Date: 5-7- Project: M	
To: Ms.	MADHULA LOGAN PCS
Please	Find Enclosed:
Copies	Description BONING LOGS FOR ATTACHMENT B WOLKPLAN A & H GAS MINI MART, 20450 YESPERIAN BLVG, HAYWARD, CA.
For your:	ReviewCommentApproval Information
Comments:	PLEASE INSERT INTO WORKPLAN, ATTACHMENT B; AN DATED MAY 6, 1996 THONK YOU Some Vicil

FINIBONDENTAL PROTEOTION 96 MAY - 9 PHIS. 27



DATUM

COORDINATES

SURFACE ELEVATION

PROJECT

BORING NUMBER

B-11

SHEET 1 OF 1

Alliance Gas Station

LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

R. Gallardo

	SAM		FORMA	TION			LOGGED BY N. Gallardo	WELL	Z Č
DEPTH FEET			BLOW	Recovery %	HNu (ppm)	STRATA	DESCRIPTION	CONSTRUCTION DETAIL	ELEVATION FEET
5-		X	2 6 8	100			Asphalt to 2" bgs. Brown baserock to 8" bgs. SANDY CLAY (CH) dark grey, stiff and moist with debris. SANDY SILTY CLAY (CH) dark grey.		
10-		X	3 5 6	100			SANDY CLAY ICL) mottled grey and brown, stiff and moist with a gasoline odor at 7'. SANDY SILT (ML) 3" seam at 9' bgs. Very strong gasoline odor from 9' to 10.5' bgs.		
15-		X	3 6 8	100			SANDY SILT (ML) 2" grey seam at 14' bgs. Vertical worm holes saturated with gasoline at 14.5' bgs. SILTY SAND (SM) brown,	¥	
20-		M	2 5 8	100			dense, saturated and fine to coarse grained. Clayey 2" plug at 19.5' bgs.		
25 <i>~</i>		X	2 9 8	100					

DRILLING CONTRACTOR

DRILLING METHOD

DRILLING EQUIPMENT

DRILLING STARTED 7/7/94

ENDED 7/7/94

REMARKS



DATUM

COORDINATES

SURFACE ELEVATION

B1 BORING NUMBER

Alliance Gas Station

SHEET 1 OF 1

PROJECT LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

R. Gallardo

SURFACE ELEVATION	ioiv c	DATUM		LOGGED BY R. Gallardo			
DEPTH LAB SA	LE INFORMATION AMPLE BLOW Reco	very HNu	STRATA	DESCRIPTION	co	WELL INSTRUCTION DETAIL	ELEVATION FEET
5-1-10-15-1-15-1-15-1-15-1-15-1-15-1-15	3 4 4 3 6 5 1 3 4			0.0 - 1/2" Black asphelt 1/2" - 1.0' Silty sandy gravel (GM), yellow brown, dry to moist FIL fill material, (Leona Quarry) SILTY CLAY (CL) stiff, dark grey, moist, medium plasticity, no odor SANDY SILTY CLAY (CL) greenish grey, stiff, moist, platy structure; petroluem odor. 10' - 10.3' silty sand seam 10' - 11.5' very strong fresh product odor (gasoline) SILTY SANDY CLAY (CL) stiff, brown-grey, moist, mottled SILTY SAND (SM) brown, loose, saturated Total depth of boring 19.5' BGS.	▼		

