

GEOSCIENCE & ENGINEERING CONSULTING

March 8, 2006

Ms. Jocelyn Habal Senior Environmental Health Specialist Contra Costa County Health Services Department Environmental Health Division 2120 Diamond Boulevard, Suite 200 Concord, CA 94520

Ms. Lynn Nakashima California Department of Toxic Substances Control 700 Heinz Street, Suite 100 Berkeley, California 94710-2721

Subject: Well Closure Documentation Report

University of California Berkeley – Richmond Field Station

1301 S. 46<sup>th</sup> Street, Richmond, California

Dear Ms. Habal:

#### INTRODUCTION AND BACKGROUND

On behalf of the property owner, University of California – Berkeley (UC Berkeley), Stellar Environmental Solutions, Inc. (SES) is submitting this technical documentation report discussing the permanent destruction (decommissioning) of 27 wells (including 3 shallow piezometers) at the referenced site. One additional well was found to be previously closed. The work was initiated at the request of the Contra Costa County Health Services Department – Well Section (CCCHSD), as the wells serve no current or anticipated research function.

Technical specifications for the well closures (Stellar Environmental Solutions, 2005a) were submitted to CCCHSD and to the California Department of Toxic Substances Control (DTSC), who requested some technical revisions to the well closure methodology. Revised technical specifications incorporating DTSC's comments and were subsequently re-submitted to CCCHSD and DTSC (Stellar Environmental Solutions, 2005b). Field conditions dictated obtaining from CCCHSD variances from the final technical specifications, as discussed below.

The main wellfield was installed in the early 1950s by UC Berkeley as part of a State of California-funded research project on deep well injection and contaminant transport (Final Report on Laboratory and Field Investigations of the Travel of Pollution From Direct Recharge into Underground Formations, University of California, Berkeley, December 31, 1954). Information on well installation, usage, and construction was obtained from the 1954 report (which was included in our 2005 Technical Specifications package).

The three shallow piezometers were installed in September 2002 as temporary groundwater monitoring points to determine groundwater flow direction, as part of ongoing site contaminant investigations. These piezometers are not related to the 1950s research wellfield, and UC Berkeley has determined that these piezometers are no longer needed.

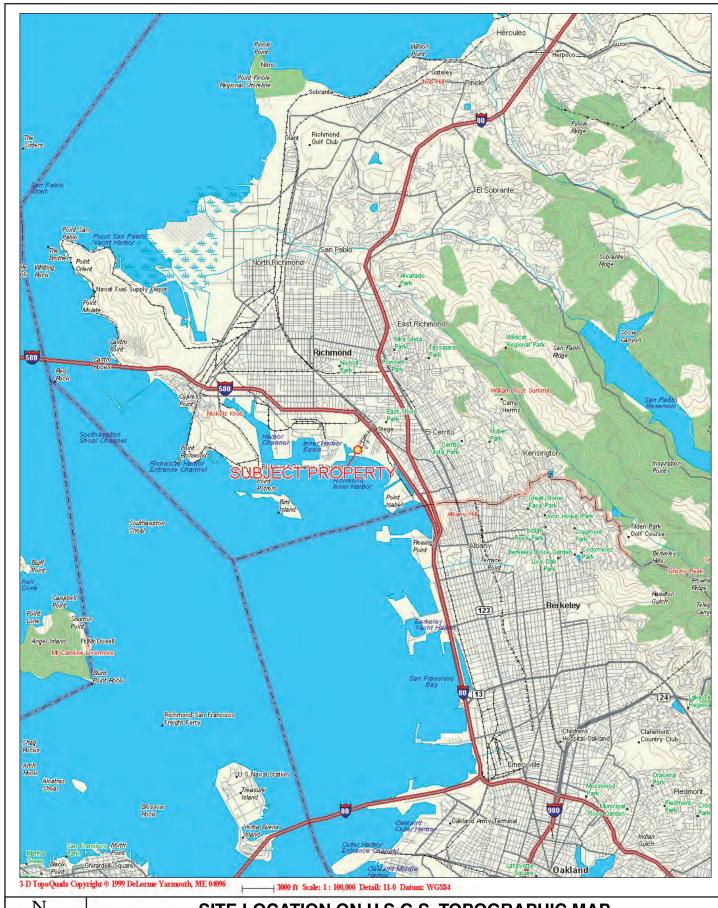
The Richmond Field Station site is located immediately southwest of Interstate 580 (I-580) in western Richmond, California. Figure 1 is a site location map. The 1950s wellfield is located in the central portion of the site (near San Francisco Bay); most of the wells are within the grassy undeveloped field immediately to the north of Crow Drive. Figure 2 is a site plan showing the area of the 1950s wellfield, and the location of the piezometers. Figure 3 is a detail map showing the 1950s wellfield. The 1950s wellfield dimensions are approximately 600 feet long (north to south) by 150 feet wide (east to west, at its widest point). The piezometers are located farther to the south and southeast of the 1950s well field.

#### 1950'S WELL INSTALLATION AND USAGE

The main wellfield was installed in the early 1950's as part of a research project funded by the California Regional Water Quality Control Board (Water Board). The project evaluated the feasibility of subsurface injection (recharge) of sewage waste effluent. Two types of wells were installed: recharge (injection) wells (2), and observation wells (23).

Following completion of the 1953 study, some or all of the wells were used in subsequent (1960s) studies involving groundwater transport. These studies used radiological isotope tracers: tritium (H3); two isotopes of strontium (Sr89 & Sr90); cesium (Cs137); and yttrium (Y90). Most recently, the "Final Recharge Well" was utilized for localized onsite irrigation.

As shown in Table 1, three wells documented in the 1954 report could not be located, either by visual inspection of the area or a metal detector survey. These wells were either previously closed, paved over or built over.





