English College Colleg

March 1, 2005

Roseanna Garcia-La Grille Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Subject:

Former Shell Service Station

4411 Foothill Boulevard Oakland, California

Dear Ms. Garcia-La Grille:

Attached for your review and comment is a copy of the Monitoring Well Destruction Work Plan for the above referenced site. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (559) 645-9306 with any questions or concerns.

Sincerely,

Shell Oil Products US

Karen Petryna

Sr. Environmental Engineer

Karen Petryna

Roseanna Garcia-La Grille Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, California 94502-6577

Re: Monitoring Well Destruction Work Plan

Former Shell Service Station 4411 Foothill Boulevard Oakland, California Incident # 98995746 Cambria Project # 247-0897-006





Dear Ms. Garcia-La Grille:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Cambria Environmental Technology, Inc. (Cambria) is submitting this *Monitoring Well Destruction Work Plan*. This work plan is being submitted in anticipation of the upcoming proposed redevelopment of the subject property (Figures 1 and 2). Presented below are a summary of site characteristics, a summary of monitoring well destruction activities, and the proposed scope of work.

SITE CHARACTERISTICS

Site Description: The site is a former Shell-branded service station located on the southwest corner of the Foothill Boulevard and High Street intersection in Oakland, California (Figures 1 and 2). Land use in the site vicinity is mixed commercial and residential, with gasoline service stations occupying the northeastern and northwestern corners of the intersection. Fremont High School is located on the southeastern intersection corner.

Sediment Lithology: Sandy clay underlies the site from approximately 6 to 10 feet below grade (fbg). Clayey sand with lenses of gravel underlies the sandy clay from approximately 10to13 fbg. Sandy clay underlies the clayey sand to the maximum on-site explored depth of 26 fbg.

Groundwater Characteristics and Monitoring Results: Groundwater has been monitored at the site since December 1992. During that time, groundwater depth has ranged from approximately 6 to 12 fbg. The calculated groundwater gradient typically trends to the south-southwest at 0.12 ft/ft. The fourth

Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

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quarter 2004 maximum groundwater concentration of total petroleum hydrocarbons as gasoline was 4,700 parts per billion (ppb) in well S-5. During the fourth quarter 2004, the maximum concentrations of benzene and methyl tertiary butyl ether in groundwater were 520 ppb and 290 ppb, respectively, in S-4.

Property Development: The site is currently a vacant lot. According to the property owner, redevelopment construction will begin in late May to early June of 2005. The five on-site wells (S-1 through S-5) are located in areas where new buildings and a parking lot are proposed. Since the proposed buildings will cover three wells (S-2, S-4 and S-5), and grading for the proposed parking lot could damage wells S-1 and S-3, Cambria believes it is appropriate to properly destroy the wells prior to their being damaged or lost during construction to protect groundwater quality. Once the property owner obtains construction permits and provides Shell with a construction start date, Cambria will implement the well destruction activities. Cambria proposes to destroy the wells by pressure grouting with neat Portland Type I/II cement grout. Upon redevelopment completion, Cambria will submit a well installation work plan to the Alameda County Health Care Services Agency discussing potential replacement well locations.



PROPOSED SCOPE OF WORK

Well Destruction Activities: Five wells (S-1 through S-5) are proposed for destruction by pressure grouting with neat Portland Type I/II cement. Construction details for wells S-2 through S-5 are included in Attachment A. (No construction details were available for on-site well S-1.) Cambria's Standard Field Procedures for Monitoring Well Destruction is included as Attachment B. All well vaults will be removed during well destructions.

Utility Location: Cambria will notify Underground Services Alert (USA) of our pressure grouting activities, and USA will identify utilities in the site vicinity. Also, a private line locator may be used to identify on-site utility locations.

Site Health and Safety Plan: Cambria will prepare a comprehensive site safety plan to protect site workers. The plan will be reviewed and signed by each site worker and kept onsite during field activities.

Permits: Cambria has obtained the necessary permits from the Alameda County Public Works Department (ACPWD) (Attachment C).

Suspension of Groundwater Monitoring: Groundwater monitoring will be temporarily suspended during the construction period. Joint groundwater monitoring is currently conducted with the Chevron

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station located at Chevron Service Station #9-0076 at 4265 Foothill Boulevard and the adjacent former BP Service Station #11109 at 4280 Foothill Boulevard. Upon well destruction, the other parties will be informed of the temporary suspension of joint groundwater monitoring.

Reporting: Upon completion of the well destructions, Cambria will prepare a report that, at a minimum, will contain:

- A summary of the site background and history,
- Descriptions of the destruction activities,
- Destroyed monitoring well construction details, and
- California Department of Water Resources well driller's completion reports.



CLOSING

We appreciate the opportunity to work with you on this project. Please call David Gibbs at (510) 420-3363 if you have any questions or comments.

Sincerely,

Figures:

Cambria Environmental Technology, Inc.

David Gibbs Project Geologist

Matthew W. Derby, P.E.

