

Ro-262



December 28, 2004

Ms. Donna Drogos
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway
Alameda, CA 94502-6577

Alameda County
JAN 06 2005
RECEIVED

SUBJECT: NEW CASE WORKER ASSIGNMENT
Albany Hill Mini Mart
800 San Pablo Avenue
Albany, California

Dear Ms. Drogos:

Per our telephone conversations, enclosed are data from the above referenced site, including boring location maps, soil and groundwater analytical tables and boring logs. We need to speak with a new case worker regarding additional work prior to conducting any additional investigation, as this was designed as a rapid assessment. The old case worker was Scott Seery, who is no longer working on this case. During our telephone conversation, you stated that you would assign a new case worker (at least temporarily) after the holidays.

Should you have any questions, please feel free to call me at (925) 820-9391. X 103

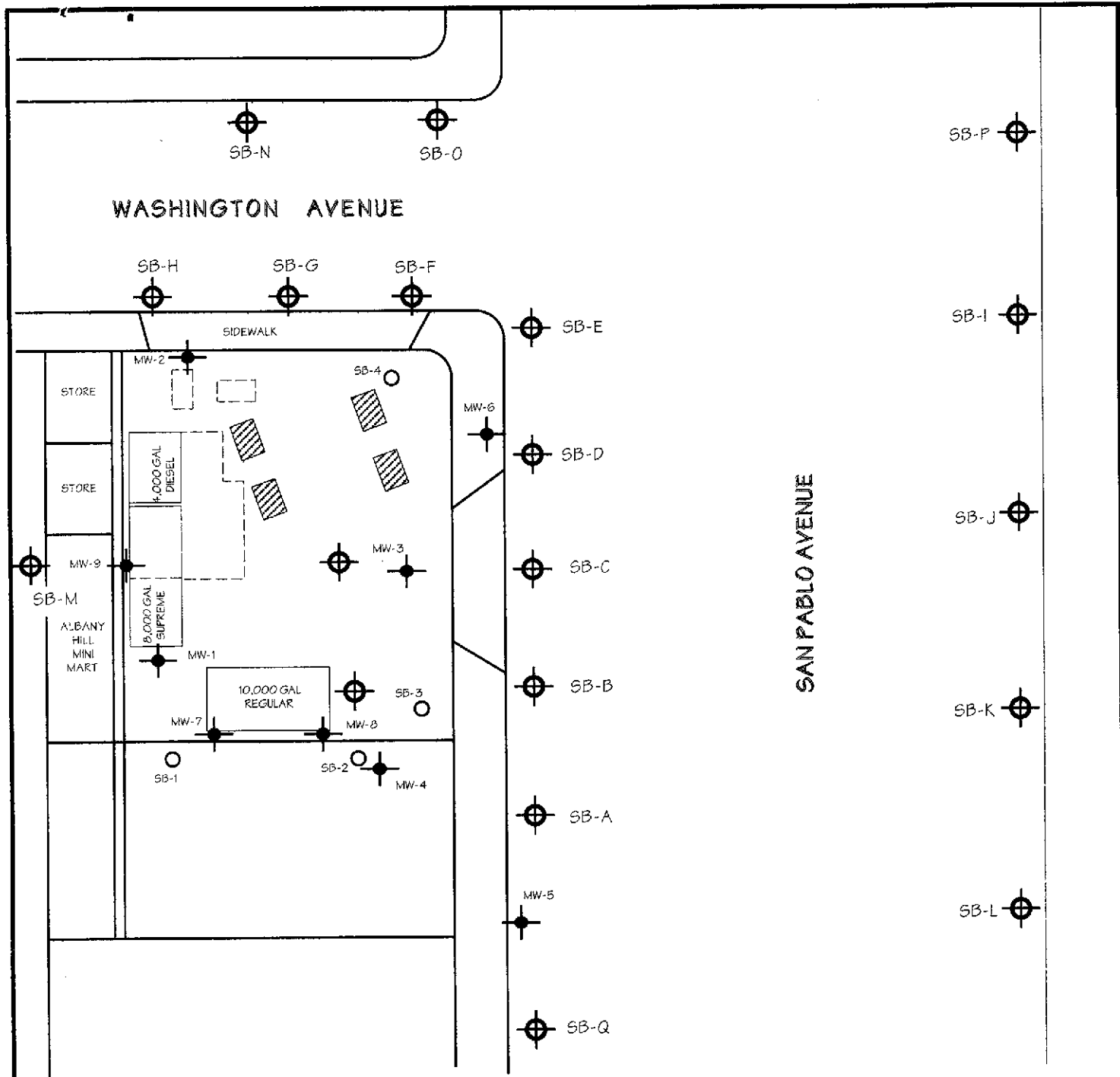
Respectfully submitted,

AQUA SCIENCE ENGINEERS, INC.

