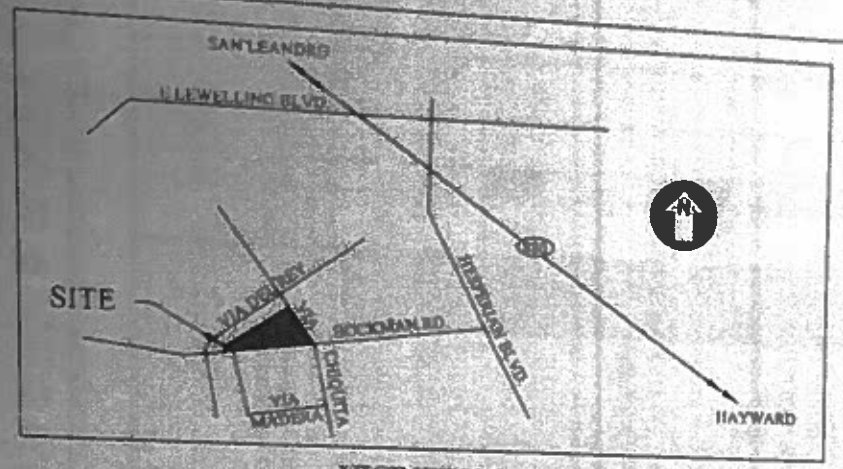
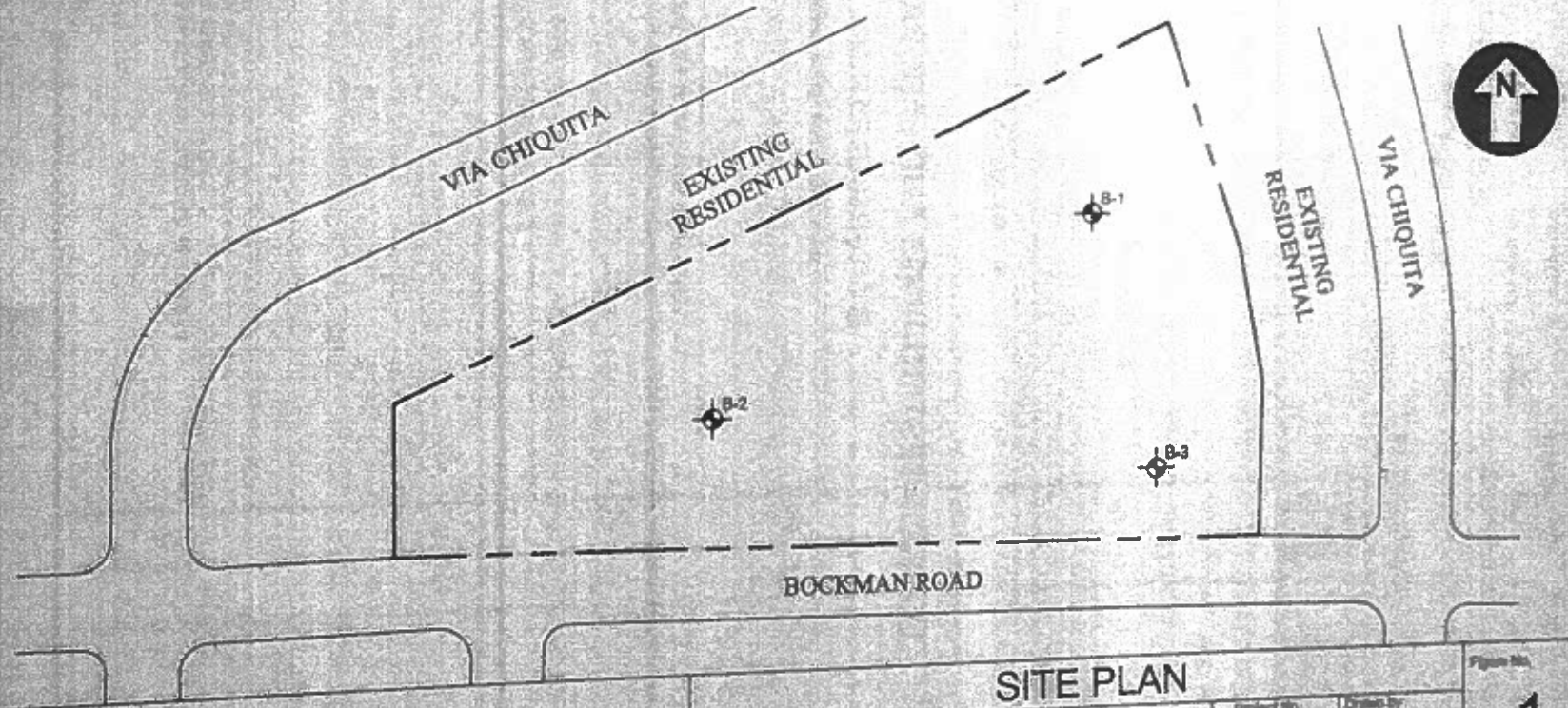


