15								
		16								
		17								
		18								
						TOTAL DEPTH OF BORING = 17 FT.				
						Groundwater Encountered at 14'				
						at Time of Drilling				



# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-13**  
 Sheet 1  
 of 2

Field location of boring:



Drilling Method: GEOPROBE

Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_

Ground Elev.: \_\_\_\_\_

Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level				DESCRIPTION
						Time				
						Date				
				AS						ASPHALT
		1								CLAY, BLACK, DRY, NO ODOR
		2	X							
	3.8	3								
		4								
		5	X							
	3.5	6		CL						PETROLEUM ODOR
		7								
		8	X							
	27.1	9								BLACK/GREEN, MOIST, STRONG PETROLEUM ODOR
		10								
		11								
	10.9	12								
		13								CLAY WITH SAND (INCREASING GRAVEL CONTENT), GREEN, MOIST, STRONG PETROLEUM ODOR
		14	X							
	50.4	15		CL						
		16								CLAY, GREEN, MOIST, STRONG PETROLEUM ODOR
	0.0	17		CL						BROWN, NO ODOR
		18								





# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-14**  
 Sheet 1  
 of 1

Field location of boring:



Drilling Method: GEOPROBE

Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_

Ground Elev.: \_\_\_\_\_

Datum: \_\_\_\_\_

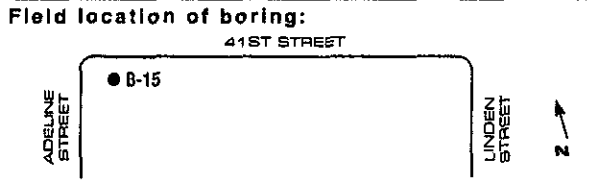
Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level						DESCRIPTION
						Time						
						Date						
		1		CT	XXXXXX							CONCRETE
	0.0	2		CL	/							CLAY WITH SAND, SOME GRAVEL (FILL), REDDISH BROWN, DRY, NO ODOR
		3	X									
	2.4	4										
		5										CLAY, BLACK, DRY, NO ODOR
	18.8	6										
		7	X									
	0.0	8										MOIST
		9										
	107.4	10										STRONG PETROLEUM ODOR
		11		CL								
		12										
		13	X									GREEN, STRONG PETROLEUM ODOR
		14										
	47.1	15										
		16										
		17										
		18										
						TOTAL DEPTH OF BORING = 17 FT.						
						Groundwater Encountered at 13' at Time of Drilling						



# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/4/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

BORING NO. **B-15**  
 Sheet 1  
 of 1



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level		DESCRIPTION
						Time		
						Date		
								SAMPLE NOT RECOVERED
		1						
		2						
		3	✗					CLAY, BROWN, SOME ROOTLETS, DRY, NO ODOR
	0.0	4						
		5						
		6	✗					
	2.4	7		CL				DARK GRAY, DRY, NO ODOR
		8						MOIST, STRONG PETROLEUM ODOR
		9						
		10	✗					GREEN
	131.5	11						CLAY WITH SAND (INCREASING GRAVEL CONTENT), GREEN, MOIST TO SATURATED, STRONG PETROLEUM ODOR
		12						
		13						
	4.2	14		CL				
		15						
		16						
		17						
		18						
						TOTAL DEPTH OF BORING = 17 FT.		
						Groundwater Encountered at 11' at Time of Drilling		





# LOG OF EXPLORATORY BORING

PROJECT NO.: 70-03365.01 DATE: 11/5/02  
 CLIENT: GREEN CITY LOFTS, LLC  
 LOCATION: \_\_\_\_\_  
 LOGGED BY: JE DRILLER: ECA

**BORING NO.**  
**B-16**  
 Sheet 1 of 1

Field location of boring:  
 41ST STREET



Drilling Method: GEOPROBE  
 Hole Dia.: 2 INCH

Casing Installation Data: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

Ground Elev.: \_\_\_\_\_ Datum: \_\_\_\_\_

Drilling Rate FT/MIN	PID OVA	Depth	Sample	Soil Group Symbol (USCS)	Litho- graphic Symbol	Water Level						DESCRIPTION
						Time						
						Date						
				AS		ASPHALT						
		1				CLAY, OLIVE GRAY, DRY, NO ODOR						
	7.4	2										
		3	⊗	CL								
		4										
		5										
		6	⊗			STRONG PETROLEUM ODOR						
	5.6	7		CL		CLAY WITH SAND (INCREASING GRAVEL CONTENT), MOIST, STRONG PETROLEUM ODOR						
		8										
		9	⊗	▽								
	74.4	10				CLAY, GREEN, MOIST, STRONG PETROLEUM ODOR						
		11										
		12										
		13				TOTAL DEPTH OF BORING = 12 FT.						
		14				Groundwater Encountered at 8.5' at Time of Drilling						
		15										
		16										
		17										
		18										