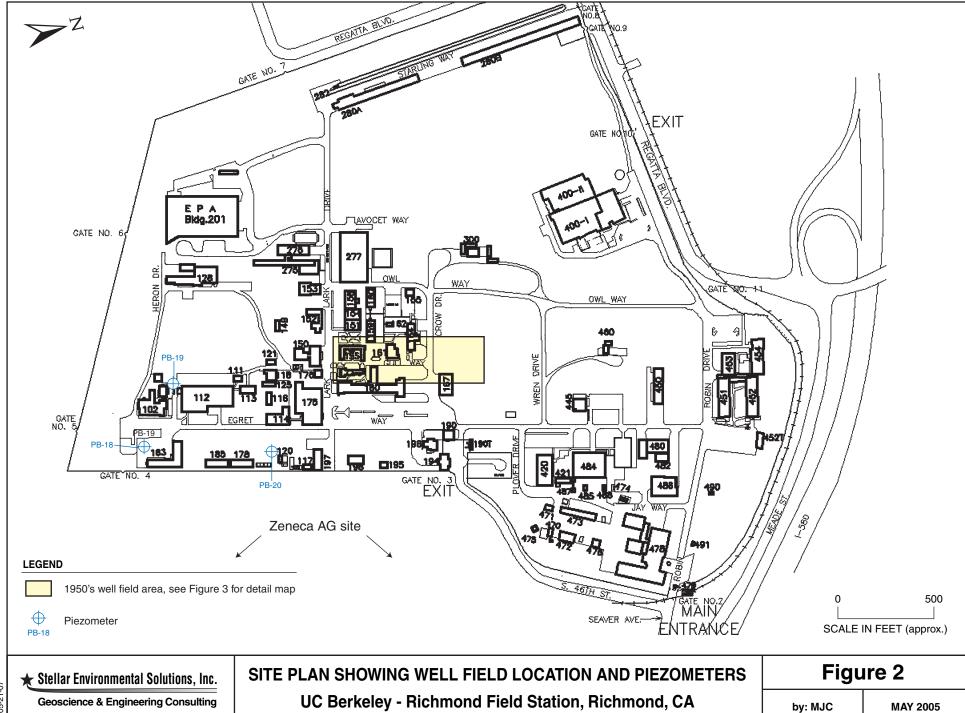
## SITE LOCATION ON U.S.G.S. TOPOGRAPHIC MAP

UC Berkeley/Richmond Field Station
Richmond, CA

r: MJC MARCH 2005

Stellar Environmental Solutions, Inc.

Geoscience & Engineering Consulting



2005-21-07

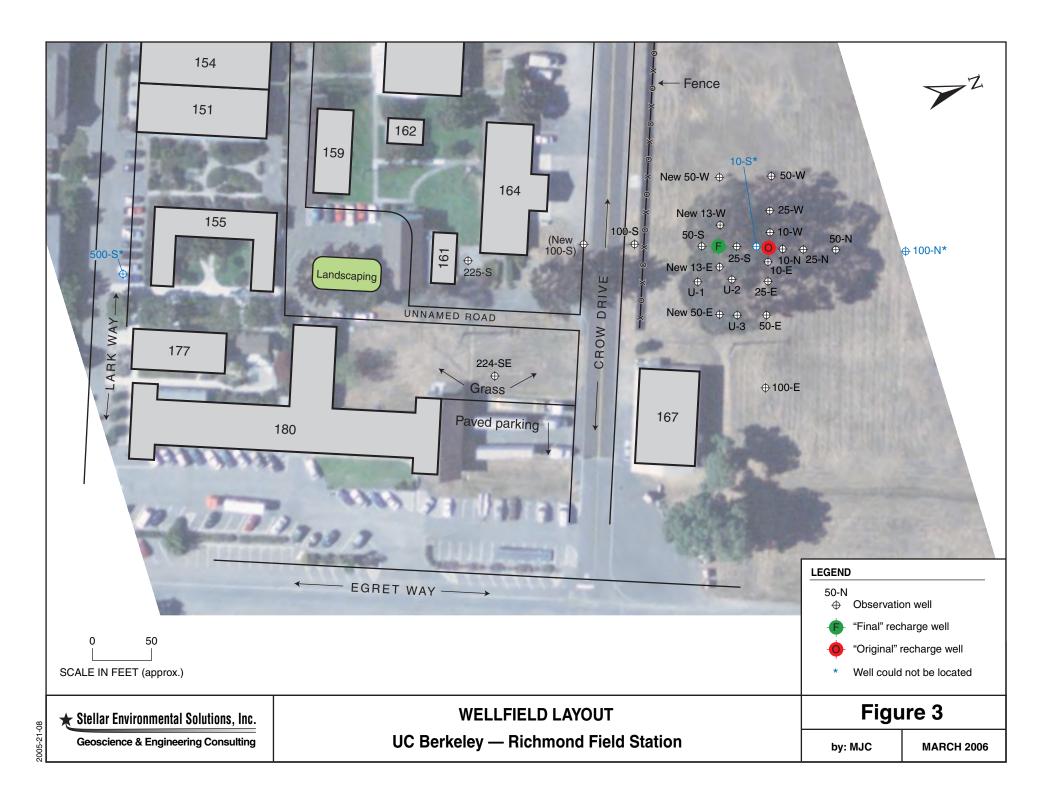


Table 1
Groundwater Well and Piezometer Construction and Grouting Data
UC Berkeley – Richmond Field Station, Richmond, California