VICINITY MAP
(NTS)

LEGEND

Property Line

B-3 Approximate Boring Location



SITE PLAN

OLSON COMPANY
BOCKMAN ROAD
SAN LORENZO, CALIFORNIA

Project No. 10520.G
Drawn By E.PACREM
Scale: NTS
Date: 11/2004
Figure No. 1

GEOTECHNICAL ENGINEERS AND GEOLOGISTS
TERRASEARCH INC.
257 WRIGHT BROTHERS AVENUE, LIVERMORE, CALIFORNIA 94551 PHONE: (925) 245-8932

BOREHOLE LOG

Location: NA
Date Drilled - Start: 12/23/2004
Drill Rig: B3500
Hammer:
Boring Backfill Method: Native

Elevation: NA
Finished: 12/23/2004
Logged By: K. Pollak
Drilling Method: Solid Flight
Drilling Contractor: Pacific Drilling

Boring No.: B1
Sheet 1 of 1
Total Depth of Boring: 30 ft.

DRILLING DETAILS	DEPTH	SAMPLE No.	SAMPLER TYPE	BLOW COUNT	GRAPHIC LOG	MATERIAL DESCRIPTION	LAB TESTS: DRY DENSITY (pcf)	LAB TESTS: MOISTURE CONTENT (%)	OTHER NOTES REMARKS
Solid Flight	0					2.0" AC / 2.25" Sand and Gravel / 5.0" clayey Sand and Gravel			
		1-1		16		CLAY (CL) some caliche, black, stiff, damp	100	23	PI = 39, LL = 58
	5	1-2		15		Silty CLAY (CL-ML) some caliche, green mouled orange, stiff, damp	107	19	
						CLAY (CL), olive green, stiff, moist, plastic,	101	23	
	10	1-3		16					
						Sandy CLAY (CLS), slightly orange brown, stiff, moist,	100	25	
	15	1-4		13					
						Decrease in sand content @ 18.0' below ground surface (bgs).			
	20	1-5		15			105	22	
						Silty CLAY (CL-ML), light olive green, firm, moist.			
	25	1-6		9			93	29	
	30					Boring terminated @ 30.0' (bgs). Groundwater encountered @ 11.0' (bgs), stabilized @ 8.5' (bgs).			

BOREHOLE LOG 10520.G GPJ TERRASEARCH.GDT 1/28/05

GEOTECHNICAL ENGINEERS AND GEOLOGISTS
TERRASEARCH INC.
257 Wright Brothers Ave. Livermore, Ca. 94551 Phone (925) 243-8882

Olson Company
Bockman Road
San Lorenzo, California

Figure No. 2

Date:	Drawn by:	Project No:	Reviewed By:
12/30/2004	E. Pilonen	10520.G	S. Makdesi

BOREHOLE LOG

Location: NA
Date Drilled - Start: 12/23/2004
Drill Rig: B1500
Hammer:
Boring Backfill Method: Native

Elevation: NA
Finished: 12/23/2004
Logged By: R. Pollak
Drilling Method: Solid Flight
Drilling Contractor: Pacific Drilling

Boring No.: B-2
Sheet 1 of 1
Total Depth of Boring: 25 ft.