DRILLING CONTRACTOR

SES

DRILLING METHOD

Hollow Stem Auger

DRILLING EQUIPMENT

CME55

DRILLING STARTED 1/24/94 ENDED 1/24/94 REMARKS



DATUM

COORDINATES

SURFACE ELEVATION

BORING NUMBER

B2

SHEET 1 OF 1

PROJECT

Alliance Gas Station

LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

R. Gallardo

<u> </u>	SAMPLE INFORMATION TH LAB SAMPLE BLOW Recovery HNU						DESCRIPTION	co	TION	
DEPTH FEET	LAB SAMPLE		BLOW COUNTS	, .,	HNu (ppm)	STRATA	DESCRIPTION		ELEVATION	
5	B-2-1	X	4 9 13				0.0 - 1/2" Black asphalt 1/2" - 1.0' Silty sandy gravel (GM), yellow brown, dry to moist, dense Fill fill material, (Leona Quarry) SANDY SILTY CLAY (CL) stiff, dark grey, maist, medium plasticity. SILTY CLAY (CL) medium (brownish-grey), stiff, moist, low to medium plasticity; mottled, some sand present			
10-	B-2-2		3 3 4				SILTY CLAY (CL) greenish brown, soft to medium stiff, moist, low to medium plasticity with small 3" clayey sand seams. 3" clayey sand seam at 9.5' 3" clayey sand seam at 10.5'			
15-	B-2-3		3 5 8				SANDY SILT (MU) greenish brown, stiff, moist, low plasticity; increasing sand and moisture with depth. greenish-brown mottling from 15' to 16' with trace worm holes with free water. No odor SILT SAND (SM) yellow brown, medium dense, wet to saturated, no	¥		
20							odor. Small sand seams. Sand is coarse to fine grained, sub-angular, multi colored grains. Total depth of boring 20' BGS.			
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	1								! !	

DRILLING CONTRACTOR

SES

DRILLING METHOD

Hollow Stem Auger

DRILLING EQUIPMENT

CME55

1/24/94 ENDED

1/24/94

REMARKS Borehole was logged using a continuous core barrel. Soil samples were collected on select intervals using a modified california split spoon sampler.



COORDINATES

SURFACE ELEVATION

BORING NUMBER

B3

SHEET 1 OF 1

PROJECT

Alliance Gas Station

LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

DATUM

R. Gallardo

	SAM	IPLE IN	ORMA	TION		ַ אַ		}	WELL	NO.
DEPTH FEET	LAB SAMPLE		BLOW COUNTS	Recovery %	HNu (ppm)	STRATA	DESCRIPTION	CC	INSTRUCTION DETAIL	ELEVATION
5		X	6 13 16				0.0 - 1/2" Black asphelt 1/2" - 1.0' Silty sandy gravel (GM), yellow brown, dry to moist, dense FILL fill material, (Leona Quarry) SILTY CLAY (CL) stiff, dark grey, moist, medium plasticity, strong petroleum odor at 2' SANDY CLAY (CL) dark grey-brown, stiff, moist, mottled; petroluem odor.			
10-		X	3 5 6				SILTY CLAY (CL) medium green-grey, stiff, moist with silty sand lense; petroleum odor Grey silty sand lense from 10.5' - 11.0', wet			
15							SANDY SILT (ML) greyish brown, moist to wet, slight hydrocarbon odor SILTY SAND (SM) brown, loose, saturated, no odor Total depth of boring 17.0' BGS.	1		
	10 mm/mm/mm/mm,		The state of the s	:						

DRILLING CONTRACTOR

SES

DRILLING METHOD

Hollow Stem Auger

DRILLING EQUIPMENT

CME55

DRILLING STARTED 1/24/94 ENDED

1/24/94

REMARKS



COORDINATES

B4 BORING NUMBER

SHEET 1 OF 1

PROJECT **Alliance Gas Station**

Hayward, CA LOCATION

CONTRACT NUMBER 94-510-1440

SURFACE ELEVATION	DATUM	LOGGED BY R. Gallardo	
DEPTH LAB SAMPLE	FORMATION BLOW Recovery HNu COUNTS % (ppm)	DESCRIPTION CONSTRUCTION DETAIL	FEET
1 1	1 1 1	DETAIL O.0 - 1/2" Black asphalt 1/2" - 1.0' Sifty sandy gravel (GM), yellow brown, dry to moist, dense [FIL film material, (Leone Querry) SiTY CIAY (CII) medium stiff, dark grey, moist, medium plasticity, strong petroleum odor; weathered gasoline SiTY CIAY (CII) green-grey, stiff, moist, medium plasticity; slight petroleum odor Grey sity sand lense from 10.0' - 10.3' SITY SAND (SM) brown, loose to medium dense, saturated, no odor Total depth of boring 14.5' BGS.	
DRILLING CONTRACTOR DRILLING METHOD	SES Hollow Stem Auger	REMARKS	-