# LOG OF BORING B-17

(Page 1 of 1)

Green City Lofts LLC  
Subsurface Investigation  
1007 41st Street  
Emeryville, California

Date Started : 04/17/03  
Date Completed : 04/17/03  
Hole Diameter : 2-inch  
Drilling Method : Geoprobe  
Sampling Method : Macrocore

Driller : ECA  
Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
0 - 4					Silty Clay (CL) black, soft, moist
4 - 6	96				poor sample recovery 4 to 6 feet bgs
6 - 7.2		380			Silty Sand (SM) black, loose, saturated
7.2 - 9.5					Silty Clay (CL) black, medium stiff, wet
9.5 - 10.5	162				Clayey Gravel (GC) black, loose, saturated
10.5 - 13.5					Silty Clay (CL) black, stiff, wet
13.5 - 15.5	272				occasional sand stringer
15.5 - 16	159				transitions to brown clay, very stiff
16	132				
Total Depth of Boring = 16 feet					

Notes:  
Static water level at 7.20 feet bgs.  
Borehole abandoned with neat cement grout.



# LOG OF BORING B-18

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				--- --- ---	concrete
0 - 4.5	□ 124			Diagonal lines (top to bottom)	Gravelly Clay (CL) dark grey, soft, dry
4.5 - 9.5	□ 148			Vertical lines with dots	Silty Gravel (GM) light brown, loose, dry
9.5 - 11.5			▽ 9.70	Diagonal lines (bottom to top)	Gravelly Clay (CL) light grey, soft, dry
11.5 - 13.5	□ 463			Diagonal lines (bottom to top)	Gravelly Sandy Clay, light brown, soft, dry
13.5 - 16.0	⊗ 281			Diagonal lines (bottom to top)	Gravelly Clay, dark green, soft, wet
Total Depth of Boring = 16 feet					
20					

Notes:  
 Static water level at 9.70 feet bgs.  
 Borehole abandoned with neat cement grout.

04-24-2003 s:\test\borings\_logs\p03365\B-18\_BOR



# LOG OF BORING B-19

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0				---I---I---I---	concrete
0 - 5	□	5		Diagonal lines (top to bottom)	Gravelly Clay (CL) light brown to dark grey, soft, dry, hydrocarbon odor
5 - 8	□	3		Diagonal lines (top to bottom)	Silty Clay, dark grey, soft, moist
8 - 10	□	0	▽	Diagonal lines (top to bottom)	Silty Clay, greenish brown to green, stiff, moist
10 - 12				Stippled pattern	Gravelly Sand (SW) with fines, grey, loose, saturated subrounded gravels, sub angular sands
12 - 16	⊗	509		Diagonal lines (top to bottom)	Gravelly Clay (CL) greenish grey, soft, wet
Total Depth of Boring = 16 feet					

Notes:  
 Static water level at 9.30 feet bgs.  
 Borehole abandoned with neat cement grout.

04-24-2003 a:\test\borings\_logs\p03365B-19.BOR



# LOG OF BORING B-20

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
0 - 15.5	0, 0, 0, 0, 1, 28, 372, 501				Silty Clay (CL) reddish brown, soft, dry, rootlets  becomes moist color change to black  color change to green
15.5					Clayey Gravel (GC) angular gravel in green clay matrix, dense/soft, saturated
15.5					refusal at 15.5 feet bgs
Total Depth of Boring = 15.5 feet					

Notes:  
 Static water only at base of borehole.  
 Borehole abandoned with neat cement grout.

04-24-2003 s:\est\boring\_logs\p03365B-20.BOR



# LOG OF BORING B-21

(Page 1 of 1)

Green City Lofts LLC  
Subsurface Investigation  
1007 41st Street  
Emeryville, California

Date Started : 04/17/03  
Date Completed : 04/17/03  
Hole Diameter : 2-inch  
Drilling Method : Geoprobe  
Sampling Method : Macrocore

Driller : ECA  
Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
0 - 2.83		283			Gravelly Clay (CL) light brown to dark grey, soft, dry
2.83 - 5.85		585			Silty Clay, dark grey, soft, moist
5.85 - 9.53		530			Silty Clay, greenish brown to green, stiff, moist
9.53 - 11.5					Gravelly Sand (SW) with fines, grey, loose, saturated subrounded gravels, sub angular sands
11.5 - 16.0		541			Gravelly Clay (CL) greenish grey, soft, wet
Total Depth of Boring = 16 feet					

Notes:  
Hole collapsed at 12 feet bgs, no static water at this depth.  
Borehole abandoned with neat cement grout.