GROUND WATER	DEPTH	SAMPLE No.	SAMPLE TYPE	BLOW COUNT	GRAPHIC LOG	MATERIAL DESCRIPTION	LAB TESTS: DRY DENSITY	LAB TESTS: MOISTURE CONTENT	OTHER NOTES REMARKS
						2.5" AC / 5.0" Sand and Gravel			
		1		9		CLAY (CL) some calcite, black, stiff, damp	96	24	
	5	2		12		CLAY (CH) some calcite, olive green, stiff, moist, plastic	105	20	
	10	3		15		Sandy CLAY (CLS), light olive brown, stiff, moist	104	22	
	15	4		8		Sandy CLAY (CLS), slightly orange brown, firm, moist	97	28	
	20	5		15		Silty CLAY (CL-ML), light to medium brown, stiff, moist	100	25	
	25					Boring terminated @ 25.0' below ground surface (bgs). Groundwater encountered @ 7.0' (bgs).			

BOREHOLE LOG 10520 G.GPJ TERRASEARCH.GDT 1/19/05

GEOTECHNICAL ENGINEERS AND GEOLOGISTS
TERRASEARCH INC
257 Wright Brothers Ave. Livermore, Ca. 94551 Phone (925) 245-6668

Olson Company
Bookman Road
San Lorenzo, California

Figure No.
3

Date	Drawn by	Project No.	Reviewed By
12/30/2004	E. Pikrom	10520 G	S. Mikdessi

BOREHOLE LOG

Location: NA

Elevation: NA

Boring No.: B-3

Date Drilled - Start: 12/23/2004

Finished: 12/23/2004

Logged By: R. Pollak

Sheet 1 of 1

Drill Rig: B3500

Drilling Method: Solid Flight

Hammer:

Drilling Contractor: Pacific Drilling

Boring Backfill Method: Native

Total Depth of Boring: 20 ft.

DRILLING DETAILS	DEPTH	SAMPLE No.	SAMPLER TYPE	BLOW COUNT	GRAPHIC LOG	MATERIAL DESCRIPTION	LAB TESTS: DRY DENSITY (pcf)	LAB TESTS: MOISTURE CONTENT (%)	OTHER NOTES REMARKS
Solid Flight	0					4.5" AC / 4.0" Sand and Gravel			
						CLAY (CL), black, stiff, damp			
		3-1		14			99	23	
	5								
		3-2		7		CLAY (CL), olive green, firm to stiff, moist	104	20	
	10	3-3		10					
						Sandy CLAY (CLS), olive green, stiff, moist			
	15	3-4		13			97	26	
	20								

Boring terminated @ 20.0' below ground surface (bgs).
Groundwater encountered @ 8.0' (bgs).