Senior Project Engineer

1 - Vicinity/Area Well Survey Map

2 - Proposed Well Destruction Locations with Proposed Building Foundations

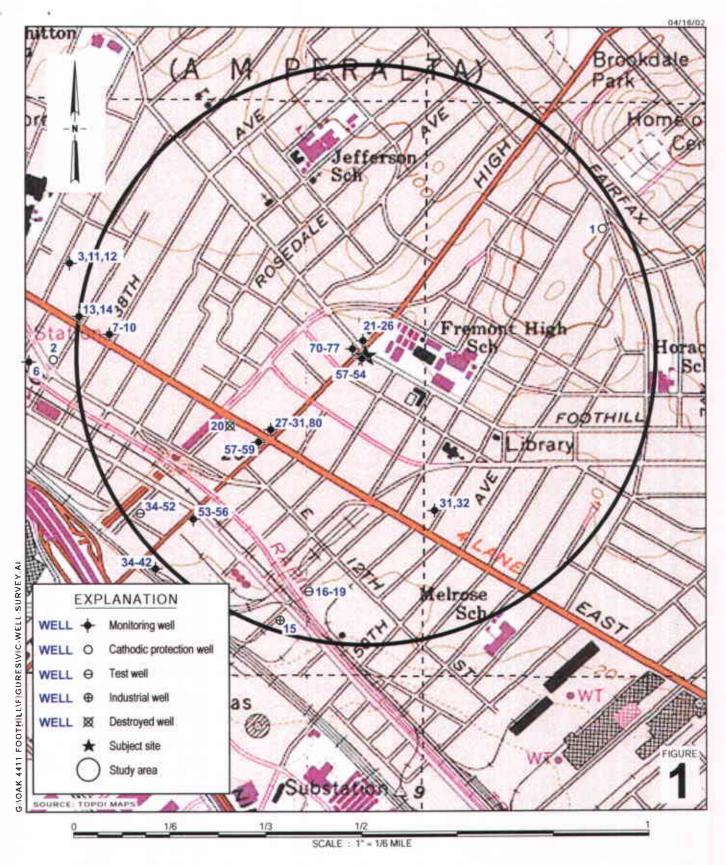
Attachments: A - Well Construction Details

B - Standard Field Procedures for Monitoring Well Destruction

C - ACPWD Permits

cc: Karen Petryna, Shell Oil Products US, 20945 Wilmington Ave, Carson, CA 90810 Bill Phua c/o Jay-Phares, 10700 MacArthur Boulevard, Suite 200, Oakland, CA 94605-5260, Attention: H.K. Phares

G:\Oakland 4411 Foothill\2005 Property Development\Destruction workplan .doc



Former Shell Service Station

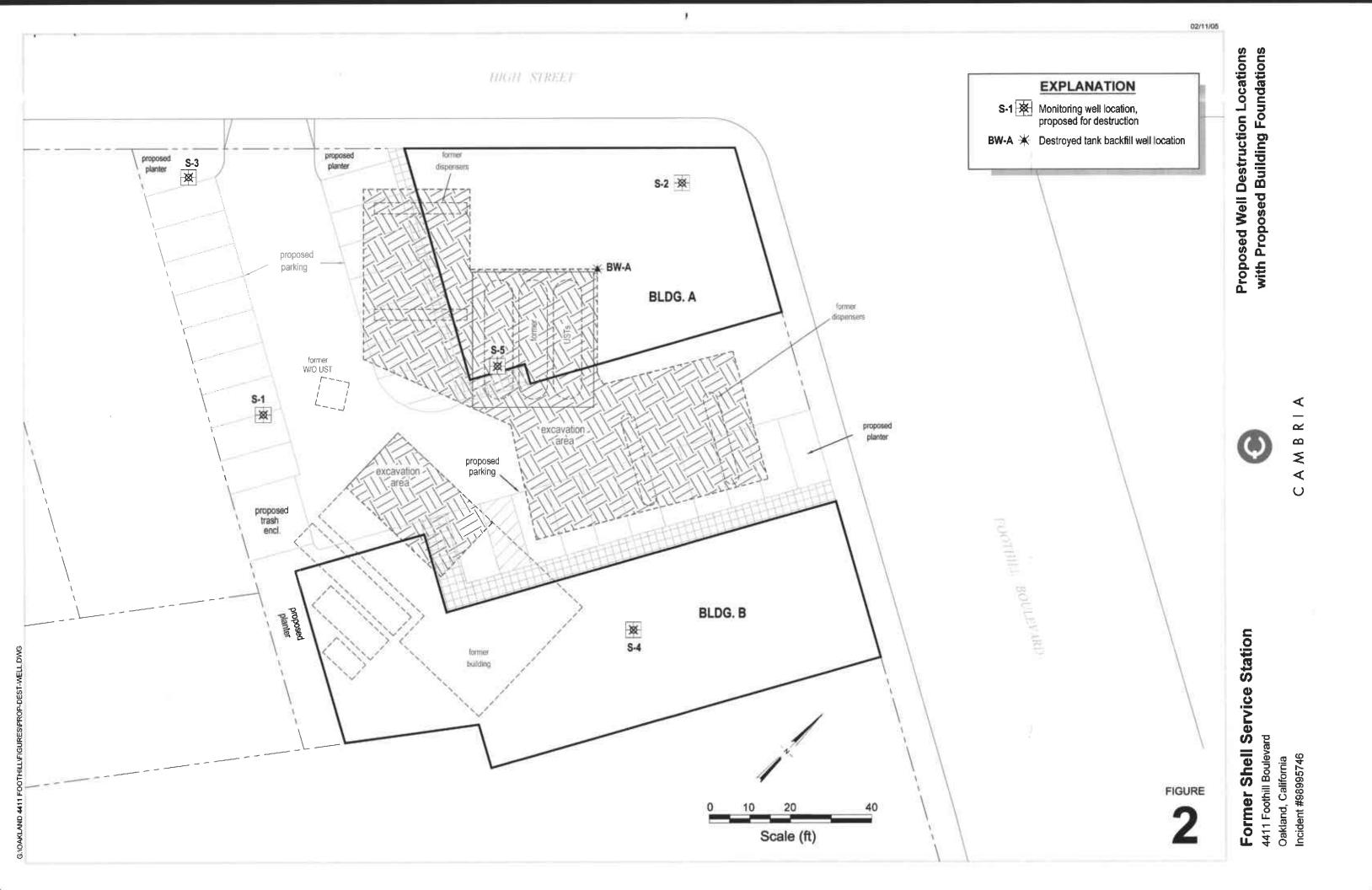
4411 Foothill Boulevard Oakland, California Incident #98995746