04-24-2003 s:\es\borings\_logs\p03365B-21.BOR



# LOG OF BORING B-22

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
					Silty Clay (CL) black, soft, dry, rootlets
15		15			
40		40			becomes stiff
63		63			
454		454			changes to green color
15					changes to brown color
22		22			
Total Depth of Boring = 16 feet					

Notes:  
 Dry hole.  
 Borehole abandoned with neat cement grout.



# LOG OF BORING B-23

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
0 - 4					Gravelly Sand (SW) light brown, loose, dry
4 - 16					Clay, green, stiff, dry
4.5	58				
8.5	38				
12.5	88				becomes green
14.5					becomes gravelly clay, green, medium stiff, dry
16	531				
Total Depth of Boring = 16 feet					

Notes:  
 Dry hole, no water had entered borehole prior to abandonment.  
 Borehole abandoned with neat cement grout.

04-24-2003 s:\est\boring\_logs\p03365\B-23.BOR





# LOG OF BORING B-24

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					concrete
					Gravelly Clay (CL) light brown, soft, dry
5		58			Silty Clay, dark grey, soft, dry
		57			Clay, dark grey, medium stiff, dry
10		32			Clay, green, stiff, dry
					Clay, greenish brown, stiff, dry
15		259			
Total Depth of Boring = 16 feet					
20					

04-24-2003 s:\as\borings\_logs\03365B-24.BOR

Notes:  
 Dry hole, no water had entered borehole prior to abandonment.  
 Borehole abandoned with neat cement grout.



# LOG OF BORING B-25

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
					Silty Clay (CL) fdark brown, soft, dry
5	1				becomes moist, slightly more silty
					becomes black, stiff clay
	88				thin 3" sand stringer
	461				becomes green clay, stiff
10	197				becomes gravelly from 11 to 13 feet bgs
	14				
15	2				transistion to orange brown clay, very stiff
Total Depth of Boring = 16 feet					
20					

Notes:  
 Dry hole, no water had entered borehole prior to abandonment.  
 Borehole abandoned with neat cement grout.

04-24-2003 s:\as\boring\_logs\03365\B-25.BOR



# LOG OF BORING B-26

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
					Gravelly Clay (CL) reddish brown, soft, dry, rootlets
					becomes silty clay at 2 feet bgs, brown, soft, dry
5		0			
			5.67		becomes moist, and black-brown
		0			becomes greenish grey clay, stiff, moist
10		0			
	⊗	14.7			
					becomes gravelly from 12.5 to 14 feet bgs
	⊗	208			
15					
	⊗	127			
Total Depth of Boring = 16 feet					
20					

**Notes:**

Static water level at 5.67 feet bgs.  
 Borehole abandoned with neat cement grout.

04-24-2003 s:\test\borings\_logs\03365\B-26.BOR



# LOG OF BORING B-27

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
0 - 10		0			Gravelly Clay (CL) dark brown, soft, dry, rootlets
10 - 12		0			becomes light grey clay, stiff, moist
12	437				

Total Depth of Boring = 12 feet

Notes:  
 Static water level at 10.60 feet bgs.  
 Borehole abandoned with neat cement grout.



# LOG OF BORING B-28

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 04/17/03  
 Date Completed : 04/17/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : ECA  
 Logged by : Warren Chamberlain

Clayton Project No.: 70-03365.01

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					asphalt surface cover
0 - 4.1				[Diagonal Hatching]	Silty Clay (CL) dark brown, soft, dry, rootlets
4.1 - 4.77	41			[Diagonal Hatching]	
4.77 - 5.57	27			[Diagonal Hatching]	
5.57 - 10.0			▽	[Vertical Dotted]	Silty Sand (SM) brown, loose, saturated
5.57 - 6.25	557			[Vertical Dotted]	
6.25 - 9.8	782			[Vertical Dotted]	
9.8 - 12.0				[Diagonal Hatching]	Gravelly Silty Clay (CL) green, stiff, moist
9.8 - 10.5	340			[Diagonal Hatching]	
Total Depth of Boring = 12 feet					
15					
20					

Notes:  
 Static water level at 6.70 feet bgs.  
 Borehole abandoned with neat cement grout.



# LOG OF BORING OB-10

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/30/03  
 Date Completed : 06/30/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in Feet	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock
0 - 4					CLAY (CL) black, medium stiff, dry, trace gravel
4 - 11					Color change to olive brown, stiff, hydrocarbon odor
11 - 16					SILTY CLAY (CL) brown, loose, trace gravel
Total Depth of Boring = 16 feet					
20					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Grab groundwater sample taken at 12:20.  
 Borehole abandoned with neat cement grout.