BOREHOLE LOG 10520.G.GPJ TERRASEARCH.GDT 1/26/05

GEOTECHNICAL ENGINEERS AND GEOLOGISTS

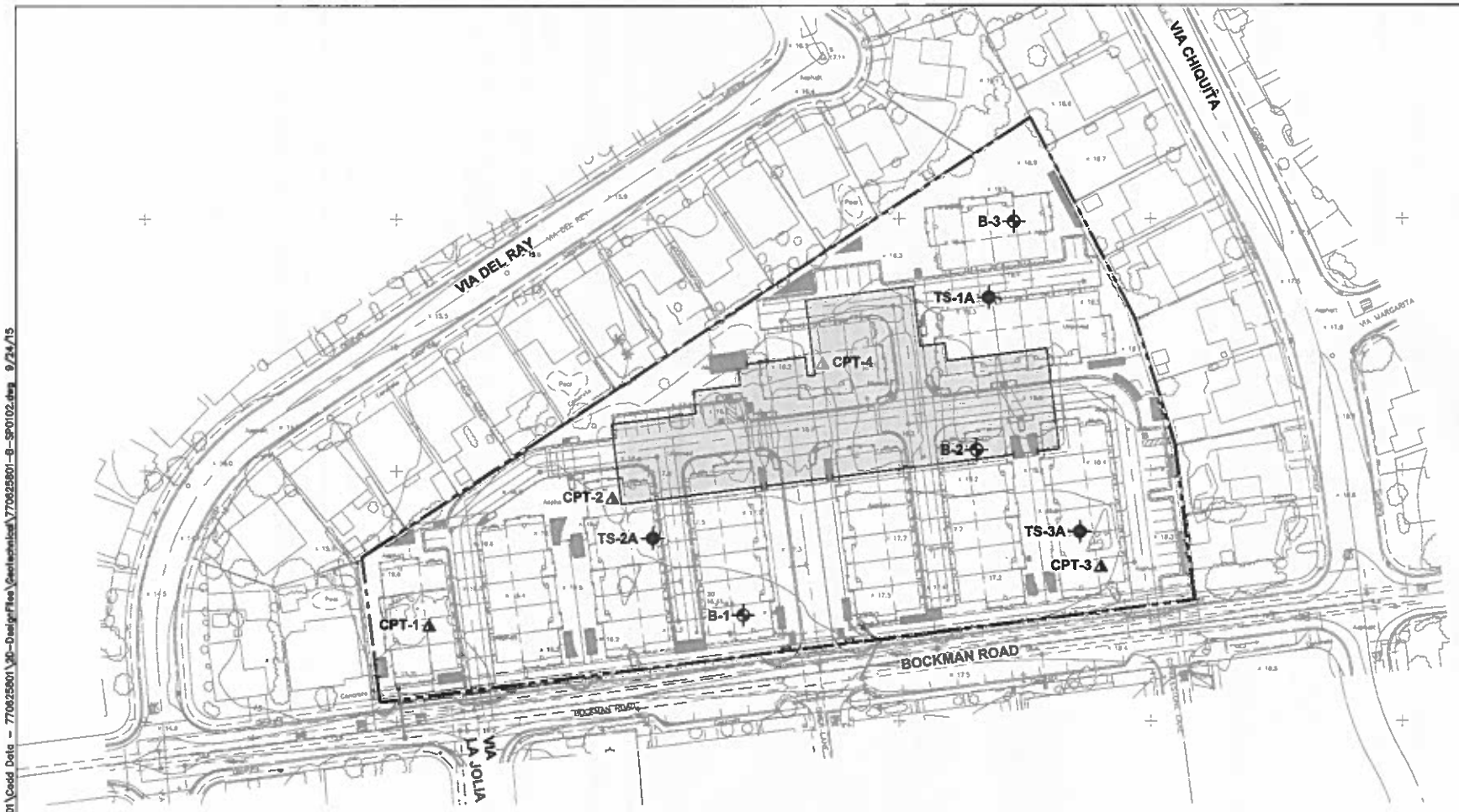
TERRASEARCH INC.

257 Wright Brothers Ave, Livermore, Ca. 94551 Phone (925) 245-8862

Olson Company
Bookman Road
San Lorenzo, California

Figure No. 4

Date	Drawn by	Project No.	Reviewed By
12/30/2004	E. Pangan	10520.G	S. Makdisi



EXPLANATION

- B-1 — Approximate location of boring by Langan Treadwell Rollo, August 2015
- CPT-1 — Approximate location of Cone Penetration Test, by Langan Treadwell Rollo, August 2015
- TS-1A — Approximate location of boring by Terrasearch, December 2004
- Approximate limits of proposed development
- Approximate footprint of previous building (demolished)

N

0 80 Feet

Approximate scale

Reference: Base map from a electronic file titled "ACAD2010-151072-BASE.dwg," received on 09/15/15, and "Bockman Road," by Tetra Tech dated 06/11/15.

1233 BOCKMAN ROAD
San Lorenzo, California

SITE PLAN

Date 08/18/15 | Project No. 770625801 | Figure 2

LANGAN TREADWELL ROLLO

PROJECT:	1233 BOCKMAN ROAD San Lorenzo, California	**Log of Boring B-1**	PAGE 1 OF 2

Boring location:	See Site Plan, Figure 2	Logged by:	R. Ward
Date started:	8/14/15	Date finished:	8/14/15
Drilling method:	Hollow Stem Auger (B40 rig)		
Hammer weight/drop:	140 lbs./30 inches	Hammer type:	Safety Downhole Wireline
Samplers:	Sprague & Henwood (S&H)		