Robert E. Kitay
Robert E. Kitay, RG, REA
Senior Geologist

cc: Joginder Sikand, 1300 Ptarmigan Drive #1, Walnut Creek, CA 94595

Betty Graham, California Regional Water Quality Control Board, S.F. Bay Region, 1515 Clay Street, Suite 1400, Oakland, CA 94612



LEGEND

MW-2		MONITORING WELL	 NORTH
SB-2		SOIL BORING	
SB-A		ASE ADVANCED SOIL BORING	

SCALE: 1" = 20'

**BORING
LOCATION MAP**

ALBANY HILL MINI MART
800 SAN PABLO AVENUE
ALBANY, CALIFORNIA

AQUA SCIENCE ENGINEERS	Figure 4
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Borings
August 2004

TABLE ONE
 Certified Analytical Results for SOIL Samples
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA
 All results are in parts per million (ppm)

Well ID & Dates Sampled	Sample Depth (feet)	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
BH-A	13	180	3.1*	0.0510	<0.025	2.8	4.7	<0.025	<0.25	<0.025	<0.025
	16.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.015	<0.0050	<0.0050
	24.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
BH-B	11.5	240	22*	0.14	<0.025	3.8	4.9	<0.025	<0.15	<0.025	<0.025
BH-C	14.5	400	71*	0.052	<0.025	<0.025	<0.025	<0.025	<0.15	<0.025	<0.025
	23.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.015	0.16	<0.0050
BH-D	6.5	<1.0	130	0.0070	0.02	0.0064	0.058	<0.0050	0.047	<0.0050	<0.0050
	14.5	34	66	0.033	0.052	<0.0060	0.024	<0.0060	<0.030	0.026	<0.0060
	19.5	11	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0066	0.0067	<0.0050
BH-E	13.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	0.0058	<0.0050
	18.5	<1.0	1.4*	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	0.086	<0.0050
BH-F	14.0	210	69*	2.70	14	4.7	24	<0.025	<0.25	0.026	<0.025
BH-G	14.5	170	25*	2.70	7.8	3.1	16	<0.025	<0.25	0.060	<0.025
BH-H	14.5	45	51*	0.28	0.39	0.74	3	<0.025	<0.25	<0.025	<0.025
BH-I	24.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050
BH-K	23.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050
BH-L	23.5	<1.0	1.4	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.025	<0.0050	<0.0050
BH-M	14.5	180	61*	1.4	0.19	3.0	15	<0.050	<0.25	<0.050	<0.050
	20.5	<1.0	<1.0	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
BH-O	9.5	350	27*	1.8	0.25	5.3	16	<0.025	<0.25	<0.050	<0.025
	17.7	<1.0	3.4*	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
ESL		100	500	0.18	9.3	4.7	15	NE	NE	2	Varies

Notes:

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Concentrations exceeding ESLs are in Bold.

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory detection limit.

NE means that no ESL has been established for this compound.

TABLE TWO
 Certified Analytical Results for GROUNDWATER Samples
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA
 All results are in parts per billion (ppb)

Well ID & Dates Sampled	Sample Depth (feet)	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
BH-A	20-22	290	120*	5.3	< 0.5	9.9	16	< 0.5	8.1	< 0.5	< 0.5
	25-27	420	920*	18	1.1	29	50	< 0.5	7.1	< 0.5	< 0.5
BH-B	23-25	13,000	< 3,000	420	< 2.5	530	740	< 2.5	< 25	3.2	< 2.5
	33-35	530	< 50	0.99	0.60	0.53	0.69	< 0.5	< 5.0	< 0.5	< 0.5
BH-C	25-27	< 500	110	18	< 5.0	< 5.0	< 5.0	7.5	< 50	2,000	< 5.0
BH-D	10-12	12,000	< 80,000	1,600	2,300	190	1,500	< 7.0	210	87	< 7.0
	23-25	170	51	5.2	8.8	1.2	6.9	2.0	15	620	< 0.90
BH-E	20-22	< 700	78	< 7.0	< 7.0	< 7.0	< 7.0	21.0	< 40	3,300	< 7.0
BH-F	23-25	5,400	< 800	210	320	90	480	750	41	1,500	< 2.5
BH-G	23-25	7,300	< 400	260	660	180	960	13	< 100	5,000	< 10
	28-30	< 1,000	160	47	30	< 10	10	14	< 100	4,800	< 10
BH-H	23-25	2,300	< 300	44	86	79	340	< 2.5	< 25	1,400	< 2.5
	32-34	< 500	120	13	12	< 5.0	7.2	< 5.0	< 50	1,900	< 5.0
BH-I	25-27	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5
BH-J	25-27	< 50	< 50	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5
BH-K	25-27	< 50	100	< 0.5	< 0.5	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5
BH-L	25-27	320	70	< 0.5	0.60	< 0.5	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5
BH-M	22-24	730	2,000	94	4.0	36	100	< 0.5	< 5.0	< 0.5	1.4 (DIPE)
BH-O	25-27	1,900	1,500*	150	42	82	340	21	< 5.0	140	< 0.5
MW-1		900	82	210	8.4	52	23	< 0.5	5.1	220	< 0.5
MW-2		< 100	72	1.6	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	620	< 1.0
MW-3		< 1,000	140	110	< 10	< 10	21	20	200	4,400	< 10
MW-4		1,600	180	370	6.5	68	93	< 1.0	10	13	1.1 (DIPE)
MW-5		1,300	150	2.4	< 0.5	0.77	< 0.5	< 0.5	< 5.0	< 0.5	< 0.5
MW-6		< 1,000	390	2.7	< 0.5	< 0.5	< 0.5	2.3	48	280	< 0.5
MW-7		4,800	< 300	640	16	250	490	< 1.5	31	590	< 1.5

TABLE TWO
 Certified Analytical Results for **GROUNDWATER** Samples
 Albany Hill Mini Mart
 800 San Pablo Avenue, Albany, CA
 All results are in **parts per billion (ppb)**

Well ID & Dates Sampled	Sample Depth (feet)	TPH Gasoline	TPH Diesel	Benzene	Toluene	Ethyl-benzene	Total Xylenes	TAME	TBA	MTBE	Other VOCs
MW-8		<2,000	200	110	<20	26	49	25	<200	8,600	<20
MW-9		12,000	<1,500	890	37	280	2,000	<5.0	<50	<5.0	<5.0
ESL		500	640	46	150	290	13	NE	NE	1,800	Varies

Notes:

ESL = Environmental screening levels presented in the "Screening For Environmental Concerns at Sites With Contaminated Soil and Groundwater (July 2003)" document prepared by the California Regional Water Quality Control Board, San Francisco Bay Region.