08-04-2003 a:\es\boodig\_bod\p03365\OB-10 BCR



# LOG OF BORING OB-9

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/27/03  
 Date Completed : 08/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock
0 - 4					CLAY (CL) dark brown, stiff, dry
4 - 10		0.0			Color change to olive brown, stiff, dry, trace large angular gravel (volcanics)
10 - 18		0.0			SILTY CLAY (CL) brown, medium stiff, moist, trace angular gravel
18		0.0	▽		
18 - 24		0.0			
Total Depth of Boring = 24 feet					

06-04-2003 1:15pm boring logs\70-03365\OB-9.BOR

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 18 feet.  
 Grab groundwater sample taken at 11:20.  
 Borehole abandoned with neat cement grout.



# LOG OF BORING OB-8

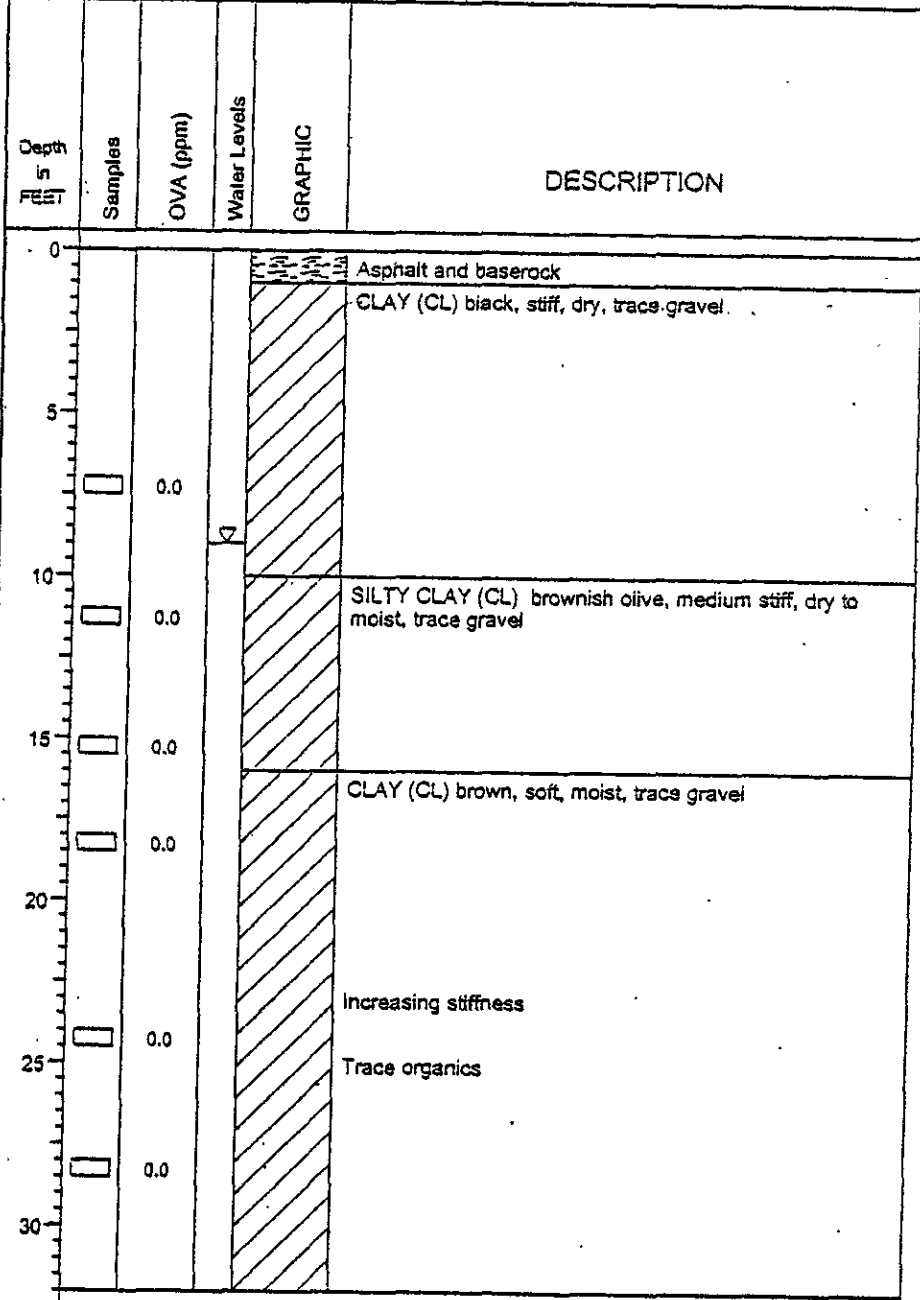
(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/27/03  
 Date Completed : 06/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03



Total Depth of Boring = 32 feet

**Notes:**

- Borehole was initiated with hand auger to 4 feet bgs.
- Static water level at 9.0 feet.
- Grab groundwater sample taken at 14:50.
- Borehole abandoned with neat cement grout.