Well / Piezometer	Well Depth - Installed <sup>(a)</sup>	Well Depth - 2006 (b)	Screened Interval	Anticipated Grout Volume (gals) (c)	Emplaced Grout Volume (gals)
Recharge Wells (12-inch stee	-			(B)	,
"Original" Recharge Well	112	94	102 – 112 (10')	536	~530
"Final" Recharge Well	102	100	90 – 100 (10')	580	~600
Observation Wells (6-inch sto	eel casing)				
10-East	105	98	94 – 101 (7')	147	~150
25-East	103	100	92 – 99 (7')	150	~150
50-East	102	110	92 – 99 (7')	165	~160
100-East	102	100	94 – 101 (7')	150	~150
New 13-East	103	100	94 – 102' (8')	150	~150
New 50-East	101	97	89 – 97 (8')	146	~150
10-North	102	100	91 – 98 (7')	150	~150
25-North	105	106	94 – 101 (7')	159	~155
50-North	103	93	92 – 99 (7')	140	~140
100-North	103	not located	92 – 99 (7')		
10-West	105	97	95 – 102 (7')	146	~150
25-West	105	65	94 – 101 (7')	98	~90
50-West	102	64	91 – 98 (7')	96	~90
New 13-West	101	94	91 – 99 (8') <sup>(c)</sup>	141	~140
New 50-West	104	96	94 – 103 (7')	144	~140
10-South	105	not located	95 – 102 (7')		
25-South	105	100	94 – 101 (7')	150	~150

Table 1 (continued)

Well / Piezometer	Well Depth - Installed <sup>(a)</sup>	Well Depth - 2006 <sup>(b)</sup>	Screened Interval	Anticipated Grout Volume (gals) <sup>(c)</sup>	Emplaced Grout Volume (gals)		
50-South	105	97	94 – 101 (7')	146	~140		
100-South	110	98	100 – 107 (7')	147	~140		
New 100-South	101	(e)	92 – 99 (7')				
225-South	100	100	92 – 99 (7')	150	~150		
500-South	104	not located	96 – 103 (7')				
224-Southeast	100	98	92 – 99 (7')	147	~150		
Additional Site Wells Not Documented in 1954 Report (6-inch steel casing)							
U-1	not documented	102	not documented	153	~150		
U-2	not documented	101	not documented	152	~150		
U-3	not documented	92	not documented	138	~135		
Piezometers (1/2-inch PVC, pre-packed well screens and casing, overdrilled with 8-inch augers)							
PB-18	16	12	6 -16	42	40		
PB-19	16	13	6 -16	42	40		
PB-20	16	12	6 -16	42	40		

#### Notes:

All depths are in feet below ground surface.

<sup>(</sup>a) Depth documented in 1954 well installation report

<sup>(</sup>b) Depth to which 3/4-inch tremie pipe could be delivered during 2006 well closures.

<sup>(</sup>c) Calculated as 1.5 gallons/foot casing (6-inch wells) and 5.8 gallons/foot casing (12-inch wells) x 2006 probed depth.

<sup>(</sup>d) Calculated as 2.6 gallons/foot casing (8-inch diameter augered-borehrole x drill depth.

<sup>(</sup>e) The well appears to be previously closed - filled with rock and soil to at least 6 feet below ground surface.

Our recent inspections identified an additional three wells, in the main wellfield area, that were not documented in the 1954 study report (named the "U" wells for this project). The "U" wells are of similar construction and depth to the 1950s wells, and we presume they were installed within that time period. No documentation was available regarding those additional wells.

A detailed discussed of the well construction specification and water quality sampling was presented in the December 8, 2005 well closure workplan (SES, 2005b). The 1950s wells were completed (screened) solely in the water-bearing zone present between approximately 90 and 100 feet below grade, and were sealed off from the overlying water-bearing zones. Equilibrated water levels measured in the 1950s wells in April 2005 were approximately 3 to 4 feet below grade, indicating confining conditions. The direction of local groundwater flow is inferred to be to the south (toward San Francisco Bay).

The piezometers are screened from 6 to 16 feet. In the one piezometer with a borehole geologic log (PB-19), lithology encountered was a dry, stiff clay (0 to 10 feet) underlain by wet gravelly sand (11 to 12 feet) underlain by a wet sand (12 to 14 feet) underlain by a wet stiff clay (14 feet to bottom of borehole). Groundwater in these piezometers is from the uppermost water-bearing zone, and is not connected to the underlying water-bearing zone in which the 1950s wells are screened.

#### WELL CONSTRUCTION SPECIFICATIONS

This section discusses key well and piezometer construction specifications (as defined in the 1954 study report), which are summarized in Table 1.

#### **Original Recharge Well**

- Cable-tool installed with steel casing driven to completion depth
- 6-inch-diameter steel slotted casing (7 feet long), with 28 slots each measuring ½-inch wide by 6 inches long
- 6-inch-diameter steel riser casing to surface
- No annular space, filter pack material, or annular pollution seal

#### **Documented 1953 Observation Wells**

- Cable-tool installed with steel casing driven to completion depth
- 6-inch-diameter steel slotted casing (7 feet long), with 28 slots each measuring ½-inch wide by 6 inches long
- 6-inch-diameter steel riser casing to surface
- No annular space, filter pack material, or annular pollution seal