DRILLING METHOD

Hollow Stem Auger

DRILLING EQUIPMENT

CME55

DRILLING STARTED 1/24/94 ENDED

1/24/94

COORDINATES

BORING NUMBER

B5

Alliance Gas Station

SHEET 1 OF 1

PROJECT LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

	CE ELEVA	TION		DATU	м		LOGGED BY			
DEPTH FEET	,	PLE INI SAMPLE TYPE		Recovery	HNu (ppm)	STRATA	DESCRIPTION	co	WELL NSTRUCTION DETAIL	ELEVATION
5 -							ASITIAL plack SILTY, SANDY GRAVEL (GM) yellow-brown, dense, dry to moist fill from t he Leons Quarry SILTY CLAY (CH) black, stiff, moist with small roots. SANDY CLAY (CL) mottled grey-brown, stiff and moist with platy structure.			
10-							SANDY CLAY (CL) medium grey, stiff, moist with platty structure. Old waste oil odor. 3" thick grey silty sand seam with solvent odor. 3" thick grey silty sand seam with solvent odor.			
15							10.5' bgs to 14' bgs contains trace gravels, rounded with 1/4" diameter. 3" grey silty sand seam with solvent odor. SANDY CLAY (CL) mottled medium brown with grey, stiff, moist to wet with trace lepard texture. Contains vertical worm holes. SANDY SILT (ML) brown-grey, wet	<u> </u>		
20-							with lepard texture. SILTY SAND ISMI brown with grey, soft and wet with lepard texture. May contain marsh grass. cleaner, loose, wet. coarse grained seam drier			
25~							1 " black clay seam. 1/4" black clay seam. black clay silt seam. black clay silt seam.			
Andrews Carlotte Carlotte	magentus agentus de l'escape de la companya de la c							; ;		
DRILLIN	G CONTR	ACTOR	===== <u>=</u>				REMARKS			 .
DRILLIN	G METHO	סי								
DRILLIN	G EQUIPN	MENT				1 }				
RILLIN	G STARTI	ED	_	ENDED _		ازا	See key sheet for symbols and abbreviation	ns used	above	



DATUM

COORDINATES

SURFACE ELEVATION

DRILLING METHOD

DRILLING EQUIPMENT

DRILLING STARTED

ENDED

BORING NUMBER MW-1

Alliance Gas Station

PROJECT Alliance Gas State LOCATION Hayward, CA

LOCATION Hayw

94-510-1440

SHEET 1 OF 2

LOGGED BY

SURFACE ELEV	AHON		DATO	IVI		LOGGED BY		
SA DEPTH LAB FEET SAMPL	1		Recovery	HNu (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION
				(ppin)		Asphalt down to .21' bgs. Brown base rock to .3' bgs SANDY CLAY (CL) dark grey, medium stiff, moist with fat clay.		<u> </u>
5 -	X	5 7 12	100			SILTY SANDY CLAY (CL) mottled medium grey and brown, stiff and moist. Motor oil odor present at 6.0' bgs.		
10-	X	3 4 4	100			SANDY CLAY (CL) medium grey, medium stiff, moist with strong TPH-G odor in sandier seams within sample 9 1/2' to 11' bgs.		
15-	X	3 4 5	100			SANDY CLAY (CL) mottled grey and brown, medium stiff, moist with vertical worm holes containing product. SILTY SAND (SM) brown, medium		
20-		2 5 6	100			dense and wet to saturated.		
25-	X	6 7 9	100			sandy silt seam 3" thick. cleaner sand from 24.26' to 25.5' bgs (sand is heaving).		
30-		10 12 13	100	**************************************		graded bedding from 29' to 30.5' bgs. 1/2" subrounded fine to medium gravels.		
1	<u> </u>	3 4	100			SANDY CLAY (CL) beige, stiff and		
DRILLING CONT	RACTOR					REMARKS		