08-04-2003 a:\test\borings\_log\03365\OB-8.BOR





# LOG OF BORING OB-7

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/30/03  
 Date Completed : 06/30/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock
0 - 4					SANDY SILT (ML) brown, loose, dry, trace gravels
4 - 7		0.0			CLAY (CL) olive gray, stiff, moist to dry
7 - 10		0.0			SILTY CLAY (CL) olive brown, loose, dry, mixed with volcanics
10 - 13		0.0			SILTY CLAYEY SAND (SC) olive gray, loose, saturated
13 - 20					CLAYEY SILT (ML) reddish brown, medium stiff, moist
Total Depth of Boring = 20 feet					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 13 feet.  
 Grab groundwater sample taken at 9:20.  
 Borehole abandoned with neat cement grout.

08-04-2003 a:\test\borings\logs\03365\OB-7.BOR



# LOG OF BORING OB-6

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/27/03  
 Date Completed : 06/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in feet	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock
0 - 4					CLAY (CL) black, stiff, dry
4 - 8		0.0			CLAY (CL) olive, stiff, moist
8 - 12		0.0			Color change to brown, trace gravel
12 - 22		0.0			SILTY CLAY (CL) brown, medium stiff, moist, trace angular gravel
22 - 24		0.0			CLAY (CL) olive gray, very stiff, moist
24 - 26			▽		SANDY CLAY (CL) brown, soft, very moist
26 - 28					CLAYEY GRAVEL (GC) brown, stiff, saturated
Total Depth of Boring = 28 feet					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 24 feet. Grab groundwater sample taken at 15:40 p.m.  
 Borehole abandoned with neat cement grout.

06-04-2003 4:54:00pm Log#03365/0B-6 BOR



# LOG OF BORING OB-5

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 08/27/03  
 Date Completed : 08/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in FEET	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock
0 - 8					CLAY (CL) brown/olive, soft, moist
8 - 16		0.0			CLAY (CL) olive gray, stiff, moist, trace gravel, organic matter-plant fibers, hydrocarbon odor
16 - 18		74			SILTY CLAY (CL) brown, medium stiff, moist
18 - 23		5.0			CLAY (CL) brown/olive, stiff, moist, trace angular gravel
23					Very stiff at 23 feet
23 - 29					SILTY CLAY (CL) brown, soft, moist, trace gravel
29 - 30					CLAYEY GRAVEL (GC) brown, loose, saturated
30 - 32					SILTY CLAY (CL) brown, stiff, moist
Total Depth of Boring = 32 feet					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 28 feet. Grab groundwater sample taken at 15:10 p.m.  
 Borehole abandoned with neat cement grout.

