

Detterman, Mark, Env. Health

From: Bob Clark-Riddell [briddell@pangeaenv.com]
Sent: Thursday, March 10, 2016 3:57 PM
To: Detterman, Mark, Env. Health
Subject: 4901 Broadway
Attachments: Pit Soil Borings 1.27.16.pdf

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DAILY LOG

Date: 1-27-16	Site Address: 4901 Broadway
Task/Purpose: Soil Sampling	Project Name:
Log Notes By: E. Lervaag	Project Number: 1740.001

NOTES

10⁰⁰ ARRIVE on-site set up for soil sampling
- sample 4 locations at 1', 3', 5' and 8' below grade
- see map for locations

* Sample location PB-1

- surface layer of mud \approx 3"

3"-3' light brown clay with trace sand

3'-6' gray clay

6-7' reddish brown clay/silt with sand

7' hit layer of large gravel, unable to Hand Auger

through. collected samples at 1', 3', 5', 7' bgs.

- Installed temp well consisting of 5' screen + blank to surface

- 2/12 sand to top of screen

- bentonite crumbles to surface

* Location PB-2

- 3" mud

3"-3' brown clay

3'-6' gray clay

6-7' reddish brown clay w/ trace sand

7' bgs layer of gravel similar to PB-1, unable to penetrate.

- collected samples at 1', 3', 5', 7' bgs

- Installed temp well, same as PB-1



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NOTES

<p>- PB-3</p> <ul style="list-style-type: none">- surface mod.3"-2.5' brown clay with trace sand2.5-5.5 gray clay5.5-7 reddish brown clay7-8 large gravel/sand <ul style="list-style-type: none">- collected soil samples at 1', 3', 5', 8' bgs- Installed temp well similar to PB-1
<p>- PB-4</p> <ul style="list-style-type: none">- surface mod3"-3' brown clay w/ trace sand3-5.5' gray clay5.5-7' red brown clay7' gravel layer, large gravel, unable to penetrate. <ul style="list-style-type: none">- collected samples at 1', 3', 5', 7' bgs- Installed Temp well similar to PB-1
<p>S¹⁵ off-site to lab.</p>



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BORING NUMBER P

PB-1

CLIENT _____	PROJECT NAME <u>4901 Broadway</u>
PROJECT NUMBER <u>1740.001</u>	PROJECT LOCATION <u>4901 Broadway, Oakland</u>
DATE STARTED <u>1.27.16</u> COMPLETED <u>1.27.16</u>	GROUND ELEVATION _____ HOLE SIZE <u>3.5"</u>
DRILLING CONTRACTOR <u>Pangea</u>	GROUND WATER LEVELS:
DRILLING METHOD <u>Hand Auger</u>	AT TIME OF DRILLING <u>---</u>
LOGGED BY <u>E. Lervaag</u> CHECKED BY _____	AT END OF DRILLING <u>---</u>
NOTES _____	AFTER DRILLING <u>---</u>

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					mud	
	PB-1-1'				Light brown clay with trace sand.	PVC Blank
	PB-1-3'					Bentonite
5	PB-1-5'				gray clay	5' slotted screen
	PB-1-7'				reddish brown clay with sand	2/12 sand
					Terminated 7.0 bgs at gravel layer	3.5" borehole
10						
15						
20						

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BORING NUMBER
 PB-2 PAGE 1 OF 1

CLIENT _____ PROJECT NAME _____
 PROJECT NUMBER 1740.001 PROJECT LOCATION 4901 Broadway, Oakland
 DATE STARTED 1-27-16 COMPLETED 1-27-16 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Pangea GROUND WATER LEVELS:
 DRILLING METHOD Hand Auger AT TIME OF DRILLING ---
 LOGGED BY E. Lervog CHECKED BY _____ AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					mud	
	PB-2-1'				Brown clay	PVC Blank
	PB-2-3'				-3	Bentonite
	PB-2-5'				Gray clay	5' slotted screen
	PB-2-7'				reddish brown clay w/ trace sand	2/12 sand
					-7' boring terminated at gravel layer	3.5" borehole
10						
15						
20						

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BORING NUMBER
PB-3 PAGE 1 OF 1

CLIENT _____ PROJECT NAME _____
 PROJECT NUMBER 1740.001 PROJECT LOCATION 4901 Broadway, Oakland
 DATE STARTED 1.27.16 COMPLETED 1.27.16 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Pangea GROUND WATER LEVELS:
 DRILLING METHOD Hand Auger AT TIME OF DRILLING ---
 LOGGED BY E. Lervog CHECKED BY _____ AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					mud	
	PB-3-1'				Brown clay with trace sand	pvc blank
						Bentonite crumbles
	PB-3-3'				gray clay	
5						5' slotted screen
	PB-3-5'				reddish brown clay	
						2/12 sand
					yellowish sand with large gravel	
	PB-3-8'				yellow sand - Boring terminated 8' bgs	
10						
15						
20						