COORDINATES

SURFACE ELEVATION DATUM

MW-1 BORING NUMBER

SHEET 2 OF 2

Alliance Gas Station

Hayward, CA LOCATION

94-510-1440 CONTRACT NUMBER

LOGGED BY

PROJECT

	SAM	IPLE IN	FORMA	TION		¥.			WELL CONSTRUCTION DETAIL	
DEPTH FEET			COUNTS	Recovery %	HNu (ppm)	STRATA	DESCRIPTION	CO		
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COORDINATES

DRILLING EQUIPMENT

DRILLING STARTED

ENDED

SURFACE ELEVATION DATUM

BORING NUMBER B

B7

SHEET 1 OF 2

PROJECT

Alliance Gas Station

LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

	SAMPLE INFORMATION PTH LAB SAMPLE BLOW Recovery HN								WELL	NO.
DEPTH FEET	LAB SAMPLE		BLOW COUNTS	, ,	HNu (ppm)	STRATA	DESCRIPTION	со	NSTRUCTION DETAIL	ELEVATION
							2" asphalt layer. Yellow brown baserock to .8' bgs. SANDY CLAY (CH) black, stiff, moist, high PI and traces of peat. Motor oil odor.			
5-							SANDY CLAY ICLI mottled grey and brown,stiff and moist. No odor.		,	
-							SANDY CLAY (CL)medium grey, stiff, moist and a platy texture. TPH odor.			
10-							CLAYEY SAND (CL) 2" seam with strong gasoline odor. CLAYEY SAND (CL) 4" thick seam. Increasing moisture and silt from 11' to 13.5' bgs, softer.	Ţ		
15-							Strong gasoline odor from 14'to 15.5' bgs. SANDY SILTY CLAY (CL) brown, moist to wet, medium stiff to stiff, vertical worm holes acting as conduits for gasoline. Free product at 16.5' bgs. SILTY SAND ISMI brown, medium			
20-							dense, moist to wet with no odor. Seturated from 20.5' to 22' bgs. Graded bedding at 22' bgs. Denser. Graded bedding.			
25			-				Graded bedding at 25' bgs. Gravel seam at 25.5' bgs. SILTY CLAYEY SAND (SC)seam at 26' bgs. Gravel seam at 27' bgs. GRAVELLY SILTY SAND (SP-SM)			
30	***************************************						SILTY GRAVELLY SAND (SP)		}.	
	İ		į				SANDY CLAY (CL) beige, medium			
	CONTR						REMARKS			

DATUM

COORDINATES

SURFACE ELEVATION

BORING NUMBER

B7

Alliance Gas Station

PROJECT LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

SHEET 2 OF 2

LOGGED BY

		IPLE INI				STRATA	DESCRIPTION	co	WELL NSTRUCTION	ELEVATION
DEPTH	LAB SAMPLE		BLOW	Recovery %	(ppm)				DETAIL	ELEV,
							stiff, moist with trace lepard texture.			
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COORDINATES
SURFACE ELEVATION

DRILLING STARTED

ENDED

DATUM

BORING NUMBER B

B8

SHEET 1 OF 2

PROJECT

Alliance Gas Station

LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

LOGGED BY

SURFACE E	T SAMPLE TYPE COUNTS % (pp				M		LOGGED BY			
			τ			STRATA	DESCRIPTION	CO	WELL NSTRUCTION	ELEVATION
2					HNu (ppm)	<u>ll</u>			DETAIL	ELEV
,							2" sephelt layer. Yellow brown baserock to .8' bgs. SANDY CLAY dark grey, stiff, and moist.			
5							Motor oil odor at 4.5' bgs. SANDY CLAY (CL) mottled grey and brown,stiff and moist with platy texture.			
10-							SANDY (CL) 2" seam with strong gasoline odor. SANDY SILT (ML) darker grey, medium stiff, moist with vertical worm holes. Gasoline odor.	Y		
15-							3" sand seam at 12.5' bgs. SANDY CLAY (CUstiff, moist to wet with vertical worm holes containing free product. Increased abundance of worm holes that contain product. Free product on run sample from 15.5' to 16.5' bgs.			
20-					! !		SILTY SAND (SM-ML) medium dense and wet to saturated. increasing sand content 20' to 24' bgs.			
25-							Iron staining zone at 24' bgs.			
30-			-	, e			Clean sand seam at 27' bgs. SAND (SP) brown, dense, fine grained and saturated.		a my cicama	
		and the second s		:			SAND (SP) brown, medium dense, saturated and coarse grained. SANDY CLAY (CL) beige, stiff and		; ; ;	
					<u>_</u>					===
DRILLING CO							REMARKS			
DRILLING ME										
DRILLING EQ	UIPM	INI	•			li				ļ