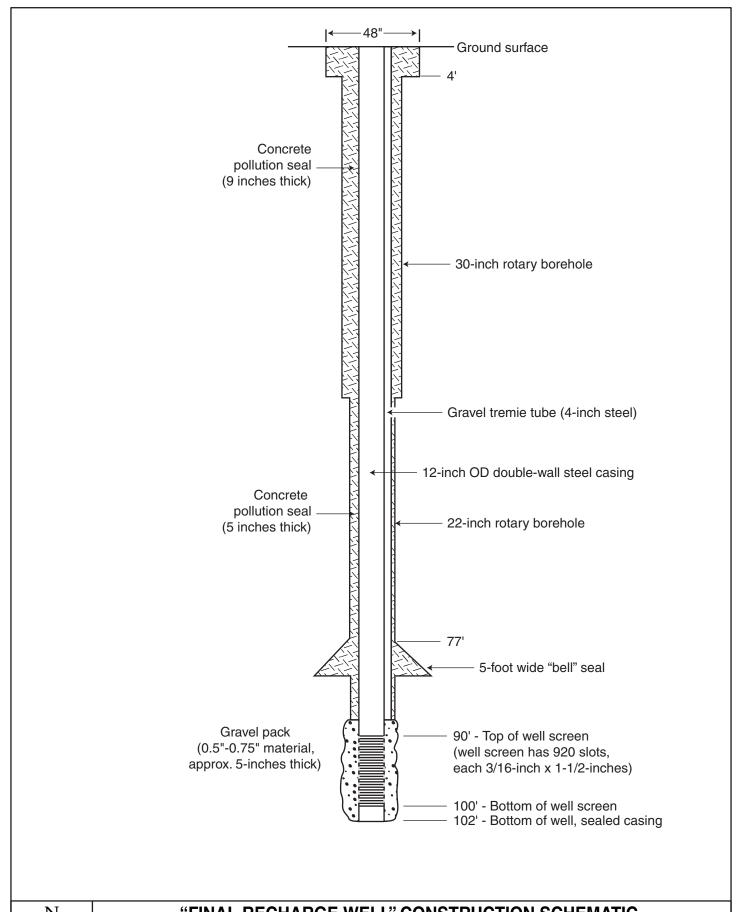
### **Final Recharge Well**

Figure 4 is a construction detail of the final recharge well.

- Rotary-drilled with temporary 36-inch and 24-inch casings (pulled during completion)
- 22-inch final borehole diameter at screened interval
- 12-inch steel (double-walled) casing, screened across the aquifer, with gravel-pack (annular material) across the screen.
- Steel screen (3/16-inch by 1.5-inch) from 90' to 100', across the aquifer with gravel annular pack
- 4-inch steel tremie tube in annulus, open at the base (for adding annular pack material after development) (this tube was left in place and was encapsulated by the annular seal).
- Tremie-grouted concrete as annular pollution seal from approximately 88 feet bgs to surface.

#### **Piezometers**

The three piezometers were all constructed of ½-inch-diameter Schedule 40 PVC, and were prepacked (sand enclosed around well screen by fine wire mesh). The installed depths of the piezometers were 16 feet and were screened from 6 to 16 feet. Sounded depths (July 2005) ranged from approximately 12 to 13.5 feet (with soft bottoms), indicating that the lower several feet of each piezometer had infilled with sediment.





UC Berkeley-Richmond Field Station

By: MJC MARCH 2005
FIGURE 4

### Additional, Undocumented Observation Wells

In surveying the wellfield, we identified three wells not documented in the 1953 study, which we have identified as U-1, U-2, and U-3. These wells have similar construction specifications and depths as the observation wells, and we infer that they are of the same type. Based on their locations, we have determined that these wells are not wells 500-South, 10-South, and 100-North (the three documented observation wells that could not be located in our initial survey — see previous section).

#### WELL CLOSURE PERMITTING AND REGULATORY AGENCY LIAISON

On behalf of UCB, SES prepared and submitted to CCCHSD well closure permit applications for all the wells being closed. Copies of the approved permits, and subsequent CCCHSD variance approvals, are included as Attachment A. Notifications of project schedule and activities were made to CCCHSD. California Department of Water Resources (DWR) Well Completion Forms (for well destructions) were completed and submitted to DWR. Copies of the completed forms are included in Attachment A. Ms. Jocelyn Habal of CCCHSD provided onsite inspections of well closure activities.

#### WELL CLOSURE ACTIVITIES

The ultimate objective of proper well destruction is to minimize the potential for cross-contamination between water-bearing zones that might occur due to the former well. The closure methods implemented are in substantive accordance with Chapter 414-4 of the Ordinance Code of Contra Costa County Ordinance, verbal discussions with Mr. Sherman Quinlan of CCCHSD, and the DTSC comments in its letter of September 29, 2005.

Well closures were conducted by Water Development Company (Zamora, California; C-57 license no. 283326), under direct supervision of Stellar Environmental Solutions, Inc.

The following discusses the well closure activities. Attachment B contains photodocumentation of key activities.

#### **VIDEO CAMERA SURVEY**

Pre-closure well probing indicated an obstruction in "Original Recharge Well" at a depth of 97 feet. At the request of DTSC, a downhole video camera survey was conducted (by Welenco,

under SES supervision) on January 30, 2006. Still photographs at key depths are included in Attachment B. The survey allowed side-scan and downward views. The survey showed the following:

- Full visibility was available from surface to 90 feet bgs, and showed the casing to be intact, but with significant scaling, with no screen or perforations.
- Soft sediment was encountered from 90 feet bgs to 97 feet bgs, with no visibility deeper than 92 feet bgs.
- The camera could not be delivered below 97 feet bgs.

#### WELL OBSTRUCTION PROBING

Pre-closure well probing indicated obstructions above the well screen in three wells: 25-West (65 feet bgs) and 50-West (64 feet bgs) and 50-North (70 feet bgs). Prior to well closures, obstruction probing was conducted in an attempt to clear the obstructions (to allow for grouting the screened intervals and perforating from as deep as possible). In each well, a 180 lb. steel hammer was delivered on wireline to the top of the obstruction. The hammer was then raised and allowed to free-fall onto the obstruction. In wells 25-West and 50-West, the obstructions were initially driven down to depths between 80 and 85 feet, however by the next day the obstructions were again encountered at the original depths (approximately 65 feet). In well 50-North, the obstruction was driven down to and stayed at 93 feet bgs.

It is likely that the obstructions are debris that entered the wellhead and/or sediment that entered failed portions of the casing.

#### SURFACE EQUIPMENT REMOVAL

Surface equipment associated with the wellfield was dismantled (by UCB) as construction debris, including: "Final Recharge Well" treatment vessel; aboveground piping; and the small concrete pad on which the treatment vessel was located. We understand that UCB will be disposing of those materials in the near future.