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: 16.6 feet[2]						
						2 inches asphalt concrete (AC)						
						5 inches aggregate base (AB)						
1	BULK				CH	CLAY (CH) black, very stiff, moist, with some sand R-Value Test, see Figure D-7	PP		3,800		25.3	98
2												
3	S&H		5 7 9	6								
4	BULK											
5					CL-ML	CLAYEY SILT with SAND (CL-ML) yellow-brown, medium stiff, moist, fine sand, trace fine gravel Hydrometer Analysis, see Figure D-2				71		
6	S&H		5 5 6	4								
7												
8	S&H		5 4 6	4		CLAY with SAND (CL) olive-brown, medium stiff, moist to wet, fine sand Triaxial Test, see Figure D-4	TxUU	1,050	830		23.4	101
9												
10	S&H		7 8 8	6								
11												
12												
13					CL	▽ (08/14/15, 8:00 a.m.)						
14												
15	S&H		9 12 13	10		stiff Consolidation Test, see Figure D-1					19.8	107
16												
17												
18												
19					CL	CLAY (CL) yellow-brown, hard, wet, trace fine sand	PP		5,000			
20	S&H		6 10 12	9								
21												
22												
23												
24					SC	SAND with CLAY (SC) olive-gray, wet						
25	S&H		7 9 8	7								
26					CL	CLAY (CL) olive-gray, medium stiff, wet				87.3	31.5	
27												
28												
29					CL	SANDY CLAY (CL) gray-brown, stiff, wet						
30												

LANGAN TREADWELL ROLLO

Project No.:	Figure:
770625801	B-1a

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

PROJECT: 1233 BOCKMAN ROAD
San Lorenzo, California

Log of Boring B-1

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
							LABORATORY TEST DATA					
31	S&H		12 14 15	12	CL	SANDY CLAY (CL) (continued) occasional weak cementation						
32												
33												
34						SANDY CLAY (CL) olive-gray, medium stiff, wet						
35			5									
36	S&H		6 6	5								
37					CL							
38												
39	S&H		7 7 11	7		stiff	PP		2,000			
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

Boring terminated at a depth of 40 feet below ground surface.
Boring backfilled with cement grout under the observation of ACPWA.
Groundwater encountered at 13.4 feet below ground surface during drilling.
PP = pocket penetrometer.

[1] S&H blow counts for the last two increments were converted to SPT N-Values using a factor of 0.4, to account for sampler type and hammer energy.
[2] Elevations based on NAVD 88 Datum.

LANGAN TREADWELL ROLLO

Project No.: 770625801
Figure: B-1b

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

PROJECT: 1233 BOCKMAN ROAD
San Lorenzo, California

Log of Boring B-2

Boring location: See Site Plan, Figure 2
Logged by: R. Ward
Date started: 8/14/15 Date finished: 8/14/15
Drilling method: Hollow Stem Auger (B40 rig)
Hammer weight/drop: 140 lbs./30 inches Hammer type: Safety Downhole Wireline
Samplers: Sprague & Henwood (S&H)

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						Ground Surface Elevation: 18 feet[2]						
0						2 inches topsoil						
1					CH	SANDY CLAY (CH) black, moist, fine sand, with some gravel						
2												
3	S&H		6 7 8	6	CL	CLAY with SAND (CL) dark gray, hard, moist	PP		8,000			
4						grades with increasing sand content						
5												
6	S&H		4 8 7	6	SP	SAND (SP) olive-gray, loose, moist, fine-grained, trace silt						
7												
8	S&H		3 4 7	4	CL	CLAY with SAND (CL) olive-gray, stiff, moist, fine sand	PP		2,500			
9												
10												
11	S&H		5 7 7	6								
12												
13												
14						SANDY CLAY (CL) gray-brown, medium stiff, wet, fine sand						
15												
16	S&H		4 5 5	4							25.0	
17												
18												
19												
20					CL							
21	S&H		5 6 6	5								
22												
23												
24												
25												
26	S&H		5 7 10	7		CLAY (CL) gray, medium stiff, wet	PP		1,000			
27					CL							
28												
29					CL							
30												