COORDINATES SURFACE ELEVATION

DATUM

BORING NUMBER

B8

Alliance Gas Station

SHEET 2 OF 2

PROJECT

LOCATION

Hayward, CA

CONTRACT NUMBER 94-510-1440

LOGGED BY

SAMPLE INFORMATION DEPTH LAB SAMPLE BLOW Recovery HINU (ppm) FEET SAMPLE TYPE COUNTS % (ppm) Timoist. WELL CONSTRUCTION DETAIL	ELEVATION
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COORDINATES
SURFACE ELEVATION

DRILLING STARTED

ENDED

DATUM

BORING NUMBER MW-2

Alliance Gas Station

SHEET 1 OF 1

LOCATION Hayward, CA

CONTRACT NUMBER 94-510-1440

LOGGED BY

PROJECT

SURFACE ELE	VATION		DATU	М		LOGGED BY		
SAMPLE INFORMATION							WELL	VATION
DEPTH LAB		BLOW COUNTS	Recovery	HNu (ppm)	STRATA	DESCRIPTION	CONSTRUCTION DETAIL	ELEVATION
						Asphalt to 2 1/2' bgs. Brown baserock to 6" bgs. SANDY CLAY (CH) dark grey, stiff and moist.		
5-						SANDY CLAY (CH) medium grey brown, stiff and moist with no odor.		
-		3 5 9	100			Strong waste oil odor at 8' bgs.		
10-	X	3 5 5	100			3" silty sand seam at 10.5' bgs.	¥	
15-	X	3 6	100			SANDY SILTY CLAY (CL) mottled grey brown, stiff and moist with vertical worm holes (grey) that are saturated.		
20-	X	1 2 5	100			SILTY SAND (SM) brown, medium dense and wet to saturated.		
25-	X	NA	100					
7 7	X	3 7 8	100			silty, gravelly graded bedding.		
	TRACTOR					REMARKS		===
DRILLING CONTRACTOR DRILLING METHOD						NEWIANKO		
DRILLING EQUIPMENT					!!			

See key sheet for symbols a

abbreviations used above.



DATUM

COORDINATES

SURFACE ELEVATION

BORING NUMBER B10

D.0

Alliance Gas Station

PROJECT LOCATION

Hayward, CA

CONTRACT NUMBER

94-510-1440

SHEET 1 OF 1

LOGGED BY

SAM		 -		┭—	<u> </u>		
LAB	SAMPLE	Recovery	HNu (ppm)	STRATA	DESCRIPTION	WELL CONSTRUCTION DETAIL	ELEVATION
					Asphalt to 2" bgs. Baserock to 8" bgs. SANDY SILTY CLAY (CH) dark grey, stiff, moist with waste oil odor.		
					SANDY CLAY (CL) mottled grey and brown, stiff and moist.		
		روابد ، ودراب ، ودراب المدادة في المدادة ، ودراب المدادة ، ودراب المدادة ، ودراب المدادة ، ودراب المدادة ، ودر					
					70 J (pp,	Asphalt to 2" bgs. Baserock to 8" bgs. SANDY SILTY CLAY (CH) dark grey, stiff, moist with waste oil odor. SANDY CLAY (CL) mottled grey and	Asphalt to 2" bgs. Beserock to 8" bgs. SANDY SILTY CLAY (CH) dark grey, stiff, moist with waste oil odor. SANDY CLAY (CL) mottled grey and

DRILLING CONTRACTOR

DRILLING METHOD

DRILLING EQUIPMENT

DRILLING STARTED

REMARKS

ENDED