#### WELL CLOSURE PROCEDURES COMPLETED

### **Grouting Screened Intervals**

The initial step of the well closures was tremie-grouting the base of the wells, to seal off the screened interval (for those wells that tremie-pipe could be delivered to at least the top of the screen). Approximately 18 gallons of grout was emplaced in the 6-inch wells, and

approximately 80 gallons in the 12-inch wells. This corresponds to a grout interval of approximately 12 feet, which was designed to cover the screened intervals plus several feet. This grouting was conducted on January 31 and February 1, 2006. Screened interval grouting was not conducted in wells 25-West or 50-West because the tremie pipe could not be delivered to the screened interval due to obstructions.

Grout was mixed onsite to the specification in CCCHSD's "Annular Seal and Well Destruction Sealing Materials" guidance (94 lbs Portland cement to approximately 5 gallons of water). The original Technical Specifications proposed using potable water for the grout mix. The CCCHSD verbally approved, and we implemented, using water from the wells to mix the grout. This method was advantageous in that supplied water was not needed, and no wastewater management or disposal was needed.

The grouting was conducted by hand-lowering ¾-inch PVC non-screened pipe (10' long threaded sections) to the base of the well (or top of obstruction), and pumping the grout through the pipe as the tremie-pipe was removed from the well. After the grout had set, we measured the new depth of the well (top of the set grout) in each well. In all wells but one, the top of the grout was above the screened interval following the initial grouting phase. In "Final Recharge Well" the top of the grout was 2 feet below the top of the screened interval (likely due to grout entering the gravel pack around the screened interval).

#### Well Perforating

The original Technical Specifications proposed perforating accessible portions of the well casings (with a mills knife), per CCCHSD requirements. On February 3, 2006 the perforating equipment was setup at the first well (50-West). The perforating tool (which by necessity is only slightly narrower diameter than the inner diameter of the casing) would not pass below approximately 6 feet. This was attempted at two additional wells, with the same result. Visual observation of that portion of the well casings indicates that the well casings have corroded, likely due to rusting, allowing long-term entry of water and sediment. The result is that the integrity of the casing has been comprimised such that the casing diameter has been reduced by formation pressure, metal flaking, and/or built-up corrosion. The CCCHSD verbally approved not perforating the wells, and proceeding directly with tremie-grouting to surface.

### **Final Grouting**

Between February 3 and February 9, 2006 the remaining portions of all the wells were tremiegrouted to surface (per the methods discussed previously). Table 1 summarizes the volume of

grout delivered to each well. The emplaced grout volumes were in good agreement with the pregrouting calculated volumes, indicating that the casing interiors were fully grouted to either installed depth or to the depth where obstructions were encountered. Grout was brought to depths between ground surface and approximately 1 foot bgs.

## Well 100-S

This well was initially determined to have dirt and gravel inside the casing from the surface down to at least 2 feet bgs. In accordance with the Technical Specifications, on February 1, 2006 we drilled out the interior of the casing (with 4-inch diameter hollow-stem augers) to a depth of 6 feet. Upon retrieving the augers the upper 5 feet of the well casing was also pulled from the ground. The bottom of this casing was highly corroded. There was no evidence that the well was open beyond the 6' depth. The resultant borehole was grouted.

#### Wellhead Removals

We understand that UCB will in the near future be removing and disposing of the steel wellheads, to allow for mowing and possible site redevelopment. They have indicated that the wellheads will be cut off at a depth of approximately 0.5 to 1 foot bgs, and that the wellheads will be disposed as scrap metal. The CCCHSD verbally approved this method in lieu of the originally-proposed (in the Technical Specifications) internally cutting and removal of the upper 6 feet of the well casings.

#### <u>Piezometers</u>

In addition to the closure of the former deep research wells described above, UCB applied to have three shallow (depths of 16 feet) piezometers closed using the procedure augering and grouting. On February 9, 2006, the three piezometers were overdrilled with 8-inch-diameter hollow-stem augers to total well depth, and well construction materials (pre-packed PVC casings) were removed. The resultant boreholes were then tremie-grouted to surface. The drill cuttings and well construction waste were containerized in 4 labeled 55-gallon drums and transferred to the paved pad behind Building 102. The soil from those drums will be disposed of at a later date by UCB.

#### **SUMMARY**

On Behalf of UCB, SES oversaw the decommissioning of 25 wells and three piezometers that were permitted for closure through CCCHSD. This document provides the documentation of the well closures. We trust that this submittal meets your agency's needs. Please contact the undersigned at 510-644-3123 if you have any questions.

Sincerely,

Bruce M. Rucker, R.G., R.E.A.

Brune M. Ruly.

Principal Geologist

Richard S. Makdisi, R.G., R.E.A. Principal and Project Manager

**Attachments** 

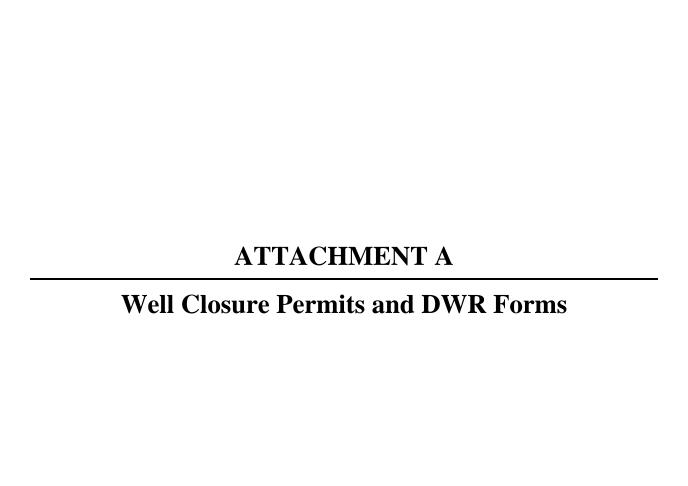
Attachment A: Well Closure Permit Documentation

cc: Mr. Karl Hans - University of California, Berkeley

Attachment B: Well Investigation and Closure Photodocumentation

#### **REFERENCES**

- California Department of Water Resources, 2005. Letter to UC Berkeley regarding review of SES' July 29, 2005 Technical Specifications for Well Destructions. September 29.
- Stellar Environmental Solutions, Inc., 2005a. Technical Specifications for Well Destructions, University of California Richmond Field Station, 1301 S. 46th Street, Richmond, California. July 29.
- Stellar Environmental Solutions, Inc., 2005b. Revised Specifications for Well Destructions, University of California Richmond Field Station, 1301 S. 46th Street, Richmond, California. December 8.