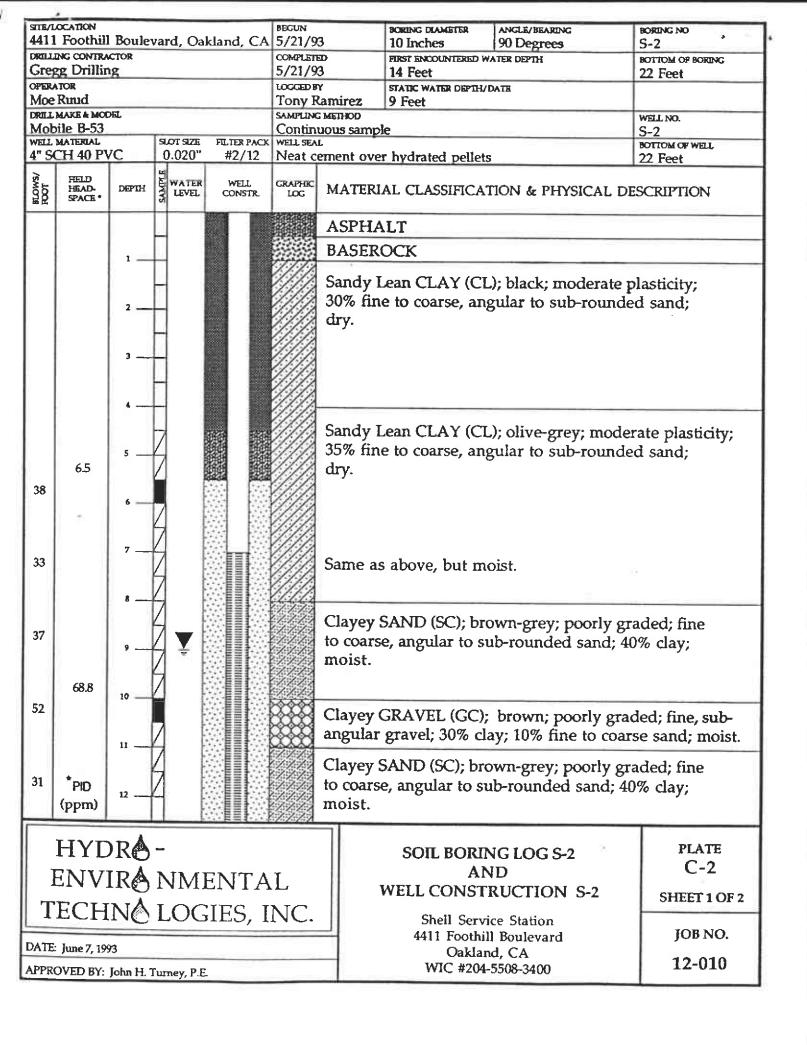
CAMBRIA

Vicinity/Area Well Survey Map

(1/2-Mile Radius)



ATTACHMENT A Well Construction Details



STE/LOCATION 4411 Foothill Boulevard, Oakland, CA 5/					BEGUN 5/21/93		10 Inches	ANGLE/BEARING 90 Degrees	S-2	
DRILLING CONTRACTOR COMPLETED					COMPLETE	D	FUST ENCOUNTERED WATER DEPTH		BOTTOM OF BORING	
Gregg Drilling 5/21/93					And in case of the last of the		14 Feet STATIC WATER DEPTH/DATE		22 Feet	
Or Biot i Oil						amirez	9 Feet	7 LW1148		
DRILL MAKE & MODEL SAMPLIN					SAMPLING	METHOD	27	*:	WELL NO.	
	ILE B-53	_	SOT SZE	FILTER PACK		ious samp	ole	-	S-2 BOTTOM OF WELL	
	H 40 PV	'C	0.020"	#2/12	A CONTRACTOR OF THE STATE OF	ement over	22 Feet			
ROOT N	HEAD- SPACE	DEPTH	WATER LEVEL	WELL CONSTR.	GRAPHIC LOG	MATER	IAL CLASSIFICA	ATION & PHYSICAL	. DESCRIPTION	
			И			Clayey	SAND (SC); o	continued from sh	neet 1.	
		**			Clayey	Clayey GRAVEL (GC); same as 10' to 11'.				
26		13				Clayey	SAND (SC); s	ame as 11' to 12.5	3.	
		5504	$\mathbb{Z}_{ \nabla}$			Silty S	AND (SM); lig	ht brown; poorly	graded; fine to	
	10.8	14	#		(sub-rounded sar		
	10.6				1///				132	
31		15	7		1993	Clayey SAND (SC); brown-grey; poorly grad				
	i i		H		to coarse, angular to sub-rounded sand; 40% clay;					
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21	1		4		1///					
		17	И							
		9497	И		11/1	Fat CL	AY (CH); light	brown; high plas	sticity; 10% fine	
18			7		11//			to sub-rounded s		
2000		18 —	th 1		1111					
			H		1///	Fat CLAY (CH); light brown; high plasticity; moist.				
255	19 —									
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HYDR -					K. W			AND	C-2	
ENVIR NMENTAL					AL			TRUCTION S-2	SHEET 2 OF 2	
Т	FCF	INI	LOC	GIES,	INC	- 11			51.551 2 51 1	
1	1.01	TING		راتندد	IIVC.			rvice Station hill Boulevard	JOB NO.	
DAT	E: June 7, 1	993						land, CA	12.010	
APPROVED BY: John H. Turney, P.E.								04-5508-3400	12-010	

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STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