08-04-2003 s:\backoring\_logs\03365\OB-5.BOR



# LOG OF BORING OB-4

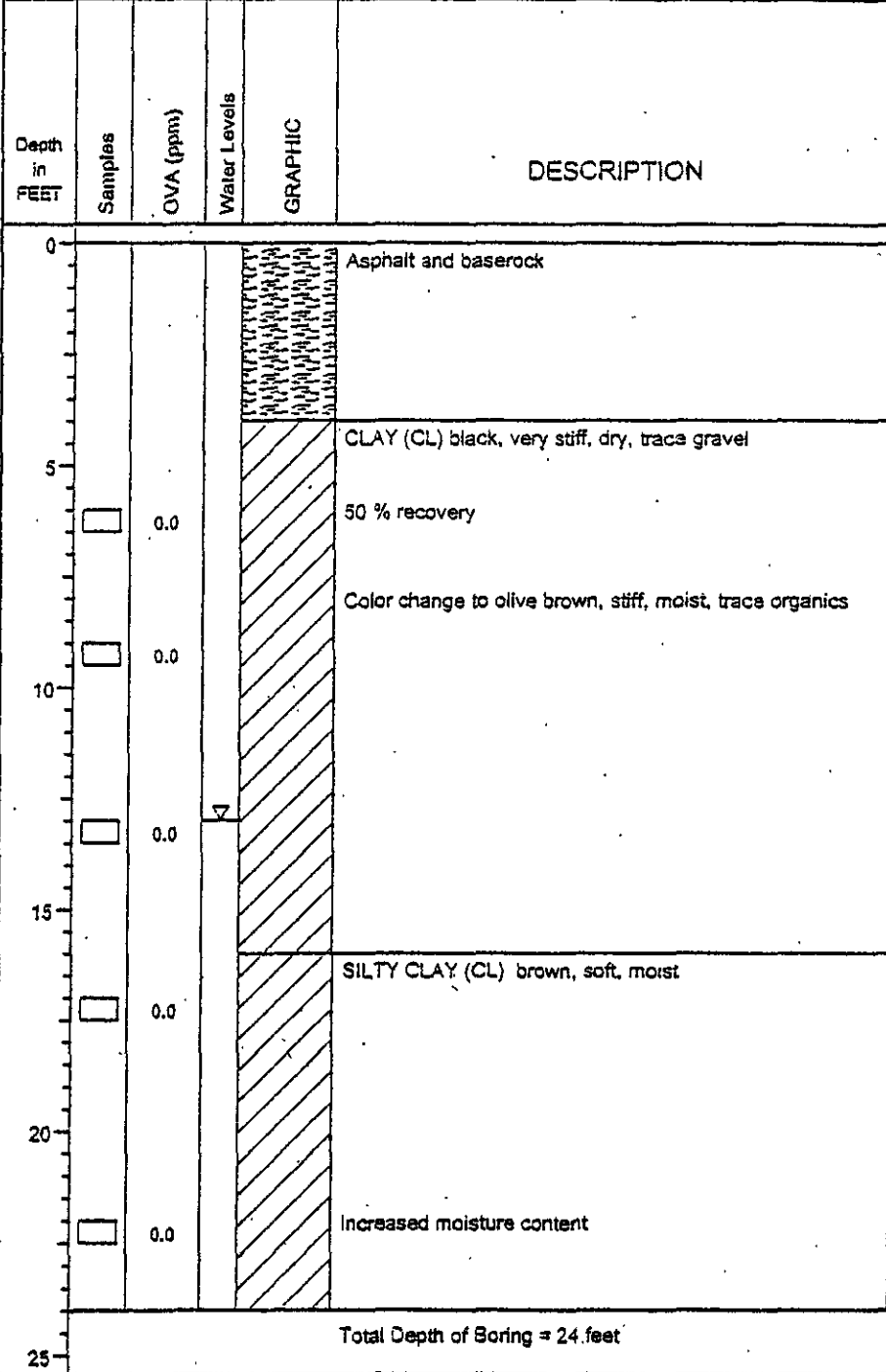
(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/27/03  
 Date Completed : 06/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03



Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Grab groundwater sample taken at 10:30.  
 Borehole abandoned with neat cement grout.

06-04-2003 8:12:00 AM Logging Logsp03365OB-4 BOR



# LOG OF BORING OB-3

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/27/03  
 Date Completed : 06/27/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in Feet	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and basecoat
0 - 4					CLAY (CL) brown, stiff, dry
4 - 11		0.0			Color change to yellowish orange, moist, trace gravels, trace organics
11 - 16		0.0			SILTY CLAY (CL) brownish olive, stiff, moist, trace organics
16 - 18		0.0	▽		CLAY (CL) brown, medium stiff, moist, trace organics
18 - 20		0.0			SILTY GRAVELLY SAND (SM) brownish orange, loose, saturated
20 - 23		0.0			SILTY CLAY (CL) brown, moist, trace gravel
23 - 24		0.0			CLAYEY SILT (ML) brown, large angular gravel, moist
Total Depth of Boring = 24 feet					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 16.7 feet. Grab groundwater sample taken at 8:50 a.m.  
 Borehole abandoned with neat cement grout.

06-04-2003 8:55am Boring Log 70-03365.03 BOR



# LOG OF BORING OB-2

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/30/03  
 Date Completed : 06/30/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Driller : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in Feet	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and bedrock
0 - 4.3					SANDY SILT (ML) brown, fine, loose, dry, trace gravels
4.3 - 43.4					CLAY (CL) black, stiff, dry, slightly organic, slight odor
43.4 - 114					CLAYEY SILT (ML) olive, stiff, moist to dry,
114 - 75					Trace volcanic gravel, fractured/angular
75 - 16					Color change to redish brown, very stiff
16					Static water level at 16 feet bgs.
16 - 18		1.5			Grab-groundwater sample taken at 10:15 a.m.
18 - 20		1.3			
Total Depth of Spring = 20 feet					

Notes:  
 Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 16 feet bgs. Grab-groundwater sample taken at 10:15 a.m.  
 Borehole abandoned with neat cement grout.