CONTRA COSTA

HEALTH SERV

INITIAL APPROVED \_\_\_ AHN: Bruce Rucker CONTRA COSTA

ENVIRONMENTAL HEALTH DIVISION CCEH 2120 DIAMOND BOULEVARD, SUITE 200

CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org

JAN 2 4 2006

REC'D

Original Raharge



WELL PERMIT APPLICATION

Type of Work:  New Well (69)  Repair (69)  Prezometer w/ casing (67)  Plezometer w/ casing (67)  Abandonment (68)  Plezometer w/ casing (65)  Agricultural  Proposed Use:  Domestic  Public / Small Water System  Agricultural	□ Industrial m □ Monitoring □ Other		Sewage Disposal (off-site):  Septic System  Sewer System				
(ATTACH PLOT PLAN - For instructions see "The Please Print Clearly. "Required Fields Must Be Completed."	ne Well Peri	nit Proces	s" handout)				
*Legal Owner's Name		<del> </del>					
University of Cultifornia- Derkeley		· ·					
"Owner Address 317 University Hall # 1150	· .						
*Cityl Statel Zip Bookdey CA 94730		untry O	wner Telephone 10   643 - 9574				
"Owner Billing Adoress (if different from above)	•						
Site Name (if different from owner address) Richmond Field Station	"Assessor's Parce		abdivision/Minor Subdivision #				
"Site Address (if different from owner address) 1301 S. 44 5E. Richmond CA	94894	La	ot/Percel # not applicable				
Contractor's Name WDC Explosion	*License#	) le "	ine Telephone 19† Gralvy Bc				
*Contractor's Mailing Address P.O. Box 141 Zamora CA 9569	8	15	ontact Person's Telephone 30 / しゅう・ふるネイ				
-Consultanumailing Address Steller Environmental Solvitions 2173 Sixth St #201 1	Scikely Ch		Consultant's Telephone 510 /644-31.23				
*Construction/Destruction Specifications							
Diameter of well casing 13 mth Casing Material 51 mt Gauge with well Annular seal depth (50 feel minimum) 10 nc  # of Soil Borings Borehole Diameter 12 - 10 th Boring Depth (b.g.s.*) 113 ft  Gravel/Sand packed							
Variance  Yes  No (Required for water well seals less than 50 feet b.g.s./monitoring well seals less than 10 feet b.g.s.)							
Performance Bond Requirement. (Contra Costa County Ordinance, Title 4 Health and Safety, Article 414-4.10; Section 414-4.1023 (a)) Prior to the issuance of a permit, the applicant shall post with the health officer a cash deposit or bond guaranteeing compliance with the terms of this chapter and the applicable permit, such bond to be in an amount deemed necessary by the health officer to remedy improper work but not in excess of five thousand dollars.							
I hereby certify that the above information and submitted plans are true and correct and that the proposed work will comply with all permit conditions and applicable laws and regulations. I agree to obtain all required inspections, maintain a copy of the approved permit and plans at the job site until final approval, and obtain written authorization prior to deviating from the approved permit or plans, or placing the well in service. The issuance of this permit by Contra Costa Environmental Health Division does not guarantee a satisfactory and an indefinite operation of any well system.							
Standature of Contractor (C-57 Licensce)	Date		064-1000				
FOR OFFICE USE (							
Facility ID#: 13059 PR#: P/E#: 43 1/3	Census Tract:	<del>38</del> 00.00	REHS: JH				
Amount Due: \$ 110 Amount Paid: \$ 3080 Receipt#	(R 188	Received By:	<u>e</u>				
Check #: 5135 / CASH / Credit Card: Q MC Q VISA Date Received:	1/24/200	Supervisor.	<u>88</u>				



PR Number:

25300

### CONTRA COSTA **ENVIRONMENTAL HEALTH DIVISION**

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



## **Well Permit** WP0005612

PE Number:

4368

		Received: 24 JAN (	4	Permit Number:	06M-1000
Permit App	proved/Issued		nvironmental Health Specia	list	Date Issued: 126 0
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indefinite operation	of any well.	Permit expires in 180	) calendar days	from date of appro	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it
1744		PROJECT	T SITE INF	ORMATION	\$ , l = 1
Sit	te Address:	1301 S 48TH ST, RICE	HMOND		
AP	PN:	560-060-008		Lot/Parcel #:	
Subdivision #: Minor Subdivision #:					#:
<u> </u>		DRILLER / C	ONSULTANT	INFORMATION	
Dri	iller:	WDC EXPLORATION		Contact Person:	
Ph	one #:	530-668-7540	FAX#:	530-662-1592	
Consultant: STELLAR ENVIRONMENTAL Phone #: 510-644-3123				Contact Person: FAX#:	BRUCE RUCKER 510-644-3859
Le	gal Owner Na	me: UNIVERSITY OF	CALIFORNIA: BI	ERKELEY	
Ow	- vner Address:	317 UNIVERSIT	Y HALL, #1150		
Cit	y/State/Zip:	BERKELEY, CA	94720		
Ph	one #:	510-643-9574		Alternate Phone #:	
prior to any drilling co- confirmation via teleph Well drillers must poss commencing with any Well Permit Condition 1. Proper annular se- of commencing dr 2. Monitoring well/so 3. Other:	enstruction or none or fax. ses a valid C- well constructions: eals and surfatilling. oil boring shall	destruction of a well.  57 license and must he destruction or replace construction feature be destroyed pursual	Volce mail me have on file a perfoairs.  res are to be instant to County regu	essages are not accommance bond of \$5 alled and required value alled and required value alled and required value alled and required value.	n a confirmed appointment time and date ceptable. The appointment desk sends ,000.00 with Contra Costa County before water analyses completed within 30 days is of completing monitoring activities.
Final Approval by:			Date		<del>-</del>



