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Alameda County Environmental Health

January 9, 2009

Paresh Khatri
Hazardous Materials Specialist
Alameda County Department of Environmental Health
1131 Harbor Bay Parkway
Alameda, California 94502-6577

Dear Mr. Khatri:

Subject: Groundwater-Monitoring Well Installation Plan Addendum

Reference: Earthgrains Baking Companies, Inc.

955 Kennedy Street

Oakland, California 94606

RO #0002569

On behalf of Earthgrains Baking Companies, Inc., PSC Industrial Outsourcing, LP (PSC) is submitting a *Groundwater-Monitoring Well Installation Plan Addendum* to the Alameda County Department of Environmental Health (ACDEH) for the above-referenced site. PSC prepared this plan addendum in response to a technical comment from the ACDEH in correspondence dated December 12, 2008. The technical comment from the ACDEH is presented below in italics and the PSC response and proposed modifications to the plan are presented following the comment.

Hydrogeologic Setting and Monitoring Well Installation - PSC proposes to install four 2-inch diameter groundwater monitoring wells at the site drilled to an approximate total depth of 25 to 30 feet below the ground surface (bgs) to intersect the well-graded gravelly sand and silty sand encountered at a depth of approximately 18 to 25 feet bgs with 10 feet of screen in the bottom. Static depth to groundwater at the site has been measured at approximately 10 bgs. A review of depth to groundwater data at nearby sites located within a mile north of the subject site verified that groundwater is encountered at shallow depths ranging from approximately 3 to 9 feet bgs. At a former LOP case located at 2100 Livingston Street in Oakland, groundwater was reported between 6.5 to 9.3 feet bgs. At another former LOP case located at 1441 Embarcadero, depth to groundwater ranged from 2.65 to 9.33 feet bgs in site groundwater monitoring wells screen to a maximum depth of 15 feet bgs. Therefore, the proposed depths of the site groundwater monitoring wells may not intersect the first water bearing zone, but rather a second water-bearing zone. Based on site soil and groundwater analytical data, it appears that the first and

second groundwater zones are impacted with petroleum hydrocarbons and that monitoring wells capable of sampling at discrete, distinct depths are appropriate. Please propose a scope of work to address the above-mentioned concerns and submit a work plan addendum due by the date specified below or sooner if possible.

The objective of installing the groundwater-monitoring and de-watering wells at the site is two-fold. Groundwater quality and the impact from the 2003 diesel release will be assessed in the vicinity of the former pump island located south of the truck wash building. The four groundwater-monitoring and one de-watering well will also provide geotechnical and hydrogeologic data to be used in the design and planning of contamination source removal by means of de-watering, excavation, and disposal. The rationale for the planned installation of each groundwater-monitoring well is discussed below. To clarify this discussion, PSC has numbered the proposed groundwater-monitoring wells at the site MW-101 through MW-104 and the de-watering well DW-1. The well locations and historic sampling locations referenced in this letter are shown on the attached revised Figure 7 from the Groundwater-Monitoring Well Installation Plan.

Shallow groundwater could be encountered at depths less than 10 feet bgs at the site in the vicinity of the former pump island and shared excavation of the diesel tanks. Groundwater encountered at these shallow depths could be surface water that has infiltrated the pavement cracks and perched in the granular backfill of these former excavations. This shallow groundwater could also be connected to water flowing in permeable natural deposits encountered at greater depths throughout the site. These natural deposits range from silty to gravelly sand and are typically encountered at approximately 18 feet bgs. The natural deposits are overlain by silt and clay and locally exhibit characteristics of confined groundwater. The potentiometric surface of previous groundwater-monitoring wells installed at the site screened in these deposits rose to less than 10 feet bgs.

PSC will install MW-101 near the former location of MW-1, which was installed following the 1992 unauthorized diesel release and properly abandoned in 1996. Silty clay and clayey silt. encountered in this well boring to a depth of 18 feet bgs. The soil is described as having a damp moisture content, which is considered well below saturated levels. Gravelly sand was also encountered in this boring at 18 feet bgs and 10 feet of well screen was installed from 18 to 28 feet bgs. The potentiometric surface of groundwater in MW-1 was approximately 9 feet bgs. PSC will install the well screen in MW-101 based upon field observations, but anticipates that the screen interval will be approximately 18 to 28 feet bgs.

PSC will install MW-102 in the vicinity of soil borings E-30 and E-34 drilled in September 2006 and near former MW-2 installed in 1992. Soil encountered in MW-2 consisted of silt and clay to a depth of 20 feet bgs, where silty sand was encountered. The screen in this monitoring well was installed from 18 to 28 feet bgs and the potentiometric surface was approximately 9 feet bgs. Soil encountered in E-30 and E-34 also consisted of silt and clay to a total depth of 15 and 25 feet bgs, respectively. A one-foot thick layer of dry silty sand was encountered at 8 feet bgs in boring E-34, however groundwater was not encountered in the boring until 22 feet bgs in wet

sandy silt. PSC will install the well screen in MW-102 based upon field observations, but anticipates that the screen interval will be approximately 18 to 28 feet bgs.

PSC will install MW-103 near soil boring E32 drilled in September 2006. Soil encountered in this former boring included a silty sand interval at 12.5 feet bgs. Based upon the boring log, the silty sand appears to be a natural deposit at the site. However, boring E32 is located near a storm-water drain and the trench excavated for this drain could be a conduit for surface water infiltrating the silty sand interval. The soil boring was terminated at 15 feet bgs and the boring log indicated that the soil was becoming coarser grained near the bottom.

PSC proposes an addendum to the groundwater-monitoring well installation plan by installing a shallower well screen in MW-103. PSC will auger the soil boring for MW-103 to a depth of approximately 28 feet bgs, in order to assess deeper subsurface conditions in this area of the site. If coarse-grained material is logged for the full depth of the boring, then PSC will install 15 feet of screen from 12 to 27 feet bgs with a one-foot sump installed at the bottom of the well. If the interval of coarse-grained material is shorter, then PSC will install a 10-foot well screen interval from 12 to 22 feet bgs. If a second deeper interval of saturated coarse-grained material is encountered in the soil boring, then the bottom will be filled with bentonite and the screen will be installed to intercept the first observed permeable layer. The assessment of the potential deeper permeable layers will be conducted at a later date if required.

PSC will install MW-104 in the vicinity of borings E-39 and E-40 drilled in September 2006. Soil encountered in these former soil borings consisted of silt and clay. A 0.5-foot layer of dry silty sand was encountered at 5.5 feet bgs in E-40. Gravelly sand was encountered in E-39 at 22 feet bgs and a 1.5 -foot layer of silty and gravely sand was encountered at 21 feet bgs in E-40. Groundwater was encountered at 22.5 and 18.25 feet bgs in these soil borings, respectively. Water levels rose to approximately 9.83 feet bgs in E-39 within one hour following drilling. PSC will install the well screen in MW-104 based upon field observations, but anticipates the screen interval will be approximately 18 to 28 feet bgs.

A modified pump test will be performed after the installation of the monitoring and de-watering wells to assess the potential hydraulic connection between the water in the former excavation and the deeper permeable layers. If the modified pump test indicates that groundwater encountered in the former shared diesel tank excavation is perched, then de-watering activities performed for the contamination source removal should be less complicated and costly. If PSC field observations indicate a shallow zone that is impacted and hydraulically connected to the former diesel tank excavation, then de-watering activities during the contamination source removal could become more challenging.

PSC understands the concerns of the ACDEH regarding two impacted permeable zones beneath the site. If two separate saturated permeable zones are encountered in the soil borings for the proposed groundwater-monitoring wells, then additional subsurface investigation could be required at the site. However, PSC will first assess the data collected during the monitoring-well installation activities and then discuss possible investigation data gaps at a later date.

Mr. Paresh Khatri January 9, 2009 Page 4

PSC believes that the installation of groundwater-monitoring and de-watering wells as proposed in the Groundwater-Monitoring Well Installation Plan, dated November 18, 2008, and modified by this addendum will fulfill the current site investigation objectives. If you have any questions or comments regarding this plan addendum, then please contact me at (618) 281-1450 or (618) 792-2468.

Respectfully,

PSC INDUSTRIAL OUTSOURCING, LR

John R. Carrow, RG

Senior Project Manager

cc: Melvin Siegel - Earthgrains Baking Companies, Inc.

Priya Cooper - Sara Lee Bakery Group, Inc.

Attachment 1 - Revised Figure 7 from the Groundwater-Monitoring Well Installation

Plan, PSC November 18, 2008.

JOHN R. CARROW

No. 5525

Attachment 2 - Boring Logs and Well Construction Details for former groundwater-

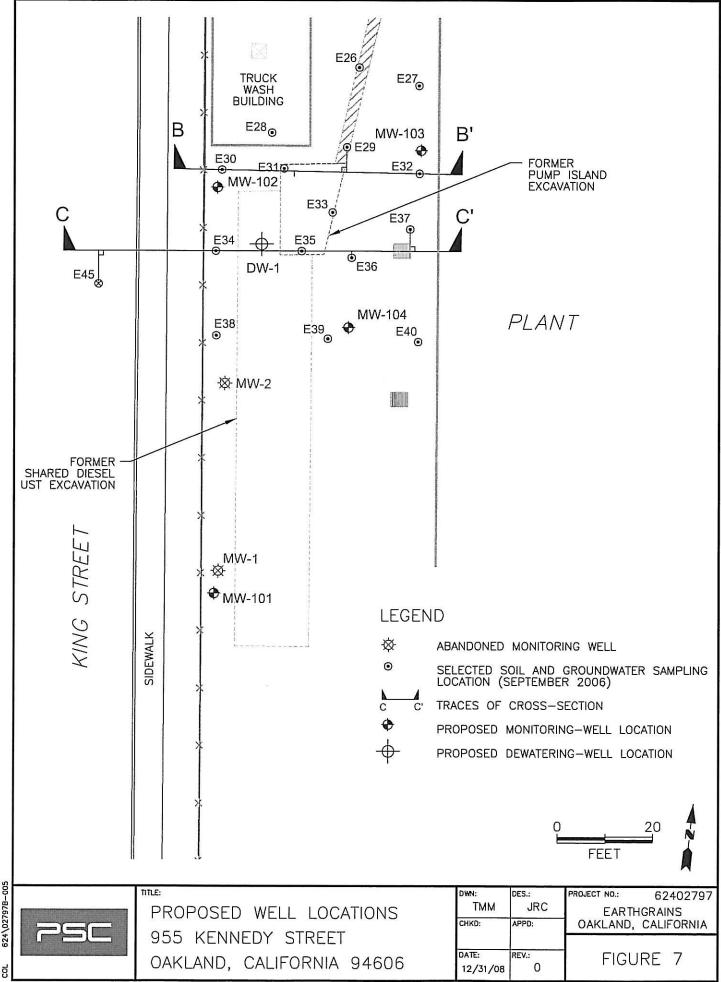
monitoring wells MW-1 and MW-2.

Attachment 3 - Boring Logs for E-30, E-32, E-34, E-39, and E-40, from the Soil and

Groundwater Quality Investigation Report, ETIC December 2006.

Attachment 1

Figure 7



624\02797B-005

Attachment 2

Boring Logs and Well Construction Details For MW-1 and MW-2



BORING LOG

Project Number: CTI-106

Kilpatrick's Bakeries

955 Kennedy Street, Oakland, CA

Drawing No.: A1041201 Page: 1 of 2

MONITORING WELL No.: TOP OF CASING ELEV.: TOTAL BORING DEPTH: MW-1 99.34 ft. 31.00 ft.

BY: K. Rahman DATE: 8/27/92

Pocket pene— trometer TSF	covery	Blow Count (blows /6")	Sample Depth (feet)	Well Detail	Strati— graphic Column	Description
			$L \circ J$		CONC	CONCRETE
						FILL, Pea gravel.
2.75 2.5	14/18	5 5 7	5			SILTY CLAY (CL), Mottled dark olive gray (5 Y, 3/2) and olive (5 Y, 5/6); 95—100% low to moderate plasticity fines; trace fine sand; some Fe—oxide staining; very stiff; damp; no odor.
2.25 1.5	18/18	6 8 10	8/31/92 - 10			@10 ff. Very dark gray (5 Y, 3/1); stiff; damp; moderate petroleum hydrocarbon odor. [PID = 192 ppm]
2.5 2.0	18/18	6 5 8	15		- M	CLAYEY SILT (ML), Mottled olive (5 Y, 5/3); and olive (5 Y, 5/6); 95-100% low to moderate plasticity fines; trace fine sand; some Fe-oxide staining; some rootholes; very stiff; damp; no odor.
			- - - - ∴		SW	GRAVELLY SAND (SW), Mottled olive (5 Y, 5/3) and olive (5 Y, 5/6); 60-70% fine to coarse sand; 20-30% fine to medium gravel; trace to 10% low plasticity fines; medium depres wat: no other

Notes: Boring drilled using eight—inch diameter hollow—stem augers. Soil samples collected at the above noted intervals using a two—inch diameter modified—California split—spoon sampler. The 25 to 31 foot interval was backfilled with bentonite pellets. A groundwater monitoring well was installed using two—inch diameter schedule 40 polyvinyl chloride casing screened with 0.010—inch machine slot (see Well Detail). The well—head was surveyed to site datum.

plasticity fines; medium dense; wet; no odor.



BORING LOG Project Number: CTI-106

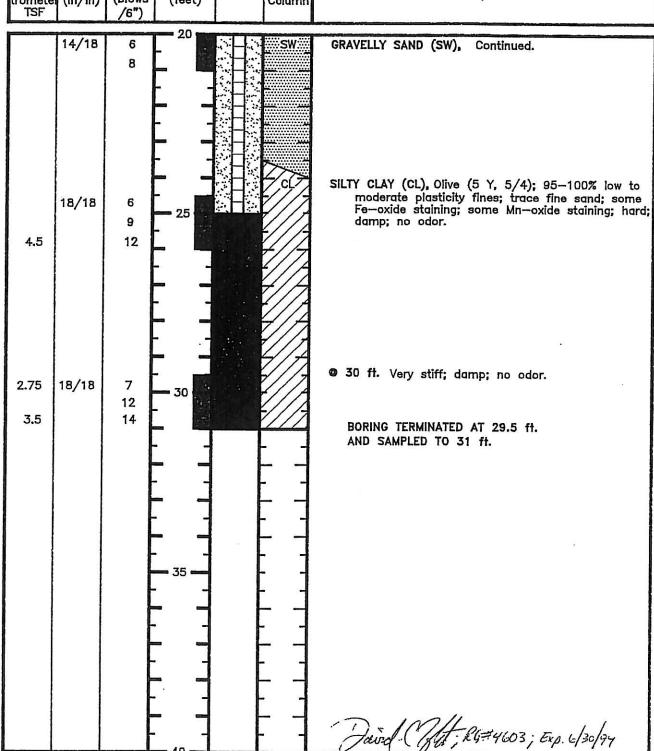
Kilpatrick's Bakeries

955 Kennedy Street, Oakland, CA

Drawing No.: A1041202 Page: 2 of 2 MONITORING WELL No.: TOP OF CASING ELEV .: TOTAL BORING DEPTH:

99.34 ft. 31.00 ft. BY: K. Rahman DATE: 8/27/92

Pocket Ropens— covered	ry Count	Sample Depth (feet)	Well Detail	Strati— graphic Column	Description
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Notes: Boring drilled using eight—inch diameter hollow—stem augers. Soil samples collected at the above—noted intervals using a two—inch diameter modified—California split—spoon sampler. The 25 to 31 foot interval was backfilled with bentonite pellets. A groundwater monitoring well was installed using two—inch diameter schedule 40 polyvinyl chloride casing screened with 0.010—inch machine slot (see Well Detail). The well—head was surveyed to site datum.

Project Number: CTI-106

Kilpatrick's Bakeries

955 Kennedy Street, Oakland, CA Drawing No.: A1041203 Page

BORING LOG MONITORING WELL No.: MW-2 TOP OF CASING ELEV .: 99.90 ft.

TOTAL BORING DEPTH: 29.5 ft.
BY: K. Rohman DATE: 8/27/92

ENVIRONM	DITAL DIC.	rawing No.:	A10412	.03	Page:	1 of 2	BY: K. Rahman DATE: 8/27/92
Pocket pene- tromet TSF		Count	Sample Depth (feet)	Well Detail	Strati— graphic Column		Description
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			-			FILL.	
>4	12/18	7 8 11	5 5			ana plasti	CLAY (CL), Mottled dark olive gray (5 Y, 3/2) olive (5 Y, 5/4); 80—90% low to moderate city fines; 10—15% fine gravel; trace fine to see sand; hard; dry; no odor.
		E E	/31/92			CLAY (CL) plasti stiff;	Black (5 Y, 2.5/1); 95—100% moderate city fine; trace fine to medium sand; very damp; moderate odor. [PID = 147 ppm]
3.25	18/18	6 7	10				
2.5		8 _			- ML - - - - -	Tines: T	.T (ML), Mottled olive (5 Y, 5/3) and olive 5/6); 95—100% low to moderate plasticity race fine sand; some Fe—oxide staining; ff; damp; faint petroleum hydrocarbon odor.
3.25	18/18	5 11 13					Some rootholes; very stiff; damp (wet rootholes); no odor.
2.5 3.25	18/18	6	15			@14.5 ft.	Some rootholes; very stiff; damp (wet rootholes); no odor.
2.75	18/18	6			- - - 	© 17 ff.	Some rootholes; very stiff; damp (wet rootholes); no odor.
2.0	18/18	6 7 - 9	70			Ø 19.5 ft.	Trace fine gravel; stiff; moist; no odor.

Notes: Boring drilled using eight—inch diameter hollow—stem augers. Soil samples collected at the above— noted intervals using a two—inch diameter modified—California split—spoon sampler. A groundwater monitoring well was installed using two—inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well—head was surveyed to site datum.



Project Number: CTI-106

Kilpatrick's Bakeries

11

955 Kennedy Street, Oakland, CA

Drawing No.: A1041204 2 of 2

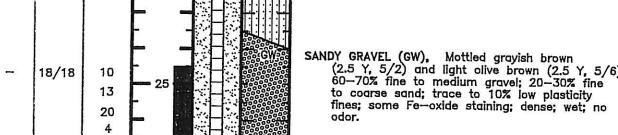
BORING LOG

MONITORING WELL No.: TOP OF CASING ELEV .: TOTAL BORING DEPTH:

medium dense; wet; no odor.

MW-2 99.90 ft. 29.50 ft.

Page: BY: K. Rahman DATE: 8/27/92 Pocket Blow Sample Well Stratipenecovery Count Depth Detail graphic Description (blows rometer (in/in) (feet) Column TSF **/6"**) 20 SILTY SAND (SM), Mottled grayish brown (2.5 Y, 5/2) and light olive brown (2.5 Y, 5/6); 70-80% fine to coarse sand; 20-30% low plasticity fines;



SANDY GRAVEL (GW), Mottled grayish brown (2.5 Y, 5/2) and light olive brown (2.5 Y, 5/6); 60-70% fine to medium gravel; 20-30% fine to course sand; trace to 10% low plasticity 5 5 2.5 18/18 SILTY CLAY (CL), Olive (5 Y, 5/4); 95-100% low 4 to moderate plasticity fines; trace fine sand; trace Fe-oxide staining; some Mn-oxide staining; 10 12 very stiff; moist; no odor. BORING TERMINATED AT 29.5 ft. 30 40 Notes: Boring drilled using eight—inch diameter hollow—stem augers. Soil samples collected at the above—

noted intervals using a two—inch diameter modified—California split—spoon sampler. A groundwater monitoring well was installed using two—inch diameter schedule 40 polyvinyl chloride casing screened with 0.010 inch machine slot (see Well Detail). The well—head was surveyed to site datum.

Attachment 3

Boring Logs for E-30, E-32, E-34, E-39, and E-40

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	Engin	neering	J, Inc.						PSC	C - Sara Lee	Oakland	955 Kennedy Street Oakland, CA 94606
f	INC	HES				ш		- % 5	LOG OF	SOIL BORING:		1
	DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	WATER SAMPL	SOIL SAMPLE RECOVERED	GRAPHIC LOG			E34	
			-	-	21—		-	CL				
-	36	36			22-				Change to	very dark grey (2 5	Y 3/1).	
-	30	30			<u>⊽</u> 23—				SANDY SI moist to w	LT, Light olive brow et	n (2.5Y 5/3), soft, fine-graine	d sand, trace clay.
ŀ			-		24		\vee	ML				
-				 0 01	25—		^	_ _	Boring terr neat ceme	minated at 25 feet. ent.	Boring filled and sealed with	a grout consisting of
					26							
					27—		-					
					28		-					
					29							
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Ì					31—			21				
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ľ			-		35		H					
					36		-					ž.
					37							
11/06					38-		F					
GDT 10												
P.J ETIC					40—							
AK BL.G					42-							
G SL.O	4-400		700 T. N. V.		43-							
LOG OF SOIL BORING SL.OAK BL.GPJ ETIC.GDT 10/11/08					44							
OG OF S					45							

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		G				¥.			PSC - Sara Le	е		Oakland)55 Kenne Dakland, C	
Engir	neering OF SO	g, Inc.	RING:			Ξ3	9		DRILLING AND SAMPLING METHOD	Ha S Co	nd-auger re Clear	ed to 3 feet bgs Acetale Liners			
									WATER LEVEL	文 2	2.5	¥ 9′83			
	RDINA /ATION		OF CA	ASING	3:				TIME	14	140	1535		START TIME	FINISH
CASI	NG BE	LOW	SURFA	ACE:					DATE	9/1	3/06	9/13/06		1340	1440
	LING C NSE N)				REFERENCE	(es	GS		9/13/06	DATE 9/13/06
	HES					9		SU	RFACE CONDITIONS			l			
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AMPLE	SAMPLE	GRAPHIC		Proceedings of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Control of the Co			Asphalt			
	REC	BLC	95	(fee	AIRS	SOS	용걸	DE	SCRIPTION BY:			D. Pew	Ewwed	by: 2	7 1/m/
				0			ASPHAL FYW		SPHALT ILTY GRAVEL(aggreg	ale ha	ee fill)	Dark brown (*	7 5VR 3/3) I	nose angular	
	 			1			GM.	g	avel to 1" diameter, dr	y.					
				2		11		S	ILTY CLAY, Black (5Y	2.5/1), medit	ım sliff, low p	asticity, dry		
				3		IF									
48	42-	**********	-0.0-	4					hange to mottled color 0YR 3/4)	ing, v	ery dark	grey (10YR :	3/1) and dark	yellowish bro	own
		-		_		X) '							
		•		5											
		30-40-		6	H			B	egining at 6 feet bgs. i Jbangular sand.	nclude	s trace	fine to coarse	e-grained sub	prounded to	
48				7											
				8	$\ \ $	1									
				9-				C	hange to soft to mediu	m slif	f verv l	ow plasticity	slichtly moist	includes littl	e fine
	24	-	0.0	¥ 10		X		to	coarse-grained sand.	faint o	odor	on plasticity,	ongriby molec	, moidago ika	O 11110
48				11-				C	hange to mottled dark	arev (10YR 4	/1) and dark v	vellowish bro	wn (10YR 3/4	I).
	42-		0 0	12	$\ $	X		П	edium stiff, dry. mode	ale o	ior				****
		-		13	$\ $										
				14-	$\ $										
				15											
48				16											
						-									
	24		0.0	17		Ÿ		Cw	hange to very dark gre ith little fine to medium	yish b -grain	rown (1 ed san	0YR 3/2), me d	dium stiff, lo	w plasticity. d	lry,
		-		18		Δ									
40		-		19				С	hange to soft to mediu	m stif	f, slighti	y moist			
12	12	-		20-											

112

			•					CLIENT	-		SITE NUMBER	LOCATION
Engir	neering	g, Inc.						PSC	C - Sara Lee)	Oakland	955 Kennedy Street Oakland, CA 94606
	HES		, n		PLE	ш		LOG OF	SOIL BORI	NG:		
DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAM	SOIL SAMPL	GRAPHIC		THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE STATE OF THE S		E39	
48						-	//cl//					
	-30	-		21-		The same of	ML NL	CLAYEY S	SILT, Light oliv	e brov dium-	wn (2.5Y 5/3), soft to medium grained sand, moist	stiff, very low
		-		Ţ 23—			·sw·	GRAVELL' subangular	Y SAND, Dark r gravel to 1" d	greyi iame	ish brown (2.5Y 4/2), loose, s ler, little silt, wet	ubrounded lo
			0.0-	24—		X -		Boring tem	ninated at 24 f nt	eet l	Boring filled and sealed with a	grout consisting of
				25-		-						
				26		-						
				27—								
				28								
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		7		31—		-						
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				39-								
				40-		-	1					
				41			1					
	<u></u>			42-			1					
				43-			1					
				44-			-					
			<u> </u>	45			1					

				١			X - w	38777 38377 86		CLIENT	SI	TE NUMBER	l	OCATION	
			6							PSC - Sara Le	е	Oakland	d	955 Kenne Oakland, C	
E	ngir	eerin	g, Inc.	•9						DRILLING AND SAMPLING METHOD		igered to 3 feet bg ear Acetate Liners		5410 Geoprobe	with Macro
L	.OG	OF SC	IL BO	RING:		I	E۷	10			J		T** ****	1	
C	000	RDINA	TES:							WATER LEVEL	♀ 18.25			CTART	EINIGH
			V TOP			3:				TIME	1122			START TIME	TIME
			LOW						_	DATE	9/13/0	6		1045 DATE	1120 DATE
			COMP. UMBE			J			Ī	REFERENCE	GS			9/13/06	9/13/06
	INC		6 K	(0			<u>п</u> п,		SUF	RFACE CONDITIONS	I				
	DRIVEN	RECOVER	BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	SAMPLE	SAMPL	GRAPHIC LOG		OCUPTION OV		Concrete		n , 2	2 1/2 0
-	H	RE	A A	8분		Ä	SOIL SA	82	DES	SCRIPTION BY:		D. Pew	Kenewe	d bid	<u> </u>
					0-	11		ONCRE	ECC	ONCRETE to 10" bgs.)
-		and the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second of the second 			1-	11		J. GM.	SI	LTY GRAVEL(aggreg avel to 0.75" dlameter	ate base fi . drv.	II), Dark brown	(7 5YR 3/3),	loose, angular	
-				-	2-	$\ $				LTY CLAY. Black (5Y		dium stiff, low p	plasticity, dry	y .	
					3										
	48														
		36		0.0	4			ML	CL	AYEY SILT, Mottled o	dark grey (asticity, tra	10YR 4/1) and ace fine-grained	dark yellowi: I sand, drv.	sh brown (10YF	₹ 3/4),
-			141		5	$\ $	Δ			LTY SAND, Dark grey	10 Total	3 - 50 110		arsa arainad	
-			-		6	$\ \ $		SM	su	brounded to subangul LTY CLAY, Mottled de	ar sand, d	ry.	Season and season		3/4).
					7				SO SI	ft to medium stiff, low LT, Mottled dark grey	plasticity, (10YR 4/1	slightly moist.) and dark yello	wish brown		3/0).
	48						١	ML	me	edium stiff. little fine-g	rained san	d, slightly mois	L		
		42	-	-0 0	8		X		SII	LTY CLAY, Mottled da	ırk grey (1	OYR 4/1) and di	ark yellowish	brown (10YR	3/4),
-			-		9-	$\ $				ft to medium stiff, very pist.	low plasti	city, trace fine t	lo medium-g	rained sand. sl	ightly
-				_o o_	10	$\ $	∇		Ch	lange to very dark gre	enish arev	(GLEY1 10Y 3	/1), no sand	moderate odo	ır
					11-		\triangle				g ,	(**************************************	,,	,	• •
	48						ŀ								
		42	-	0.0	12		X		Ch	ange to slight odor.					
			-		13			CL		ange to mottled dark	grey (10Yf	R 4/1) and dark	yellowish br	own (10YR 3/4). по
3					14—				od	or,					
25					15										
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	48								Inc	cludes little fine to med	lium-grain	ed sand from 1:	5 to 18 feet t	bgs	
<u>ק</u>		42	•	-0.0-	16-		X				-			n met	
<u> </u>			-		17										
2					_⊋ 18–				CI	AYEY SILT, Very darl	c arevieh H	rown (10∨R a/r	1aw thas (C		
בה בה					19-			ML	J.	Oibi, very dall	. groyian L	(1011 Of	-,, 3011, WEL		
LOG OF SOIL BORING SL-CAK BL.GPJ ETIC.GDT 10/1/06	36	36							Inc	cludes little fine to med	llum-grain	ed sand beginn	ing at 19 25	feet bgs	
3					20-			1 ' ' '							

Eq						CLIENT	SITE NUMBER	LOCATION
Enginee	IC ring, Inc.					PSC - Sara Lee	Oakland	955 Kennedy Street Oakland, CA 94606
DRIVEN	RECOVER BLOWS / 6" SAMPLER	OVA READING	DEPTH (feet)	AIR SAMPLE WATER SAMPLE SOIL SAMPLE RECOVERED	GRAPHIC LOG	LOG OF SOIL BORING:	E40	
24 2	14	0.0	21— 22— 23—		ML SM SW	SILTY SAND, Very dark greyi subrounded to subangular sar GRAVELLY SAND, Dark grey subangular gravel to 1" diame	ish brown (2 5Y 4/2), loose, s iter, little silt, wet	ubrounded to
	-	0.0	24— 25—	X		GRAVELLY CLAY, Dark grey to subangular gravel to 1" dian Boring terminated at 24 feet neat cement.		
			26— 27—					
			28— 29—					
			31—					
			33-					
			35-					
			36— 37— 38—		-			
			39— 40—					
			41-					
			43					
			45					