REMOVED

MIE/LOCATION 4411 Foothill Boulevard, Oakland, CA					land CA	5/21/9	3	10 Inches	90 Degrees	BORING NO S-3	
DRILLING CONTRACTOR C					ania, cn	COMPLET	D	FIRST ENCOUNTERED		BOTTOM OF BORING	
						5/21/9 LOGGED 8		14 Feet STATIC WATER DEPTH	/DATE	20 Feet	
1793 militratification (1793)						Tony F	Fony Ramirez 9 Feet				
							OMPLING METHOD Continuous sample S-3			WELL NO. S-3	
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	CH 40 PV	C		.020"	#2/12	Neat c	eat cement over hydrated pellets 20 Feet			20 Feet	
ROOT	SAVCE . HEYD: HEYD	DEPTH	SAMPLE	LEVEL	WELL CONSTR	GRAPHIC LOG	MATER	IAL CLASSIFICA	TION & PHYSICAL	. DESCRIPTION	
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	And the same of th										
	2.1	6	7	ŀ			Sandy Lean CLAY (CL); olive-grey; moderate plasticity; 25% fine to coarse, angular to sub-rounded sand; dry.				
38		- 81				1///	25% f	ine to coarse, a	ingular to sub-ro	unded sand; dry.	
		7	И				Clavey	Clayey SAND (SC); brown-grey; poorly graded; fine			
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39		12.1	И	1		10% fine, sub-angular to sub-rounded gravel;					
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916				į.							
42		11							live-grey; poorly		
			4	1		coarse, angular to sub-rounded sand; 25% clay; 15% fine, sub-angular to sub-rounded gravel; moist.					
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	(ppm)					0000	Sandy GRAVEL (GP); explanation on sheet 2.				
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HYDR 6 - ENVIR 6 NMENTAL							П		ING LOG S-3	C-3	
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		-								SHEET 1 OF	
TECHN LOGIES, INC.					IEO,	HVC.			vice Station till Boulevard	JOB NO.	
DATE: June 7, 1993									and, CA		
APPROVED BY: John H. Turney, P.E.								WIC #20	4-5508-3400	12-010	

STE/LOCATION 4411 Foothill Boulevard, Oakland, CA 5/21/93						3	10 Inches	ANGLE/BEARING 90 Degrees	S-3		
DRILLING CONTRACTOR COMPLETED						200	FIRST ENCOUNTERED WATER DEPTH		BOTTOM OF BORING		
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HOOT TOO!	SPACE *	DEPTH	WATER	WELL CONSTR.	GRAPHIC LOG	MATER	IAL CLASSIFICA	TION & PHYSICAL	. DESCRIPTION		
90		13			0000	Sandy angula	GRAVEL (GP) r gravel; 35% f	; brown; poorly g ine to coarse sand	raded; fine sub- d; 10% clay; moist.		
32					Clayey GRAVEL (GC); brown; poorly graded; fine sub- angular gravel; 30% clay; 10% fine to coarse sand; wet.						
	244	15				Fat CLAY (CH); light brown with grey mottling; high plasticity; 10% fine to medium, angular to subrounded sand; wet.					
29		16									
33			A			Clayey SAND (SC); brown; poorly graded angular to rounded sand; 20% clay; 10% f					
		17	t l		1111	0		-,,,-	Brutes, met.		
I H H H				Fat CLAY (CH); light brown; high plasticity; moist.							
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DATE: June 7, 1993						_		nd, CA	12-010		
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CONFIDENTIAL

STATE OF CALIFORNIA DWR WELL COMPLETION REPORT (WELL LOGS)

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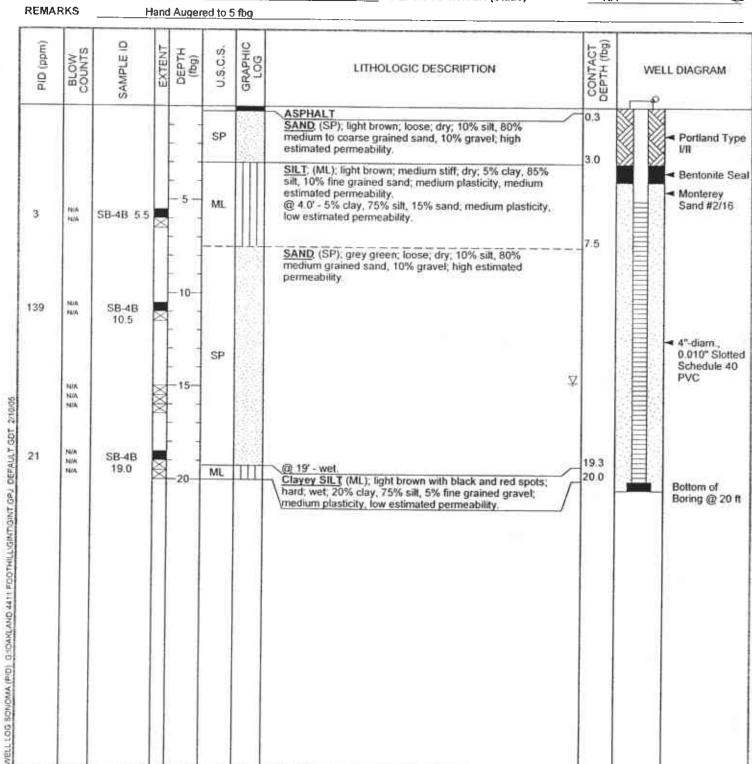