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



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The issuance of thi indefinite operation can be suspended in writing.	of any well.	. Permit exp	oires in 180 ca	lendar days f	rom date of appro	oval. Permits are r	a satisfactory and a con-transferable, an if reasons warrant
	<b>→</b> k <sub>11</sub>	P	ROJECT S	SITE INF	ORMATION		
S	ite Address:	1301 S 4	6 <sup>τΗ</sup> ST, RICHMO	OND			
A	PN:	560-060-	008		Lot/Parcel #:		
S	ubdivision#;				Minor Subdivision	#:	
1912	·	DRI	LLER / CO	NSULTANT	INFORMATION	J	
0	riller:	WDC EXPL	ORATION		Contact Person:		
Phone #; 530-668-7540				FAX#:	530-662-1592		
Consultant: STELLAR ENVIRONMENTAL				AL	Contact Person: BRUCE RUCKER		
p	Phone #: 510-644-3123				FAX#: 510-644-3859		
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L	egal Owner Na	ame: UNIV	VERSITY OF CA	ALIFORNIA: BE	RKELEY		
0	wner Address	s: <b>31</b> 7	UNIVERSITY H	ALL, #1150			
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P	hone #:	510-	643-9574		Alternate Phone #	:	
-	construction of otherne or fax. sees a valid C y well construtions: seals and surdilling. soil boring sha	or destruction 2-57 license action, destru- face constru- all be destro	n of a well. Vi and must have action or repain action features yed pursuant to	oice mall mes on file a perfo s. are to be insta county regul	ermance bond of \$3 alled and required ations within 30 da	cceptable. The appointment of the contract of	pointment desk sends a Costa County before apleted within 30 days anitoring activities.
3. Other:							<u> </u>
Final Approval by:							



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## **Well Permit**

## WP0005614

			WALOU	U30 14	•
	proved/issued b	eceived y: ontra Co ermit et more t	Environmental Harmonicolor (1) SOIL BORINGS  Dista County Environicolor (2) County Environicolor (3) County Environicolor (4) County Environicolor	MELE ABANDANMENT (1937)  nental Health Division of days from date of apple project, a time extension	loes not guarantee a satisfactory and an roval. Permits are non-transferable, and silon may be granted if reasons warrant it
	Site Address: APN: Subdivision #;	1301 5 560-0	5 46 <sup>TH</sup> ST, RICHMOND 30-008	Lot/Parcel #:	ion #:
	Driller: Phone #: Consultant: Phone #:	WDC E	XPLORATION 3-7540 AR ENVIRONMENTAL	Contact Person FAX#:  Contact Person FAX#:	n: 530-662-1592
	Legal Owner Mowner Address City/State/Zip	: <b>9</b> ;	UNIVERSITY OF CALL 317 UNIVERSITY HAL BERKELEY, CA 9472	L, #1150 ) Alternate Ph	one #:
prior to any drill confirmation via Well drillers mus commencing wit WELL PERMIT C 1. Proper and of commen	telephone or far st posses a valid th any well cons conditions; hular seals and s roing drilling.	c.  I C-57 litruction, surface	construction of eatures construction of features destruction or repairs construction features destroyed pursuant to	on file a performance bon are to be installed and re County regulations within	l obtain a confirmed appointment time and da not acceptable. The appointment desk sen d of \$5,000.00 with Contra Costa County befor quired water analyses completed within 30 da in 30 days of completing monitoring activities.
				Date:	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



	PR	Number:	25303	PE Number;	4368
	Dat	e Received:	24 JAN 06	Permit Number:	06M-1003 ,
Permit A	pproved/tssue	d by;	Jorchyn Ha	<u>lazi</u>	Date Issued: 1/2ie/0(-
	NEW WI	FI 1	Equiphomental Health	Specialis EEL:ABANDONMENT-(25×E)	REPAIR
			1) OOIL DOILE		KEFAIR
indefinite operation	n of any well.	Permit exp	ires in 180 calendar d	lays from date of appro	es not guarantee a satisfactory and an wal. Permits are non-transferable, and n may be granted if reasons warrant it
	10700-	P	ROJECT SITE	INFORMATION	
5	Site Address:		STH ST, RICHMOND		
	APN:	560-060-0	•	Lot/Parcel #:	
	Subdivision #:			Minor Subdivision	<b>#</b> :
<u> </u>		DRI	LLER / CONSULT	ANT INFORMATION	The state of the s
]	Oriller:	WDC EXPL	ORATION	Contact Person:	
ı	Phone #:	530-668-754	10	FAX#:	530-662-1592
(	Consultant:	STELLAR E	NVIRONMENTAL	Contact Person:	BRUCE RUCKER
F	Phone #:	510-644-312	23	FAX#:	510-644-3859
	P (Par Sylva	LE	GAL OWNER	INFORMATION	· 0//
!	.egal Owner Na	me: UNIV	ERSITY OF CALIFORN	IA: BERKELEY	
(	Owner Address	: 317	UNIVERSITY HALL, #11	50	
(	City/State/Zip:	BER	KELEY, CA 94720		•
	hone #:	510-	643-9574	Alternate Phone #:	
prior to any drilling confirmation via tele Well drillers must po commencing with ar WELL PERMIT CONDI.  Proper annular of commencing Monitoring well/ Other:	construction of phone or fax. In sees a valid Constructions: seals and surfaciliting. Soil boring sha	r destruction -57 license : ction, destru face constru	n of a well. Voice mand must have on file a ction or repairs.  ction features are to be red pursuant to County	il messages are not ac a performance bond of \$5 e installed and required of regulations within 30 day	n a confirmed appointment time and date ceptable. The appointment desk sends 1,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.
Final Approval by: _				Date:	11