08-04-2003 a:\test\borings\_logs\03365\OB-2 BOR



# LOG OF BORING OB-1

(Page 1 of 1)

Green City Lofts LLC  
 Subsurface Investigation  
 1007 41st Street  
 Emeryville, California

Date Started : 06/30/03  
 Date Completed : 06/30/03  
 Hole Diameter : 2-inch  
 Drilling Method : Geoprobe  
 Sampling Method : Macrocore

Soilier : Gregg  
 Logged by : Matt Reimer

Clayton Project No.: 70-03365.03

Depth in Feet	Samples	OVA (ppm)	Water Levels	GRAPHIC	DESCRIPTION
0					Asphalt and baserock;
0 - 4					CLAY (CL) black, stiff, moist
4 - 8		0.0			SILTY CLAY (CL) brownish black, medium stiff, dry to moist
8 - 9		28.8			CLAYEY SILT (ML) brownish, stiff, moist, trace volcanic gravels
9 - 11		0.0			
11 - 24		0.0			SILTY CLAY (CL) brown/olive, stiff, moist, trace volcanics
24 - 28		0.0			CLAYEY SILT (ML) brown, medium stiff, moist
28 - 32					SILTY CLAY (CL) brown, soft, moist
Total Depth of Boring = 32 feet					

**Notes:**

Borehole was initiated with hand auger to 4 feet bgs.  
 Static water level at 24 feet. Grab groundwater sample taken at 11:35 a.m.  
 Borehole abandoned with neat cement grout.

06-04-2003 a:\clay\boring\_logs\03365\OB-1.BOR



# LOG OF BORING CW-1

(Page 1 of 1)

Former Dunne Paint Facility  
1007 41st Street  
Oakland, California

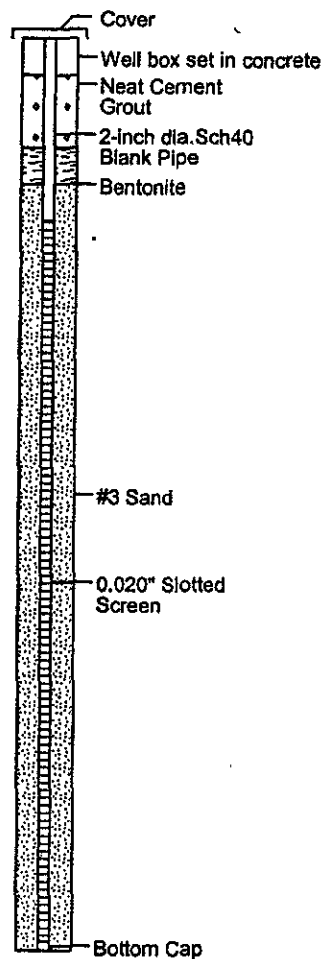
Date Started : 10/31/03  
Date Completed : 10/31/03  
Hole Diameter : 8-inch  
Drilling Method : Hollow Stem Auger  
Sampling Method : Cal Modified Split Spoon

Driller : Clear Heart Drilling  
Logged by : Mike Krzeminski  
Surveyor : V. Chavez  
Top of Casing : ft, msl

Clayton Project No.: 70-03365.05

Depth in FEET	Samples	Blow Count	OVM (mg/kg)	USCS	GRAPHIC	DESCRIPTION
0						Asphalt and Baserock
0 - 10				CL		Silty Clay (CL) (0,0,30,70), dark brown, dry.
10 - 12	X	9	478	CL		Gravelly Clay with trace sand (CL) (30,10,0,60), greenish gray, medium stiff, fine angular gravel, moist, hydrocarbon odor present.
12 - 17		12				
17 - 18		17				
15 - 20	X	10	4.8	GW/SW		Gravelly Sand (GW/SW) (50,50,0,0), light brown, medium dense, fine gravel, medium sands, saturated, no odor.
20 - 18		13				
18 - 16		18				
25						Total Depth of Boring = 25 feet
30						

Well: CW-1  
Elev.:



11-18-2003 8:45:10 AM LOGS\03365\CW-1.log

Notes:





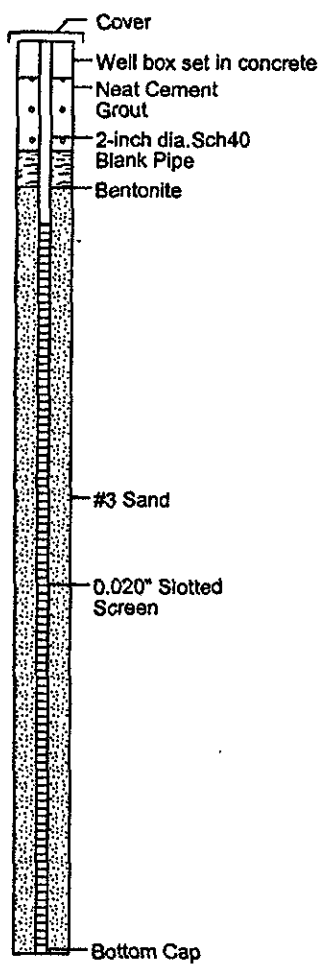
# LOG OF BORING CW-2

(Page 1 of 1)