BURING/WELL LOG

PAGE + CF

5900 Hollis Street Suite A Emeryville, CA 94608 Telephone: (510) 420-0700 Fax: (510) 420-9170

CLIENT NAME Shell Oil Products US BORING/WELL NAME S-4 (SB-4B) JOB/SITE NAME Shell-branded Service Station DRILLING STARTED 07-Jan-00 LOCATION 4411 Foothill Blvd, Oakland DRILLING COMPLETED 07-Jan-00 PROJECT NUMBER 244-0897 WELL DEVELOPMENT DATE (YIELD) 29-Mar-00 DRILLER Gregg Drilling GROUND SURFACE ELEVATION DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION 38.70 ft BORING DIAMETER 10" SCREENED INTERVAL _ 5 to 20 fbg LOGGED BY M. Gaffney DEPTH TO WATER (First Encountered) 14.8 ft (07-Jan-00) REVIEWED BY__ S. Bork, RG# 5620 **DEPTH TO WATER (Static)** NA





LOGGED BY

REVIEWED BY__

Cambria Environmental Technology, Inc. 5900 Hollis Street Suite A Emeryville, CA 94608 Telephone: (510) 420-0700

Fax: (510) 420-9170

S. Couch

M. Derby, PE# 55475

BORING/WELL LOG

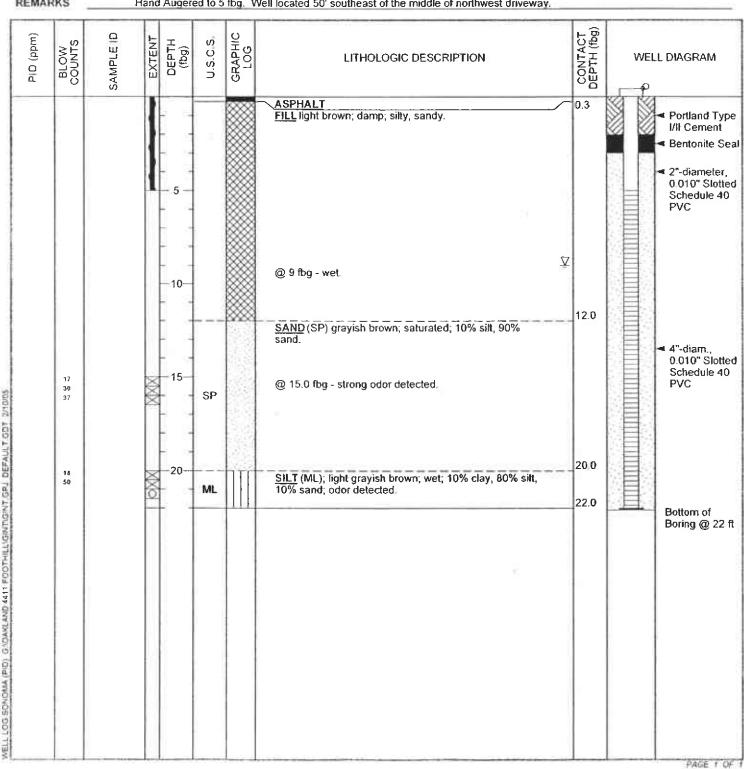
DEPTH TO WATER (First Encountered) 9.0 ft (09-May-02)

NA

DEPTH TO WATER (Static)

BORING/WELL NAME **CLIENT NAME** Shell Oil Products US S-5 JOB/SITE NAME Shelf-branded Service Station DRILLING STARTED 09-May-02 DRILLING COMPLETED 09-May-02 LOCATION 4411 Foothill Blvd, Oakland PROJECT NUMBER 244-0897 WELL DEVELOPMENT DATE (YIELD) NA DRILLER Gregg Drilling **GROUND SURFACE ELEVATION** DRILLING METHOD Hollow-stem auger TOP OF CASING ELEVATION NA BORING DIAMETER 10" SCREENED INTERVAL 5 to 22 fbg

Hand Augered to 5 fbg. Well located 50' southeast of the middle of northwest driveway. REMARKS



ATTACHMENT B

Standard Field Procedures for Monitoring Well Destruction

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STANDARD FIELD PROCEDURES FOR MONITORING WELL DESTRUCTION

This document presents standard field methods for destroying groundwater monitoring wells. The objective of well destruction is to destroy wells in a manner that is protective of potential water resources. The two procedures most commonly used are pressure grouting and drilling out the well. These procedures are designed to comply with Federal, State and local regulatory guidelines. Specific field procedures are summarized below.

Pressure Grouting

Pressure grouting consists of injecting neat Portland cement through a tremie pipe under pressure to the bottom of the well. The cement is composed of about five gallons of water to a 94 lb. sack of Portland I/II Cement. Once the well casing is full of grout, it remains pressurized for five minutes by applying a pressure of 25 (pounds per square inch) psi with a grout pump. The well casing can also be pressurized by extending the well casing to the appropriate height and filling it with grout. In either case, the additional pressure allows the grout to be forced into the sand pack. After grouting the sand pack and casing, the well vault is removed and the area resurfaced or backfilled as required.

Well Drill Out

When well drill out is required, the well location is cleared for subsurface utilities and a hollowstem auger drilling rig is used to drill out the well casing and filter pack materials. First, drill rods are dropped down the well and used to guide the augers as they drill out the well. Once the well is drilled out, the boring is filled with Portland cement injected through the augers or a tremie pipe under pressure to the bottom of the boring. The well vault is removed and the area resurfaced or backfilled as required.

F:\TEMPLATE\SOPs\Well Destruction SOP.doc

ATTACHMENT C

ACPWD Permits



COUNTY OF ALAMEDA
PUBLIC WORKS AGENCY
WATER RESOURCES SECTION
399 Elmhurst Street, Hayward, CA 94544-1395
James Yoo PH: (510) 670-6633 FAX: (510) 782-1939
FOR GENERAL DRILLING PERMIT INFO:
WWW.acgov.org/pwa/wells

FAX TRANSMITTAL

TO: Cambria Ent

DATE: 2-16-05

Attn: Stewart Dalle

FAX NO .: (510) 420-5170

TRANSMITTING THE FOLLOWING:

SHEETS DATED TITLE/DESCRIPTION

TOTAL PAGES INCLUDING THIS SHEET.