LANGAN TREADWELL ROLLO

Project No.: 770625801
Figure: B-2a

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

PROJECT: 1233 BOCKMAN ROAD
San Lorenzo, California

Log of Boring B-2

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	S&H		5 9 18	11		SANDY CLAY (CL) gray to light gray, hard, wet, fine sand, occasional weak cementation	PP		5,500			
32												
33												
34					CL							
35			4			medium stiff						
36	S&H		6 11	7								
37												
38						CLAY with SAND (CL) olive-gray, stiff, wet, fine sand						
39	S&H		6 9 12	8	CL							
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												
55												
56												
57												
58												
59												
60												

LABORATORY TEST DATA

Boring terminated at a depth of 40 feet below ground surface.
Boring backfilled with cement grout.
Groundwater not encountered during drilling.
PP = pocket penetrometer

[1] S&H blow counts for the last two increments were converted to SPT N-Values using a factor of 0.4, to account for sampler type and hammer energy.
[2] Elevations based on NAVD 88 Datum.

LANGAN TREADWELL ROLLO

Project No.: 770625801
Figure: B-2b

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

PROJECT: 1233 BOCKMAN ROAD
San Lorenzo, California

Log of Boring B-3

Boring location: See Site Plan, Figure 2 | Logged by: R. Ward

Date started: 8/14/15 | Date finished: 8/14/15

Drilling method: Hollow Stem Auger (B40 rig)

Hammer weight/drop: 140 lbs./30 inches | Hammer type: Safety Downhole Wireline

Samplers: Sprague & Henwood (S&H)

Ground Surface Elevation: 18.5 feet[2]

DEPTH (feet)	Sampler Type	Sample	Blows/ 6"	SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
						6 inches topsoil						
1	BULK				CH	CLAY (CH) black, hard, moist, with silt, trace fine sand Hydrometer Analysis, see Figure D-3						
2												
3	S&H		7 8 10	7		Triaxial Test, see Figure D-5	PP TxUU	 500	5,000 3,690	 90	 18.1	 98
4	BULK					stiff						
5					CL	SANDY CLAY (CL) gray-brown, very stiff, moist, fine sand						
6	S&H		10 12 18	12			PP		3,000			
7												
8	S&H		4 5 8	5	CH	CLAY (CH) gray-brown, medium stiff, moist LL = 52, PI = 29, see Figure D-6					30.4	92
9												
10					CL	CLAY with SAND (CL) olive-gray, very stiff, moist, fine sand						
11	S&H		6 7 10	7			PP		3,500			
12						SANDY CLAY (CL) olive, stiff, wet, fine sand						
13												
14						▽ (08/14/15, 1:25 p.m.)						
15					CL							
16	S&H		5 8 12	8		hard	PP		8,500			
17												
18												
19					CL	CLAY (CL) olive, hard, wet						
20												
21	S&H		5 6 8	6			PP		5,000			
22												
23												
24					CL-ML	SILTY CLAY (CL-ML) brown, medium stiff, wet						
25												
26	S&H		3 5 7	5		LL = 31, PI = 8, see Figure D-6	PP		500	91	30.4	92
27												
28												
29					CL	SANDY CLAY (CL) gray-brown, medium stiff, wet, fine sand						
30												

LABORATORY TEST DATA

LANGAN TREADWELL ROLLO

Project No.: 770625801 | Figure: B-3a

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

PROJECT: 1233 BOCKMAN ROAD
San Lorenzo, California

Log of Boring B-3

DEPTH (feet)	SAMPLES: Sampler Type	SAMPLES: Sample	SAMPLES: Blows/ 6"	SAMPLES: SPT N-Value[1]	LITHOLOGY	MATERIAL DESCRIPTION	LABORATORY TEST DATA: Type of Strength Test	Confining Pressure Lbs/Sq Ft	Shear Strength Lbs/Sq Ft	Fines %	Natural Moisture Content, %	Dry Density Lbs/Cu Ft
31	S&H		4 6 11	7	CL	SANDY CLAY (CL) (continued) occasional strong cementation						
32												
33												
34	S&H		18 19 23	17		hard, trace coarse sand	PP		5,500			
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
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58												
59												
60												

Boring terminated at a depth of 35 feet below ground surface.
Boring backfilled with cement grout.
Groundwater encountered at 13.8 feet below ground surface during drilling.
PP = pocket penetrometer.

[1] S&H blow counts for the last two increments were converted to SPT N-Values using a factor of 0.4, to account for sampler type and hammer energy.
[2] Elevations based on NAVD 88 Datum.

LANGAN TREADWELL ROLLO

Project No.: 770625801
Figure: B-3b

TEST GEOTECH LOG 770625801.GPJ TR.GDT 10/1/15

UNIFIED SOIL CLASSIFICATION SYSTEM

Major Divisions		Symbols	Typical Names
Coarse-Grained Soils (more than half of soil > no. 200 sieve size)	Gravels (More than half of coarse fraction > no. 4 sieve size)	GW	Well-graded gravels or gravel-sand mixtures, little or no fines
		GP	Poorly-graded gravels or gravel-sand mixtures, little or no fines
		GM	Silty gravels, gravel-sand-silt mixtures
		GC	Clayey gravels, gravel-sand-clay mixtures
	Sands (More than half of coarse fraction < no. 4 sieve size)	SW	Well-graded sands or gravelly sands, little or no fines
		SP	Poorly-graded sands or gravelly sands, little or no fines
		SM	Silty sands, sand-silt mixtures
		SC	Clayey sands, sand-clay mixtures
Fine -Grained Soils (more than half of soil < no. 200 sieve size)	Silts and Clays LL = < 50	ML	Inorganic silts and clayey silts of low plasticity, sandy silts, gravelly silts
		CL	Inorganic clays of low to medium plasticity, gravelly clays, sandy clays, lean clays
		OL	Organic silts and organic silt-clays of low plasticity
	Silts and Clays LL = > 50	MH	Inorganic silts of high plasticity
		CH	Inorganic clays of high plasticity, fat clays
		OH	Organic silts and clays of high plasticity
Highly Organic Soils		PT	Peat and other highly organic soils

GRAIN SIZE CHART

Classification	Range of Grain Sizes	
	U.S. Standard Sieve Size	Grain Size in Millimeters
Boulders	Above 12"	Above 305
Cobbles	12" to 3"	305 to 76.2
Gravel	3" to No. 4	76.2 to 4.76
coarse	3" to 3/4"	76.2 to 19.1
fine	3/4" to No. 4	19.1 to 4.76
Sand	No. 4 to No. 200	4.76 to 0.075
coarse	No. 4 to No. 10	4.76 to 2.00
medium	No. 10 to No. 40	2.00 to 0.420
fine	No. 40 to No. 200	0.420 to 0.075
Silt and Clay	Below No. 200	Below 0.075

Unstabilized groundwater level

Stabilized groundwater level

SAMPLE DESIGNATIONS/SYMBOLS

Sample taken with Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter. Darkened area indicates soil recovered

Classification sample taken with Standard Penetration Test sampler

Undisturbed sample taken with thin-walled tube

Disturbed sample

Sampling attempted with no recovery

Core sample

Analytical laboratory sample

Sample taken with Direct Push or Drive sampler

SAMPLER TYPE

C Core barrel

CA California split-barrel sampler with 2.5-inch outside diameter and a 1.93-inch inside diameter

D&M Dames & Moore piston sampler using 2.5-inch outside diameter, thin-walled tube

O Osterberg piston sampler using 3.0-inch outside diameter, thin-walled Shelby tube

PT Pitcher tube sampler using 3.0-inch outside diameter, thin-walled Shelby tube

S&H Sprague & Henwood split-barrel sampler with a 3.0-inch outside diameter and a 2.43-inch inside diameter

SPT Standard Penetration Test (SPT) split-barrel sampler with a 2.0-inch outside diameter and a 1.5-inch inside diameter

ST Shelby Tube (3.0-inch outside diameter, thin-walled tube) advanced with hydraulic pressure

1233 BOCKMAN ROAD
San Lorenzo, California

LANGAN TREADWELL ROLLO

CLASSIFICATION CHART

Date 08/18/15 | Project No. 770625801 | Figure B-4