Concentrations exceeding ESLs are in **Bold**.

Non-detectable concentrations noted by the less than sign (<) followed by the laboratory detection limit.

NE means that no ESL has been established for this compound.

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-A

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hriciga Date Drilled: August 24, 2004 Checked By: Robert E. Kitay, R.G.

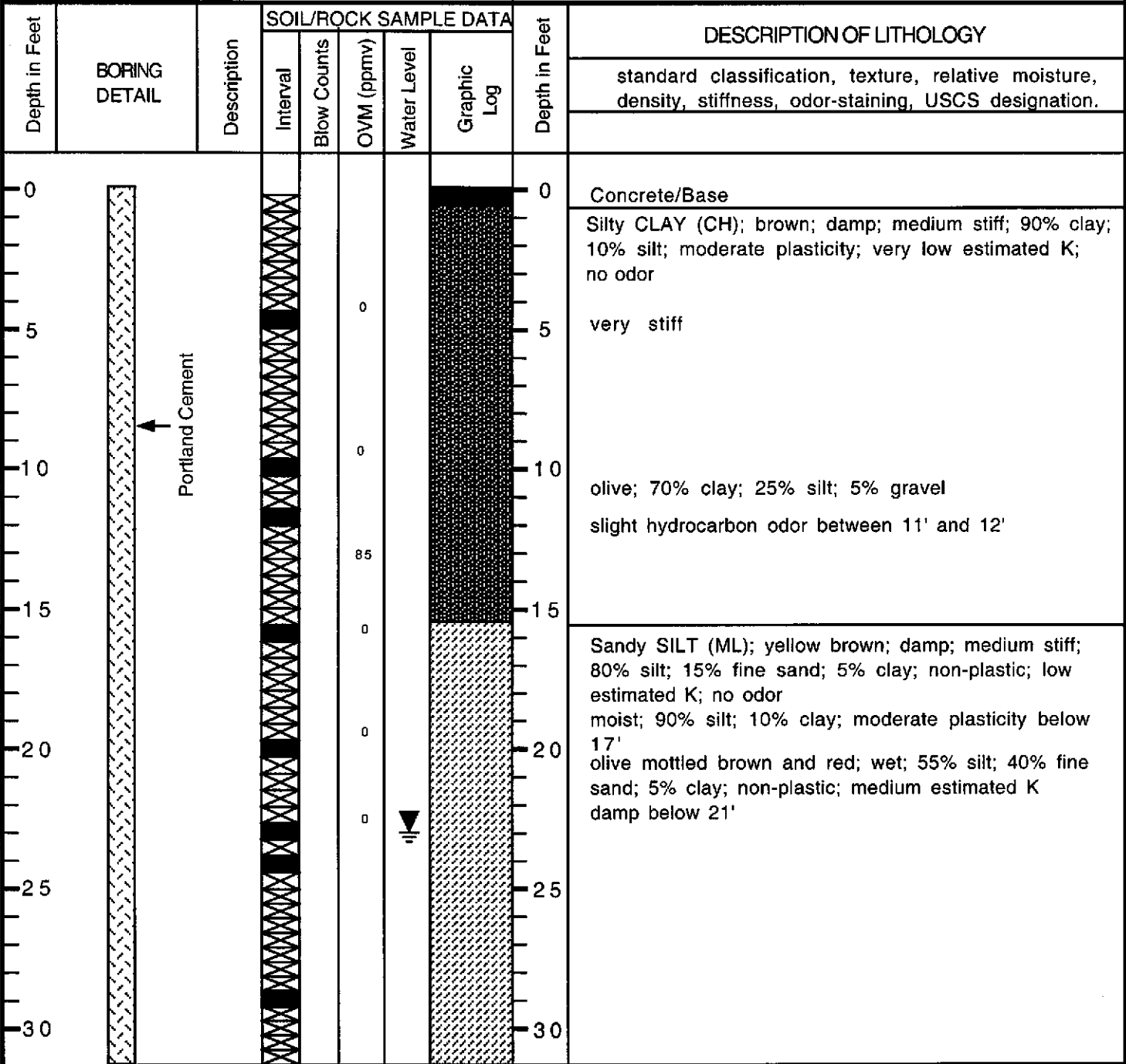
WATER AND WELL DATA
 Depth of Water First Encountered: 25'
 Static Depth of Water in Well: NA
 Total Depth of Boring: 27'
 Total Depth of Well Completed: NA
 Well Screen Type and Diameter: NA
 Well Screen Slot Size: NA
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level		
0							0	Concrete/Base
5					0		5	Sandy CLAY (CH); olive mottled yellow brown; dry; very stiff; 80% clay; 20% fine sand; low plasticity; low estimated K; no odor
10					0		10	CLAY (CH); olive; damp; stiff; 100% clay; high plasticity; very low estimated K; no odor
15					85		15	Silty CLAY (CH); olive; moist; medium stiff; 80% clay; 15% silt; 5% fine sand; moderate plasticity; low estimated K; no odor odor below 12 feet
20					0		20	Sandy SILT (ML); olive mottled yellow brown; moist; stiff; 70% silt; 25% fine sand; 5% clay; low plasticity; low estimated K; no odor
25					0		25	olive mottled brown and red; 55% silt; 40% fine sand; 5% clay; non-plastic; medium estimated K olive mottled yellow brown; 70% silt; 25% fine sand; 5% clay; low plasticity; low estimated K below 20.5 feet: olive mottled brown and red; 55% silt; 40% fine sand; 5% clay; non-plastic; medium estimated K
30							30	End of boring Refusal

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-B

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 2
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 19, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 23'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 35'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler





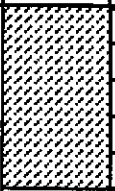
SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-B

Project Name: Albany Hill

Project Location: 800 San Pablo Ave, Albany, CA

Page 2 of 2

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level		Graphic Log
35		Portland Cement						Continuation from above
40								End of boring Refusal
45								
50								
55								
60								
65								

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-C

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hriciga Date Drilled: August 24, 2004 Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA
 Depth of Water First Encountered: 25'
 Static Depth of Water in Well: NA
 Total Depth of Boring: 27'
 Total Depth of Well Completed: NA
 Well Screen Type and Diameter: NA
 Well Screen Slot Size: NA
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		
0	<p>Portland Cement</p>							0	Concrete/Base
5								Sandy CLAY (CH); olive; moist; stiff; 90% clay; 10% fine sand; moderate plasticity; very low estimated K; no odor damp, low plasticity below 3'	
10								CLAY (CH); olive; damp; very stiff; 100% clay; high plasticity; very low estimated K; slight hydrocarbon odor	
15								Sandy CLAY (CH); olive; damp; stiff; 70% clay; 15% fine sand; 10% silt; 5% gravel; low plasticity; low estimated K; moderate hydrocarbon odor moist; soft below 14'	
20								Sandy SILT (ML); olive mottled yellow brown; moist; medium stiff; 80% silt; 20% fine sand; non-plastic; low estimated K; no odor	
25								no recovery from 15' to 20'	
25								no recovery from 24' to 27'; wet	
30								End of boring Refusal	

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-D

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 25, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 10'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 25'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY	
			Interval	Blow Counts	OVM (ppmv)	Water Level			Graphic Log
0								0	Concrete/Base
5								CLAY (CH); olive; moist; soft; 100% clay; high plasticity; very low estimated K; no odor slight hydrocarbon odor	
10								SAND (SW); white; dry; loose; 95% fine to coarse sand; 5% gravel; non-plastic; high estimated K; strong hydrocarbon odor	
15								Sandy CLAY (CH); olive; wet; soft; 50% clay; 45% fine sand; 5% gravel; non-plastic; high estimated K; strong hydrocarbon odor	
20								CLAY (CH); olive; moist; soft; 100% clay; high plasticity; very low estimated K; strong hydrocarbon odor	
25								Sandy CLAY (CH); olive mottled yellow brown; moist; stiff; 75% clay; 25% fine sand; low plasticity; low estimated K; strong hydrocarbon odor	
30								Sandy SILT (ML); olive mottled yellow brown; wet; soft; 70% silt; 30% fine sand; non-plastic; low estimated K; slight hydrocarbon odor	
								moist; stiff below 17'	
								olive mottled brown and red; 55% silt; 40% fine sand; 5% clay; non plastic; medium estimated K below 18'	
								olive mottled yellow brown; moist; stiff; 70% silt; 30% fine sand; non-plastic; slight hydrocarbon odor; low estimated K below 19.5'	
	olive; soft; wet; strong hydrocarbon odor between 22' and 22.5'								
	no odor below 22.5'								
	End of boring Refusal								

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-E

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hriciga Date Drilled: August 25, 2004 Checked By: Robert E. Kitay, R.G.

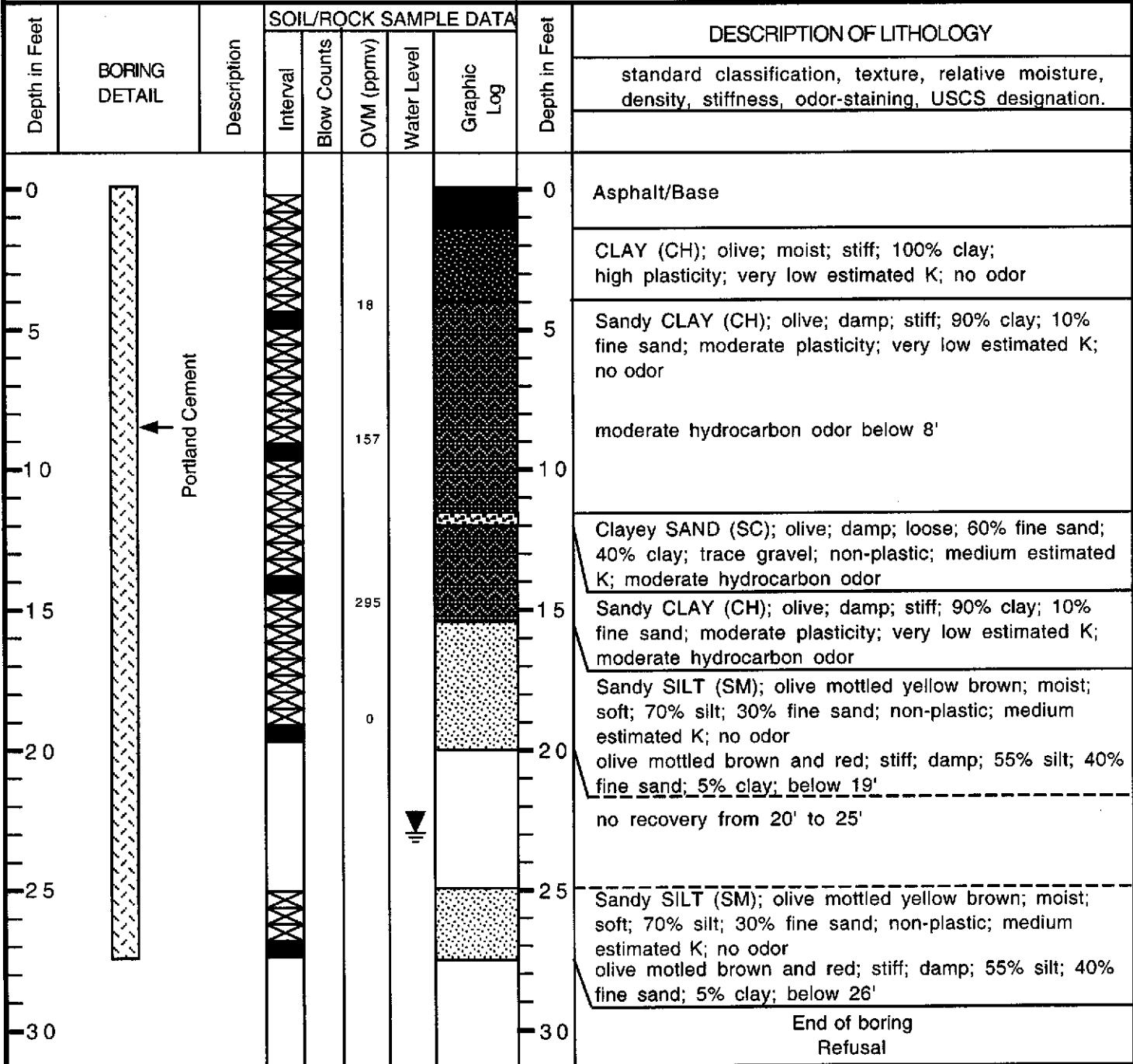
WATER AND WELL DATA
 Total Depth of Well Completed: NA
 Depth of Water First Encountered: 10'
 Well Screen Type and Diameter: NA
 Static Depth of Water in Well: NA
 Well Screen Slot Size: NA
 Total Depth of Boring: 20'
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level		
0							0	Concrete/Base
0-5					0		0-5	Sandy SILT (ML); yellow brown; dry; stiff; 80% silt; 20% fine sand; non-plastic; low estimated K; no odor
5-10		Portland Cement			0		5-10	Sandy CLAY (CH); olive mottled yellow brown; dry; stiff; 80% clay; 15% fine sand; 5% gravel; low plasticity; low estimated K; no odor moist; 90% clay; 10% fine sand below 8'
10-15					0		10-15	Approximately 3" of loose gravel and sand Sandy SILT (ML); olive; moist; medium stiff; 70% silt; 30% fine sand; non-plastic; low estimated K; no odor
15-20					0		15-20	no recovery from 14' to 18'
20-25					0		20-25	Sandy SILT (ML); olive mottled yellow brown; moist; medium stiff; 70% silt; 30% fine sand; non-plastic; low estimated K; no odor Approximately 3" of wet loose gravel and sand
25-30					0		25-30	Sandy SILT (ML); olive mottled brown and red; moist; medium stiff; 55% silt; 40% fine sand; 5% clay; non-plastic; medium estimated K; no odor End of boring Refusal

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-F

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 23, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 23'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 27.5'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-G

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 20, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 23'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 27.5'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		
0								0	Asphalt/Base
5								CLAY (CH); olive; moist; stiff; 100% clay; high plasticity; very low estimated K; no odor	
10								Silty CLAY (CH); olive; damp; stiff; 70% clay; 30% silt; moderate plasticity; very low estimated K; no odor slight to moderate hydrocarbon odor	
15								Approximately 4" of gravel at 14' Sandy SILT (SM); yellow brown; dry; stiff; 70% silt; 25% fine sand; 5% clay; non-plastic; low to medium estimated K; no odor	
20								damp; very stiff below 19' olive mottled yellow brown; 85% silt; 10% fine sand; 5% clay	
25								olive mottled brown and red; 60% silt; 20% fine sand; 15% gravel; 5% clay	
30								End of boring Refusal	

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-H

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hriciga Date Drilled: August 20, 2004 Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA
 Depth of Water First Encountered: 23'
 Static Depth of Water in Well: NA
 Total Depth of Boring: 27.5'
 Total Depth of Well Completed: NA
 Well Screen Type and Diameter: NA
 Well Screen Slot Size: NA
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level		
0							Asphalt/Base	
0-14				0			CLAY (CH); dark olive; moist; stiff; 100% clay; trace gravel; high plasticity; very low estimated K; no odor very stiff	
14-15				0			moderate hydrocarbon odor	
15-18.5				550			Sandy CLAY (CH); olive; damp; stiff; 70% clay; 20% fine sand; 10% gravel; moderate plasticity; moderate hydrocarbon odor; low estimated K 70% clay; 20% fine sand; 10% silt below 14'	
18.5-21.5				0			Sandy SILT (ML); yellow brown; dry; stiff; 70% silt; 25% fine sand; 5% clay; non-plastic; low estimated K; no odor	
21.5-22				0			brown mottled red; moist; 70% silt; 20% fine sand; 5% gravel; 5% clay; medium estimated K below 18.5'	
22-23				0			wet; soft below 21.5'	
23-27.5				0			olive mottled brown and red; moist; stiff below 22'	
30				0				

See next page

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-I

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: August 26, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 25.5'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 28.5'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA				Depth in Feet	DESCRIPTION OF LITHOLOGY	
			Interval	Blow Counts	OVM (ppmv)	Water Level			Graphic Log
0								0	Concrete/Base
5								Sandy SILT (ML); yellow brown; damp; soft; 60% silt 30% fine sand; 5% clay; 5% gravel; non-plastic; medium estimated K; no odor	
10								olive	
15								olive mottled yellow brown;	
16								Approximately 2" of sandy gravel	
17								Approximately 2" of sandy gravel	
18								Approximately 2" of sandy gravel	
20								60% silt; 40% sand; moist	
25								Silty SAND (SM); red brown; moist; loose; 80% sand; 20% silt; non-plastic; high estimated K; no odor moist from 23.5' to 24' wet from 25.5' to 26'	
26								olive mottled yellow brown	
30	Silty CLAY (CH); yellow brown; moist; stiff; 70% clay; 30% silt; moderate palsticity; low estimated K; no odor								
30	End of boring Refusal								

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-J

Project Name: Albany Hill

Project Location: 800 San Pablo Ave, Albany, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter

Logged By: Damian Hriciga

Date Drilled: August 24, 2004

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 25'

Total Depth of Well Completed: NA

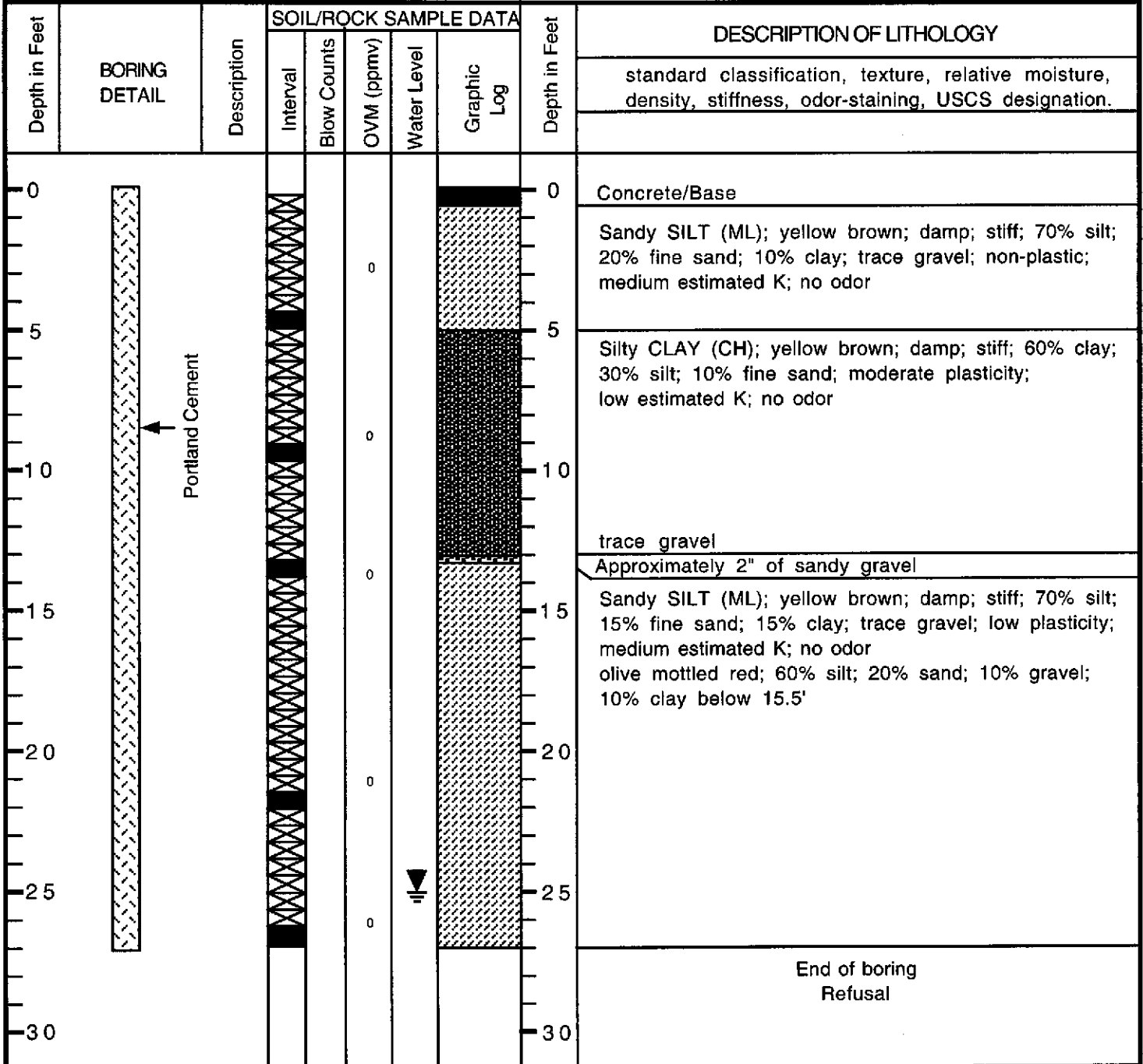
Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 27'

Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler



End of boring
Refusal

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-K

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hriciga Date Drilled: August 26, 2004 Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA
 Depth of Water First Encountered: 25'
 Static Depth of Water in Well: NA
 Total Depth of Boring: 28.5'
 Total Depth of Well Completed: NA
 Well Screen Type and Diameter: NA
 Well Screen Slot Size: NA
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		
0								Concrete/Base	
0-5					0			Sandy SILT (ML); yellow brown; damp; stiff; 70% silt; 20% fine sand; 10% clay; trace gravel; non-plastic; medium estimated K; no odor	
5-10					0			Silty CLAY (CH); yellow brown; damp; stiff; 60% clay; 30% silt; 10% fine sand; moderate plasticity; low estimated K; no odor	
10-15					0			Clayey SILT (ML); olive mottled red; moist; medium stiff; 70% silt; 20% clay; 10% fine sand; non-plastic; low estimated K; no odor	
15-20					0			olive below 20'	
20-25					0			Sandy SILT (ML); olive mottled red; damp; stiff; 60-70% silt; 20-30% fine sand; 0-10% clay; trace gravel; low plasticity; medium estimated K; no odor	
25					0			End of boring Refusal	

Portland Cement



SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-L

Project Name: Albany Hill Project Location: 800 San Pablo Ave, Albany, CA Page 1 of 1
 Driller: Vironex Type of Rig: Geoprobe Size of Drill: 2.0" Diameter
 Logged By: Damian Hrciga Date Drilled: August 27, 2004 Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA
 Total Depth of Well Completed: NA
 Depth of Water First Encountered: 25'
 Well Screen Type and Diameter: NA
 Static Depth of Water in Well: NA
 Well Screen Slot Size: NA
 Total Depth of Boring: 27'
 Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0								Concrete/Base	
0 - 4					0			Sandy SILT (ML); yellow brown; damp; stiff; 70% silt; 20% fine sand; 10% clay; trace gravel; non-plastic; medium estimated K; no odor	
4 - 7					0			Silty SAND (SM); dry; loose; 60% sand; 20% silt; 20% gravel; high estimated K; no odor	
7 - 14					0			Silty CLAY (CH); yellow brown; damp; stiff; 60% clay; 30% silt; 10% fine sand; moderate plasticity; low estimated K; no odor	
14 - 20					0			Sandy SILT (ML); yellow brown; damp; stiff; 70% silt; 15% fine sand; 15% clay; trace gravel; low plasticity; medium estimated K; no odor	
20 - 25					0			brown mottled red; moist; 70% silt; 20% fine sand; 5% gravel; 5% clay; medium estimated K	
25 - 27					0			Silty SAND (SM); moist; loose; 60% sand; 20% silt; 20% gravel; high estimated K; no odor	
27 - 30								End of boring Refusal	

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-M

Project Name: Albany Hill

Project Location: 800 San Pablo Ave, Albany, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter

Logged By: Damian Hriciga

Date Drilled: September 9, 2004

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 25'

Total Depth of Well Completed: NA

Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 27'

Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		
0								Concrete/Base	
0 - 5					0			Silty CLAY (CL); olive mottled brown; damp; medium stiff; 70% clay; 15% silt; 15% fine sand; low plasticity; low estimated K; no odor	
5 - 10					0			Clayey SILT (ML); olive mottled brown; damp; stiff; 65% silt; 20% clay; 10% fine sand; 5% gravel; low plasticity; low estimated K; no odor	
10 - 15					14			slight hydrocarbon odor	
15 - 20					430			Sandy CLAY (CL); olive mottled brown and red; moist; stiff; 60% clay; 30% fine sand; 10% silt; moderate plasticity; low to medium estimated K; moderate hydrocarbon odor	
20 - 25					0.7			Sandy SILT (ML); olive mottle brown and red; dry; stiff; 60% silt; 35% fine sand; 5% gravel; non-plastic; medium estimated K; no odor	
25 - 27					0			moist below 21' 60% silt; 35% sand; 5% clay	
27					0			End of boring	

Portland Cement

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS

BORING: BH-N

Project Name: Albany Hill

Project Location: 800 San Pablo Ave, Albany, CA

Page 1 of 1

Driller: Vironex

Type of Rig: Geoprobe

Size of Drill: 2.0" Diameter

Logged By: Damian Hriciga

Date Drilled: September 15, 2004

Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA

Depth of Water First Encountered: 23'

Total Depth of Well Completed: NA

Well Screen Type and Diameter: NA

Static Depth of Water in Well: NA

Well Screen Slot Size: NA

Total Depth of Boring: 27.5'

Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

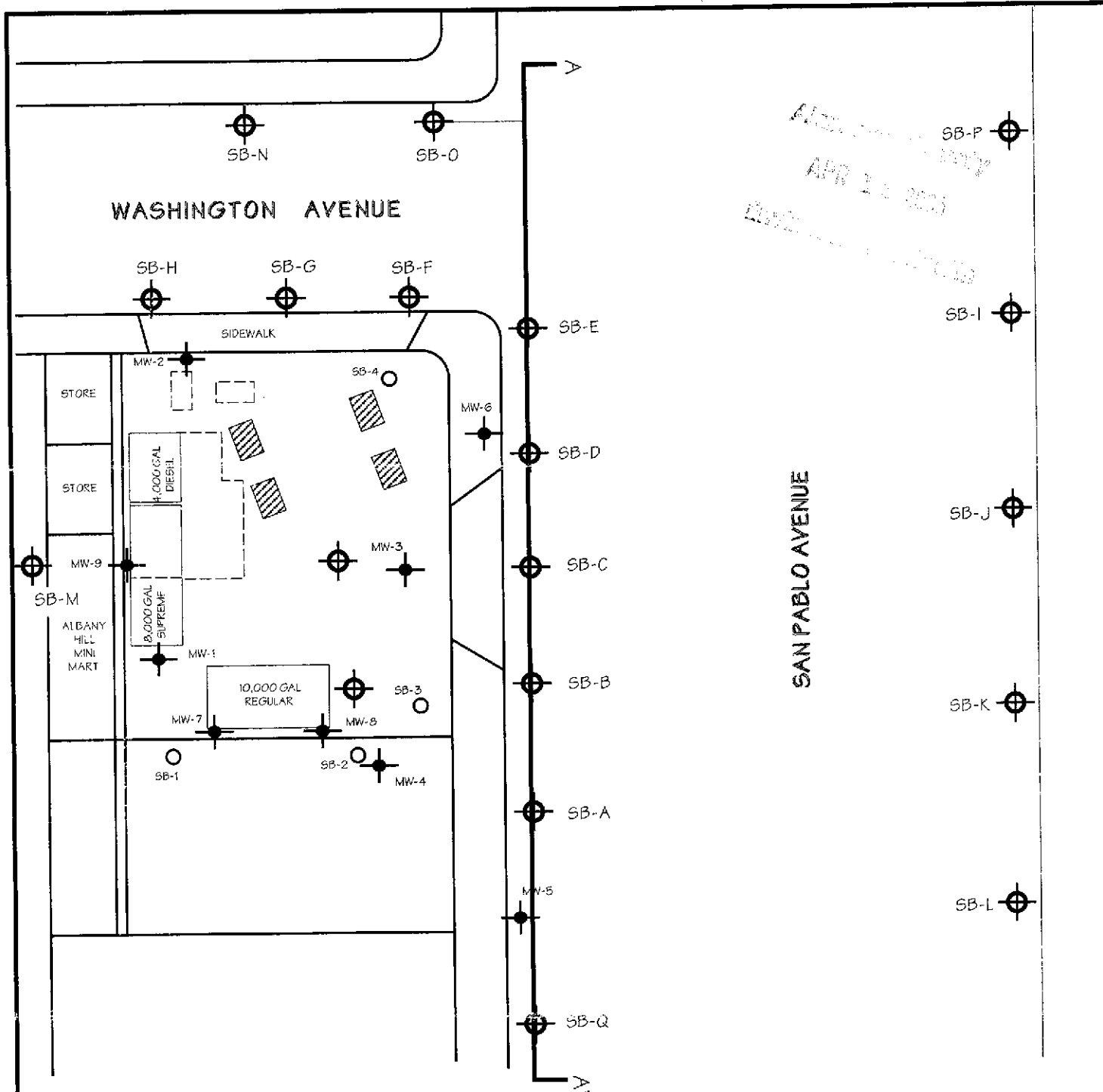
Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		standard classification, texture, relative moisture, density, stiffness, odor-staining, USCS designation.
0	<p>Portland Cement</p>		0 - 1.6		1.6		0 - 1.6	Asphalt/Base	
5			1.6 - 4.39		439		1.6 - 4.39	Silty CLAY (CH); olive; moist; stiff; 70% clay; 30% silt; trace gravel; moderate plasticity; very low estimated K; no odor	
10			4.39 - 8.09		809		4.39 - 8.09	slight hydrocarbon odor	
15			8.09 - 12.0		0		8.09 - 12.0	Sandy SILT (ML); olive; damp; stiff; 70% silt; 20% fine sand; 10% clay; non-plastic; low estimated K; slight hydrocarbon odor	
20			12.0 - 17.0		0		12.0 - 17.0	Silty SAND (SM); yellow brown; damp; loose; 60% sand; 40% silt; medium estimated K; no odor wet	
25	17.0 - 27.5	0	17.0 - 27.5	6.2	25	Sandy SILT (ML); olive mottled yellow brown; moist; soft; 70% silt; 25% fine sand; 5% clay; non-plastic; low estimated K; no odor			
30				0		30			

SOIL BORING LOG AND MONITORING WELL COMPLETION DETAILS BORING: BH-O

Project Name: Albany Hill	Project Location: 800 San Pablo Ave, Albany, CA	Page 1 of 1
Driller: Vironex	Type of Rig: Geoprobe	Size of Drill: 2.0" Diameter
Logged By: Damian Hriciga	Date Drilled: September 15, 2004	Checked By: Robert E. Kitay, R.G.

WATER AND WELL DATA	Total Depth of Well Completed: NA
Depth of Water First Encountered: 24'	Well Screen Type and Diameter: NA
Static Depth of Water in Well: NA	Well Screen Slot Size: NA
Total Depth of Boring: 27'	Type and Size of Soil Sampler: 2.0" I.D. Macro Sampler

Depth in Feet	BORING DETAIL	Description	SOIL/ROCK SAMPLE DATA					Depth in Feet	DESCRIPTION OF LITHOLOGY
			Interval	Blow Counts	OVM (ppmv)	Water Level	Graphic Log		
0								Asphalt/Base	
0-5					0			Silty CLAY (CH); yellow brown; damp; very stiff; 80% clay; 20% silt; trace gravel; low plasticity; very low estimated K; no odor	
5-10					134			Clayey SAND (SC); yellow brown; damp; loose; 60% fine sand; 30% clay; 10% silt; non-plastic; medium estimated K; slight hydrocarbon odor	
10-15					0				
15-20					0			Sandy SILT (ML); olive mottled yellow brown; moist; stiff; 70% silt; 30% fine sand; non-plastic; low estimated K; no odor	
20-25					0			Approximately 3" of gravel	
25-30					0			Sandy SILT (ML); olive mottled yellow brown; moist; soft; 70% silt; 30% fine sand; non-plastic; low estimated K; no odor	
30								End of boring Refusal	



LEGEND

MW-2		MONITORING WELL	
SB-2		SOIL BORING	
SB-A		ASE ADVANCED SOIL BORING	

NORTH

SCALE: 1" = 20'

**CROSS-SECTION
LOCATION MAP**

ALBANY HILL MINI MART
800 SAN PABLO AVENUE
ALBANY, CALIFORNIA

AQUA SCIENCE ENGINEERS	Figure 4
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