FROM WATER RESOURCES SECTION

NAME:

JAMES YOO

TEL: (510) 670-6633

FAX: (510) 782-1939

E-MAIL: jamesv@acpwa.org

DPA-W05-0195-0199 & conditive

IF YOU EXPERIENCE PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL ME.

REMARKS: FYI: EFFECTIVE NOVEMBER 1, 2004

SCHEDULING WORK/INSPECTIONS

Alameda County Public Works Agency (ACPWA), Water Resources Section requires scheduling and inspection of permitted work. All drilling activities must be scheduled in advance. Availability of inspections will vary from week to week and will come on a first come, first served bases. To ensure inspection availability on your desired or driller scheduled date, the following procedures are required:

- Please contact George Bolton at 510-670-5594 to schedule the inspection date and time (You must have drilling permit
 approved prior to scheduling).
- Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

Once the work has been scheduled, an ACPWA Inspector will coordinate the inspection requirements as well as how the Inspector can be reached if they are not at the site when inspection is required. Expect for special circumstances given, all work will require the inspection to be conducted during the working hours of 8:30am to 2:30pm. Monday to Friday, excluding holidays.

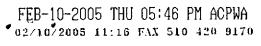


WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395

PHONE (510) 670-6633 James Yes

FAX (510) 782-1939 WWW.befewed.org APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATION DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

LOCATION OF PROJECT HALL FOOTHILL BIVE.	FOR OFFICE USE PERMIT NUMBER WO5-0/95 WELL NUMBER APN
	PERMIT CONDITIONS
CLIENT Name Stell OT Products (c. (U.5) Address 20445 5 HJ Mark Phone (S.5) 645-9306 City (G.Sch.) (A ton Zip 30810	Circled Permit Requirements Apply A. GENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office live days prior to roposed starting date.
Name Cambria 941 Technology St. Dalle Fax 570 (196) (170 Address 5100 halles 56 5/r A thone 510 (170-33) 9 City Energy (1) e, CA Zip 9,4608	2. Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources-Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date. B. WATER SUPPLY WELLS 1. Minimum surface soul thickness is two inches of
TYPE OF PROJECT Well Construction Calludic Protection Warer Supply Monitoring General Contamination Well Destruction	cement grout placed by tremic. 2. Minimum seal depth is 50 feet for municipal and industrial wells in 20 feet for domestic and irrigation wells in the same state of the property approved. C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic U Replacement Cornestic L Municipal II Irrigation C Industrial U Other II	1. Minimum surface sent thickness is two inches, of coment group placed by tremie. 2. Minimum seal depth for manitoring wells is the maximum depth practicable of 20 feet. D. GROTECHNICAL/CONTAMINATION
MRILLING METHOD: Mid Rotary II Air Rotary I Auger II Cable II Other A Pressure growt	Backfill bore hole by fremie with cement grout or cement grout/sand mixture. Upper two-three feet replaced in kind or with compacted cuttings. E. CATHODIC
DRILLER'S LICENSE NO. 285-165	Fill hole anode zone with congrere placed by tremie. F. WELL DESTRUCTION Send a map of work site! A separate permit is required for wells deeper than 45 feet.
WELL PROJECTS Drill Hole Diameter in. Maximum Casing Diameter in. Depth ft. Surface Scal Depth II. Owner's Well Number (5-1)	G. SPECIAL CONDITIONS NOTE: One application must be submitted for each well or well destruction. Multiple horings on one application are acceptable for geotochnical and contamination invastigations.
GEOTECHNICAL/CONTAMINATION PROJECTS Number of Borings Maximum Hole Diumeter in Depth ft.	
STARTINGDATE <u>between May 1</u> st 05	
COMPLETION DATE to TULY 15th 0.5 CONSTRUCTION SCINCELLIS	
I hereby agree to comply with all coquirements of this permit and Almorda County Ordinauce i	No. 73-68.
APPLICANT'S SIGNATURE DATE 2110	105/ 11
PLEASE PRINT NAME STOWART A. Dalie IV ROUS-11-04	·
	\