Former Dunne Paint Facility 1007 41st Street Oakland, California	Date Started : 10/30/03	Driller : Clear Heart Drilling
	Date Completed : 10/30/03	Logged by : Mike Krzeminski
Clayton Project No.: 70-03365.05	Hole Diameter : 8-Inch	Surveyor : V. Chavez
	Drilling Method : Hollow Stem Auger	Top of Casing : ft, msl
	Sampling Method : Cal Modified Split Spoon	

Depth in FEET	Samples	Blow Count	OMV (mg/kg)	USCS	GRAPHIC	DESCRIPTION
0						Asphalt and Baserock
5	7, 10, 15, 6, 9, 13, 6, 19, 20	7, 10, 15, 6, 9, 13, 6, 19, 20	0.3, 0.3, 445	CL	[Hatched Pattern]	Silty Clay trace gravel (CL) (5,0,40,55), dark brown, very stiff, fine subangular gravel, dry, rootlets.
10	13, 17, 8, 10, 15, 9, 18, 19, 8, 15, 17	13, 17, 8, 10, 15, 9, 18, 19, 8, 15, 17	762, 25.1, 0.9	CL, GW/SW	[Dotted Pattern]	Gravelly Clay trace sand (CL) (30,10,10,50), greenish gray, stiff, coarse gravel, moist, hydrocarbon odor present. Gravelly Sand (GW/SW) (50,50,0,0), light brown, medium dense, coarse gravel, medium sands, saturated, no odor.
20	13, 17, 20	13, 17, 20	0.3	GW	[Dotted Pattern]	Sandy Gravel (GW) (60,40,0,0) light brown, medium dense, coarse gravel, medium sands, saturated.
25						Total Depth of Boring = 25 feet

Well: CW-2  
Elev.:



11-18-2003 11:15:00 AM LOGS\p03365\CW2 bor

Notes:



# LOG OF BORING CW-3

(Page 1 of 1)

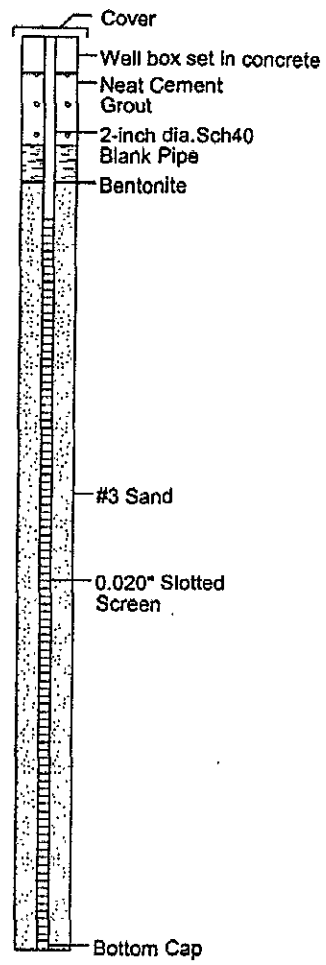
Former Dunne Paint Facility  
 1007 41st Street  
 Oakland, California  
 Clayton Project No.: 70-03365.05

Date Started : 10/30/03  
 Date Completed : 10/30/03  
 Hole Diameter : 8-inch  
 Drilling Method : Hollow Stem Auger  
 Sampling Method : Cal Modified Split Spoon

Driller : Clear Heart Drilling  
 Logged by : Mike Krzeminski  
 Surveyor : V. Chavez  
 Top of Casing : ft, msl

Depth in FEET	Samples	Blow Count	OMV (mg/kg)	USCS	GRAPHIC	DESCRIPTION
0						Asphalt and Baserock
5	X	11 18 22	0.3	CL	[Hatched Pattern]	Silty Clay (CL) (0,0,30,70), dark brown, stiff, dry, rootlets.
10	X	10 15 17	0.3	CL	[Hatched Pattern]	Gravelly Clay with trace sand (CL) (30,10,0,60), light brown, medium stiff, fine angular gravel, moist.
15	X	8 12 18	0.3		[Dotted Pattern]	Silty Clay trace gravel (CL) (10,0,30,60), light brown, medium stiff, fine angular gravel, saturated.
20	X	9 14 18	0.3	GW/SW	[Dotted Pattern]	
25						Total Depth of Boring = 25 feet
30						

Well: CW-3  
 Elev.:



11-18-2003 5:56:03 PM BORING LOGS\903365\CW-3 bor

Notes: