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Fax 408/434-8662**TELECOPY MESSAGE**To: Jennifer Eberle  
Of: Alameda County  
Fax No.:Date: 10-03-96  
Job/Proposal No.: A 932558A  
No. of Pages: 6 (incl. this page)  
Hard copy to follow: Yes or **(No)**

From: Jamie Higgins

Project/Subject: Boring Logs from Terra Corp II report


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the specified number of pages shown above, please call (408)-474-0280.

## Comments:

Ms. Eberle:


These are what I could find for boring  
logs in the file for this site. It appears  
that they were never included in the  
report for whatever reason. Unfortunately  
no one who worked on this project  
still works here. I hope this helps  
you with what you are looking for.  
Let me know if I can be of  
any further assistance.

-Jamie

PROJECT ▷ Terra Corp II		 APPLIED GEOSCIENCES INC.	PROJECT NUMBER ▷ A932558A	
LOGGED BY ▷ Lani Lee			START DATE ▷ 5/18/93	
CHECKED BY ▷			COMPLETION DATE ▷ 5/18/93	
GROUND SURFACE ELEVATION DATUM (FT-MSL) ▷			DRILLING COMPANY ▷ Exploration Geo	
DRILLING EQUIPMENT ▷ Mobile Bbl				
BORING DEPTH (FT) ▷ 20		WELL DEPTH (FT) ▷		WATER DEPTH (FT)-Initial:      Completion:
WELL MATERIALS ▷			WELL SCREEN INTERVAL (FT) ▷      TO	
WELL CASING ELEVATION (FT-MSL) ▷			OVM/OVA ▷ Hnd w/ 10.2 cu ft pipe.	

BACKFILL MATERIAL ▷ concrete slurry

DEPTH (FT)	LITHOLOGY		WELL	BLON COUNT	QUIN/OVA (PPM)	SAMPLE			COMMENTS
	DESCRIPTION	GRAPHIC				RECOVERY %	TYPE	NUMBER	
0	2" compact								
0-4	grayish brown (SP) fine to med. dry very fine sand (SM) minor clay Moist. (SP) minor clay dry, silty very fine sand (ML) Moist. silty yellowish brown (SP) (SL), damp, clayey clayey (SP) (CL) (SC)		X	5/18	0				
4-10	light to dark yellowish orange (SP) (SL) at 10'		X	5/11	0				
10-17			X	5/18/A	0				
17-20	dark yellowish brown (SP) (SL) moist, medium dense, silty sand (SP) minor clay Erosion trace noted @ 20'		X	5/17	0				

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CHECKED BY ▷			COMPLETION DATE ▷ 5/18/93	
GROUND SURFACE ELEVATION DATUM (FT-MSL) ▷			DRILLING COMPANY ▷ Exploration Geos.	
DRILLING EQUIPMENT ▷ Mobile Bbl				
BORING DEPTH (FT) ▷ 20		WELL DEPTH (FT) ▷		WATER DEPTH (FT)-Initial:      Completion:
WELL MATERIALS ▷			WELL SCREEN INTERVAL (FT) ▷ TO	
WELL CASING ELEVATION (FT-MSL) ▷			OVM/OVA ▷ HNU W/ 10.2 est probe	
BACKFILL MATERIAL ▷ concrete casing				

DEPTH (FT)	LITHOLOGY DESCRIPTION	GRAPHIC	WELL	BLOW COUNT	OVM/OVA (FPM)	SAMPLE			COMMENTS
						RECOVERY %	TYPE	NUMBER	
0	2" asphalt								
0-3	grayish brown, silty, very fine sand (SF) minor silt								
3-5	plastic, moderate to very dense, clayey sand (SC)								
5-10	light brown to gray, dry, med. dense, silty sand (SM)		X	7/9	0	65			
10-15	fine yellowish brown to moderate yellowish brown (10YR 5/6) dry, very stiff, sanding clay (CL)		X	7/17	0				
15-20	dark yellowish orange (10YR 6/6) dry, very dense, silty sand (SF) minor silt		X	28	0	65			
20	drilling terminated @ 20'		X	14	0	65			

BORING DESIGNATION SBZ	BORING LOG	PAGE NUMBER 1 OF	FIGURE NUMBER
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PROJECT ▷ <i>Terra Corp II</i>	 <b>APPLIED GEOSCIENCES INC.</b>	PROJECT NUMBER ▷ <i>A932558A</i>
LOGGED BY ▷ <i>Lani Lee</i>		START DATE ▷ <i>5/18/93</i>
CHECKED BY ▷		COMPLETION DATE ▷ <i>5/18/93</i>

GROUND SURFACE ELEVATION DATUM (FT-MSL) ▷	DRILLING COMPANY ▷ <i>Exploration Geos.</i>
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DRILLING EQUIPMENT ▷ *Mobile B61*

BORING DEPTH (FT) ▷ <i>21.5</i>	WELL DEPTH (FT) ▷	WATER DEPTH (FT)-Initial:	Completion:
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WELL MATERIALS ▷	WELL SCREEN INTERVAL (FT) ▷ TO
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WELL CASING ELEVATION (FT-MSL) ▷	OVM/OVA ▷ <i>Hand S 10.22 ft probe</i>
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BACKFILL MATERIAL ▷ *Concrete Grout*

DEPTH (FT)	LITHOLOGY		WELL	FLOW COUNT	OVM/OVA (PPND)	SAMPLE			COMMENTS
	DESCRIPTION	GRAPHIC				RECOVERY %	TYPE	NUMBER	
0									2" asphalt
5			X	0				SB3-1	
10			X	0				SB3-2	
15			X	0				SB3-3	
20			X	0				SB3-4 SB3-5	
21.5	Boring terminated @ 21.5'								

BORING DESIGNATION <i>SB3</i>	<b>BORING LOG</b>	PAGE NUMBER 1 OF	FIGURE NUMBER
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PROJECT ▷ Terra Corp II		 <b>APPLIED GEOSCIENCES INC.</b>	PROJECT NUMBER ▷ A932550	
LOGGED BY ▷ Lani Lee			START DATE ▷ 5/18/93	
CHECKED BY ▷			COMPLETION DATE ▷ 5/18/93	
GROUND SURFACE ELEVATION DATUM (FT-MSL) ▷			DRILLING COMPANY ▷ Exploration Geos.	
DRILLING EQUIPMENT ▷ Mobile Bbl				
BORING DEPTH (FT) ▷ 20		WELL DEPTH (FT) ▷		WATER DEPTH (FT)-Initial:      Completion:
WELL MATERIALS ▷			WELL SCREEN INTERVAL (FT) ▷ TO	
WELL CASING ELEVATION (FT-MSL) ▷			OVM/OVA ▷ H <sub>2</sub> O w/ 10.2oz probe	

BACKFILL MATERIAL ▷ Concrete Blended

DEPTH (FT)	LITHOLOGY		WELL	BLOW COUNT	OUM/OVA (PPM)	SAMPLE			COMMENTS
	DESCRIPTION	GRAPHIC				RECOVERY %	TYPE	NUMBER	
0	Granite brown (5% silt), dry very fine sand (SP) minor silt becomes moderate brown (5% silt) @ 2.5'								2" asphalt
5	moderate well-sorted brown (10% silt) dry, med dense suby sand (SP)		X	9/12	0				
10	becomes denser @ 10'		X	7/10	0				
15	becomes very dense & very fine sand @ 15'		X	2/97	0				
20	yellowish gray, med dense, clayey fine sand (SC) Boring terminated @ 20'		X	15/27	0				

BORING DESIGNATION

SB4

BORING LOG

PAGE NUMBER

1 OF

FIGURE NUMBER

April 14, 1996

Pam,

- The risk assessment just included the outdoor pathways, since according to the report the site is going to be used mainly for parking. This may mean that they may have to do a deed restriction so that the site will be re-evaluated if use changes or we can contact the planning or building department and send them a letter that states the condition (some cities have the mechanism to track this down).
- Also, they mentioned that the site may have some ticket counters which may warrant evaluating the "indoor exposure pathway", unless these are built on areas that are less contaminated. The risk assessment did not come out acceptable for the groundwater to indoor pathway.
- They have not evaluated the soils on site because they think it is insignificant. As I do not have the rest of the information, I cannot decide if this is O.K ( but the Tier I values for soil to indoor pathway for benzene is pretty low).
- They did not evaluate the surface pathway for construction workers which is required if they have contamination less than five feet bgs in the vadose zone.
- Total soil porosity should be equal to (volumetric water content in vadoze zone + volumetric air content in vadoze zone)

#### Results of the Risk Assessment

For the outdoor pathway, even the highest concentration reported is less than the cleanup levels. This is acceptable as long as the above mentioned issues have been discussed and cleared.

From Madhulla Logan