WATER RESOURCES SECTION
199 ELMHURST ST. HAYWARD CA. 94544-1395
PHONE (519) 670-6633 James You

FAX (510) 782-1939 WWW.3cfcwcd.org APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING FERMIT APPLICATIONS DESTRICTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 4411 Footbill BIVE.	PERMIT NUMBER WOS-0196 WELL NUMBER APN
	PERMIT CONDITIONS Circled Permit Requirements Apply
CHENT Name Steel Of Products (p. (U.S.) Address 20945 5 LU (MILE Phone SEG) 645-930 t. City (CUSCIL) CA TEN Zip QUSTO APPLICANT Name (A MILE ST. ST. A Phone 510 420-333 c) City Exercity VIII e. (A Zip G 450%	GENERAL I. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date. 2) Submit to ACPWA within 60 days after completion of permitted original Department of Water Resources. Well Completion Report. 3. Permit is void if project not began within 90 days of approval date B. WATER SUPPLY WELLS I. Minimum surface seal thickness is two piches of
TYPE OF PROJECT Well Construction Cathodia Protection Cathodia Protection U Water Supply U Monitoring U Well Destruction Cathodia Protection U Well Destruction	cement grout placed by tremic. 2. Minimum seal depth is 50 feet for municipal and Industrial wells of 70 feet for domestic and irrigation wells unless a lesser depth is specially approved. C. GROUNDWATER MONITORING WELLS
PROPOSED WATER SUPPLY WELL USE New Domestic	INCLUDING PIEZOMETERS 1. Minimum surface real flucturess is two justices of common group placed by tremie. 2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 (seat. D. GEOTECHNICAL/CONTAMINATION
DRILLING METHOD: Mid Rotary Air Rotary & Auger Auger Cable Other > Pressure great DRILLER'S NAME Truck Drilling	Backfill have hale by tremic with coment grout or coment grout/sand mixture. Upper two-three feet replaced in kind or with compacted outrings. E. CATHODIC
DRILLER'S LICENSE NO. 485-165	Fill hole anoste zone with concrete placed by tremie. F. WELL DESTRUCTION Send a map of work site. A separate permit is required for wells deeper than 45 feet. G. SPECIAL CONDITIONS
WELL PROJECTS Drill Hole Diameter O4 in. Maximum 2 it. Casing Diameter O4 in. Depth 12 it. Surface Seal Depth C45 it. Owner's Well Number (S-2)	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
GEOTECHNICALICONTAMINATION PROJECTS Number of Burings	
STARTINGDATE DETWIN May 15+05	0.000
COMPLETION DATE to July 15+05 (CONSTRONT) School	e. APPROVED DATEDATE
I hereby agree to comply with all requirements of the permit and Alameda County Ordinance	. / / 3 8
APPLICANT'S SIGNATURE DATE 2/11	
PLEASE PRINT NAME STOWART A. Dalie II Rev. S. 11.0	04



WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 670-6631 Jumes Yoo

PAX (510) 782-1037

PAX (510) 782-1037

PAY (510) 782-1037

APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 4411 Footbill Blvd.	PERMIT NUMBER W15-0198
Darkland, CA	WELL NIMBER
	<u> </u>
Of ICEP	PERMIT CONDITIONS Circled Permit Requirements Apply
Namo Stell Cil Products (o. (U.S)	A. GENERAL
Address 20945 5 W. Maria Phone (50) 645-9306 City (11314 CA 180 2ip 20810	1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to
APPLICANT	proposed starting date.
Name Cambria Fur To chadlace	2. Submit to ACPWA within 60 days after completion of committed original Department of Water Resources.
Address 5:00 1+110 st 5+4 Phone 510 4/20 3339	Well Completion Report. 3. Permit is void if project put begun within 90 days of
Ciny Encoyvelle, CA Zip G. 4608	approval date B. WATER SUPPLY WELLS
Type of Project	 Minimum surface seat thickness is two inches of content prout placed by truggle,
Well Construction Gottechnical Investigation Cathodic Production (I) General (1)	 Minimum seal depth is 50 feet for municipal and Industrial wells or 20 feet for domestic and irrigation
Water Supply Contamination C	wells unless a lesser depth is specially approved.
PROPOSED WATER SUPPLY WELL USE	C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
New Domestic Replacement Promestic [7]	 Minimum surface seal thickness is two inches of content grout placed by trende.
Monicipal 1 Irrigation D	2.Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
DRILLING METHOD:	D. GEOTECHNICAL/CONTAMINATION Backfill bore hole by tremie with cament grout or cament
Mad Rober D Air Rober H Auger D Cable D Other X - Pressure growt	grout/sand mixture. Upper two-three feet replaced is kind or with compacted cuttings.
DRILLER'S NAME CTICLE DOLLIGHT	E. CATHODIC
DRILLER'S LICENSE NO. 485-165	Fift hole anode zone with concrete placed by tremie. F. WELL DESTRUCTION — FGH I Send a map of work sile. A separate permit is required
-	for wells deeper than 45 feet,
WELL PROJECTS	G. SPECIAL CONDITIONS
Casing Diameter 47 in Denth 20 ft	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable
Surface Seal Depth 1 Owner's Wall Number S-4(58-413)	for geotechnical and contamination investigations.
Number of Borings Maximum	
Hole Diameter in. Depthtt.	
STARTING DATE DETTURN May 1 05) Devoling	hu) a
COMPLETION DATE TO JULY 150 05 CONSTRUCTION SCIENCE	APPROVED DATE
I hereby agree to comply with all requirements of this pramit and Allameda County Ordinance N	No. 73-68.
APPLICANT'S SIGNATURE DATE 2/10	. / / \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
PLEASE PRINT NAME STOWART A. Dulie IV Roy 5-11-04	





WATER RESOURCES SECTION 399 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 670-6633 James You

FAX (510) 782-1939 WWW.sefewed.org APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 35 FEET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT 4411 Foothill Blod.	PERMIT NUMBER
	PERMIT CONDITIONS Circled Permit Requirements Apply
Name Stell Oil Predicts (o. (U.S) Address 20947 S. W. MILLS Phone (SS) 145-9306 City (ar. 500) CA LEW Zip 9880	A. GENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to proposed starting date.
APPLICANT Name Caputoria FW. Technology - Stu Declina FW 510 420 9170 Address 5100 Hellis St. St. A Phone 510 420 33391 City Emology III e. (A 2ip 9,4008	2. Submit to ACPWA within 60 they after completion of fermitted original Department of Water Resources-Well Completion Report. 3. Permit is void if project not begun within 90 days of approval date B. WATER SUPPLY WELLS
TYPE OF PROJECT Well Construction Geometrical Investigation Cathodic Projection Geometrical Construction Geometrical Con	Minimum surface seal thickness as two inches of coment grout placed by troute. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS
PROPOSED WATER SUPPLY WELL USE New Domestic D Replacement Domestic D Municipal H Irrigation D Industrial D Other D	Minimum surface seal thickness is two inches, of coment grout placed by tremie. Minimum seal depth for mountoing wells is the maximum depth practicable or 20 feet. D. GEIFFELMICAL/CONTAMINATION
DRILLING METHOD: Mud Rotary D Air Rotary D Auger D Cable D Other A P-ESSIVE GRUT-	Backfill bore hole by tremis with centert growt or coment growtheard mixture. Upper two-thace feet replaced in kind or with compacted entings. E. CATHODIC Fill hole anode zone with congrete placed by tremic.
DRULLER'S LICENSE NO. 485-1654	F.) WELL DESTRUCTION — DG # 7 Send a map of work side. A separate permit is required for wells deeper than 45 feet. G. SPECIAL CONDITIONS
WELL PROFECTS Drill Hole Diameter 10 in. Maximum 2 ft. Casing Diameter 4 in. Depth 2 ft. Surface Sed Depth 3 it. Owner's Well Number (5-5)	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for georechnical and continuouslina investigations.
GEOTECHNICAL/CONTAMINATION PROJECTS Number of Borings Maximum Hole Diameter in. Depth f.	
COMPLETION DATE to July 15+05 particy	APPROVED DATE 210-05
Hereby agree to comply with all requirements of this permit and Alameda County Ordinato	
PLEASE PRINT NAME 5 TO WART A. Dale II	-04



WATER RESOURCES SECTION 349 ELMHURST ST. HAYWARD CA. 94544-1395 PHONE (510) 678-6633 Jumes You

FAX (510) 782-1939 www.acfewed.org APPLICANTS: PLEASE ATTACH A SITE MAP FOR ALL DRILLING PERMIT APPLICATIONS DESTRUCTION OF WELLS OVER 45 FEET REQUIRES A SEPARATE PERMIT APPLICATION

FOR APPLICANT TO COMPLETE	FOR OFFICE USE
LOCATION OF PROJECT HALL Foothill Blvd.	PERMIT NUMBER W5-0191
	PERMIT CONDITIONS
CLIENT	Circled Permit Requirements Apply
Address 20745 S. W. M. M. Phone (Sea) 645-9366 City (10500 CA ten Zip 92510	A. GENERAL 1. A permit application should be submitted so as to arrive at the ACPWA office five days prior to
APPLICANT Name Cambria Ful Technology - Stu Dolls - Fax 70 470 5170	Trapased starting date, 2. Submit to ACPWA within 60 days after completion of permittent original Department of Water Resources-Well Completion Report.
Address STOO Hallis St. SteA Phone 510 420-3339	5. Permit is void if project not begun within 90 days of approval date
•	B. WATER SUPPLY WELLS 1. Minimum surface seaf thickness is two inches of
Well Construction Geotechnical Investigation	coment grout placed by tremie. 2. Minimum seal depth is 50 feet for municipal and
Cathodio Protection G General G Water Supply G Contamination ()	Industrial wells or 20 feet for domestic and irrigation wells upless a lesser depth is specially approved.
Monitoring 3 Well Destruction	C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMISTERS
PROPOSED WATER SUPPLY WELL USE New Domestic 11 Replacement Domestic []	 Minimum surface such thickness is two inches of coment grout placed by tremis.
Municipal lingation	2.Minimum seal depth for monitoring wells is the maximum depth practicable or 20 foct.
DRILLING METHOD:	B. CKOTECHNICAL/CONTAMINATION Backful bore hole by writin with centent grout or cement
Mud Rotary il Air Rotary il Auger il .	grout/sand nuxture. Upper two-three feet replaced in kind
ORILLEN'S NAME (TYCL) DOLLARLY	or with compacted cuttings. E. CATRODIC
1200	Fill hole anode zone with concrete placed by tremic. F) WELL DESTRUCTION — PG-14-1
DRILLER'S LICENSE NO. 485 - 185	Soud a map of work site. A separate permit is required for wells deeper than 45 feet.
WELL PROJECTS	G. SPECIAL CONDITIONS
Drill Hole Diameter 10 in. Maximum Casing Diameter 11 in. Depth 20 ft Surface Scal Depth 5.5 ft. Owner's Well Number (S-3)	NOTE: One application must be submitted for each well or well destruction. Multiple borings on one application are acceptable for geotechnical and contamination investigations.
GEOTECHNICAL/CONTAMINATION PROJECTS Number of Borings Maximum Hole Diameter in. Depth ft.	
STARTING DATE between May 15+05	1 of the second second
COMPLETION DATE to July 157 05 CONSTRUCT	APPROVED APPROVED DATE
I hereby agree to comply with all requirements of the permit and Alameda County Ordinar	nce No. 73 6K.
APPLICANT'S SIGNATURE DATE 2	10/05
PLEASE PRINT NAME STOWART A. Daliz II ROV 5-1	1-04
	\searrow \searrow



WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

PERMIT NO. W05-0195-0199

WATER RESOURCES SECTION
GROUNDWATER PROTECTION ORDINANCE
Descriction of Wells (Lass than 45 feet in depth)

Destruction Requirements: PRESSURE GROUTING # 1

- Remove any casing(s) and annular seal to 3-5 feet below finished grade of original ground, whichever is the lower elevation. If well(s) are obstructed, then drill out to original depth.
- 2. Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.
- After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.
- Drilling permits are valid from the start date to the completion date. Permits can be extended by a phone call, but
 drilling permit applications will not be extended beyond 90 days from the approved start date. Permit is valid
 from May 1 to July 1, 2005.
- 5. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where wok is being completed.
- 6. Permit is valid only for the purpose specified herein. No changes in construction procedures, as described on this permit application. This permit may be voided if it contains incorrect information.
- 7. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 8. Compliance with the above well-scaling specifications shall not exempt the well-scaling contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including: permit number and site map.
- 9. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 10. Applicant shall contact George Bolton for a inspection time at 510-670-SS94 at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.