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BORING NUMBER _____

PB-4

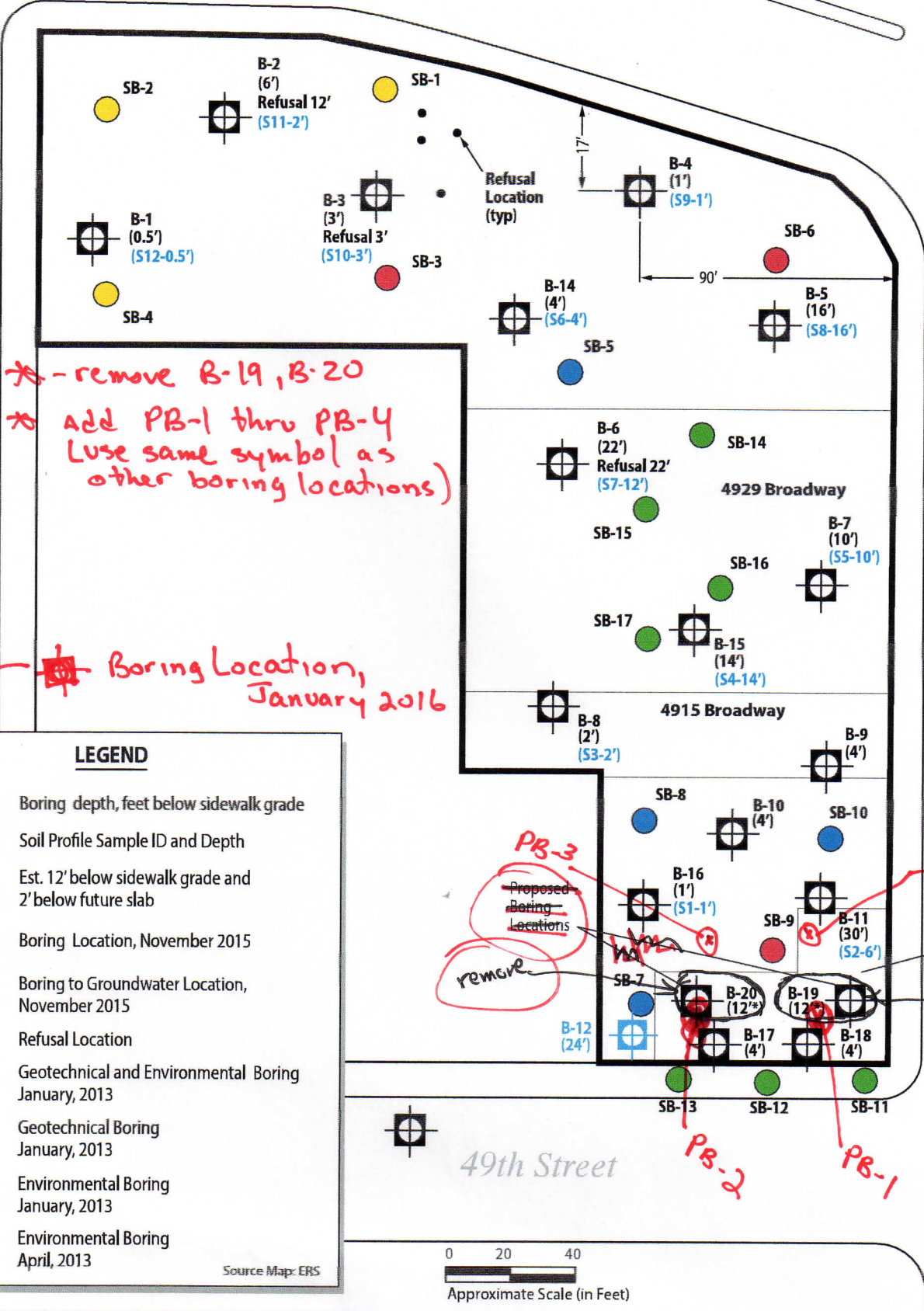
CLIENT _____ PROJECT NAME _____
 PROJECT NUMBER 1740.001 PROJECT LOCATION 4901 Broadway, Oakland
 DATE STARTED 1.27.16 COMPLETED 1.27.16 GROUND ELEVATION _____ HOLE SIZE _____
 DRILLING CONTRACTOR Pangea GROUND WATER LEVELS:
 DRILLING METHOD Hand Auger AT TIME OF DRILLING ---
 LOGGED BY E. Lervaag CHECKED BY _____ AT END OF DRILLING ---
 NOTES _____ AFTER DRILLING ---

DEPTH (ft bgs)	SAMPLE TYPE NUMBER	PID (ppm)	U.S.C.S.	GRAPHIC LOG	MATERIAL DESCRIPTION	BORING DIAGRAM
0					Mud	
	<u>PB-4-1'</u>				Brown clay with trace sand	<p>PVC Blank</p> <p>Bentonite Crumbles</p> <p>5' slotted screen</p> <p>2/12 sand</p>
	<u>PB-4-3'</u>				Gray clay	
5	<u>PB-4-5'</u>				red brown clay	
	<u>PB-4-7'</u>				gravel layer	
					Boring terminated	
10						
15						
20						

51st Street

Desmond Street

Broadway



* - remove B-19, B-20
 * Add PB-1 thru PB-4
 Use same symbol as other boring locations)

Boring Location, January 2016

Proposed Boring Locations
 PB-3
 PB-4
 PB-2
 PB-1
 remove
 remove

4901 Broadway
 Oakland, California



Boring Locations
 November 2015
 January 2016