FAX NO. :9256465888



## CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



WP0005616	W	/P	00	05	61	6
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	PR	Number:	25304		PE Number:	4368	
	Da	te Received	: 24 JAN 06	,	Permit Number:	06M-1004	4
Permit	Approved/Issue	ed by:	Josephin	_ Haba	: {	Date Issued:	26/010
				ental Health Specie			
	WEM #	ELL	() SOIL BORINGS	WELL	BANDONMENT (50'E)	REPAIR	] .
The issuance of	this permit by	Contra Co	sta County Envir	ronmental :	Health Division de	oc not guarantee	a satisfactory and an
Indefinite operati	on of any well.	, Permit ex	pires in 180 cale	ındar daysı	from date of appro	oval. Permits are	non-transferable, and
can be suspende	ed or revoked.	If more tir	ne is required fo	r the proje	ct, a time extensio	n may be granted	if reasons warrant it
in writing.							
<u></u>	·	P	ROJECT S	ITE INF	ORMATION	11	
	Site Address:	1301 S	I6TH ST, RICHMON	ID			
	APN:	560-060			Lot/Parcel #:		
	Subdivision #:					ı <b>#</b> :	
	<u></u>	<u> </u>			-		
		DR	ILLER / CONS	SULTANT	INFORMATION	i	
	Driller:	WDC EXP	ORATION		Contact Person:		
Phone #: 530-668-7540				FAX#:	530-662-1592		
Consultant: STELLAR ENVIRONMENTAL Contact Person: BRUCE RUCKER						1	
	Phone #: 510-644-3123				FAX#; 510-644-3859		
41-		74.0	· · · · · · · · · · · · · · · · · · ·		——————————————————————————————————————		
		L	EGAL OWN	ER INF	ORMATION		
	Legal Owner N	avne: UNI	VERSITY OF CALI	IFORNIA: BE	RKELEY		
	Owner Address	s: 317	UNIVERSITY HAL	.L, #1150	•		
	City/State/Zip:	BE	RKELEY, CA 94720	0			
	Phone #:	510	-643-9574		Alternate Phone #:	:	
Contact the Contra prior to any drilling confirmation via tei	g construction o	Environme r destructio	ntal Health Division of a well. Voice	on appointm ce mail me	ent desk and obtai	n a confirmed appo ceptable. The ap	pointment time and date
Well drillers must p	osses a valid C			n file a perfe	rmance bond of \$5	,000.00 with Contr	a Costa County before
commencing with a		ction, destr	uction or repairs.				
WELL PERMIT CONI  1. Proper annula		face constr	uction features ar	e to he inst	alled and required :	water analyses con	npleted within 30 days
of commencing	g drilling.	DO DOTTO	ocacii icacai co ca	O (O DC III)	anca ana required	water analyses con	ilpieted within 50 days
2. Monitoring well	ll/soil boring sha	all be destro	yed pursuant to C	County regul	ations within 30 day	ys of completing ma	onitoring activities.
3. Other:							
,							
Final Approval by:		•••	10.	_ Date:			



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



## **Well Permit**

## WP0005618

	PR	R Number: 25306	PE Number:	4368			
	Dar	te Received:, 24 JAN 06	Permit Number:	06M-1006			
Permit	Approved/Issue	ed by: Jeelyn i	tabal	Date Issued: \ トレ の6			
			nantal Hasith Specialist				
	NEW W	VELL () SOIL BORINGS	WELL ABANDONNERT INEW	REPAIR			
The issuance of	this permit by	Contra Costa County Envi	ironmental Health Division de	es not guarantee a satisfactory and an			
Indefinite operat	ion of any well.	l. Permit expires in 180 cale	endar days from date of appro	oval. Permits are non-transferable, and on may be granted if reasons warrant it			
		PROJECT S	ITE INFORMATION	· · · · · · · · · · · · · · · · · · ·			
	Site Address:	1301 S 46 <sup>7H</sup> ST, RICHMOI	ND				
	APN:	560-060-008	Lot/Parcel #:				
	Subdivision #:		Minor Subdivision	# <b>:</b>			
	-	DRILLER / CON	SULTANT INFORMATION	V			
	Orliler:	WDC EXPLORATION	Contact Person:				
	Phone #:	530-668-7540	FAX#:	530-662-1592			
	Consultant: STELLAR ENVIRONMENTAL Contact Person: BRUCE RUCKER						
Phone #: 510-644-3123 FAX#: 510-644-3859							
	·	LEGAL OW	NER INFORMATION				
	Legal Owner N	ame: UNIVERSITY OF CAL	IFORNIA: BERKELEY				
	Owner Address	s: 317 UNIVERSITY HA	LL, #1150				
	City/State/Zip:	BERKELEY, CA 9472	20				
	Phone #:	510-643-9574	Alternate Phone #	:			
prior to any drilling confirmation via te Well drillers must commencing with WELL PERMIT CON 1. Proper annula of commencing we Monitoring we	g construction of fax. posses a valid Cany well construintions; ar seals and suring drilling.	or destruction of a well. <b>You</b> C-57 license and must have oution, destruction or repairs.  rface construction features a	Ice mail messages are not account file a performance bond of \$5 are to be installed and required	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ys of completing monitoring activities.			
Final Approval by:			Date:				



## **CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION**

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



			W	P000561	9		
	PR	Number:	25307		PE Number:	4368	
	Dar	te Received	: 24 JAN 06	,	Permit Number:	06M-1007 ,	
Perm	rit Approved/issue	:d by:	Joean -	Halozali ntsi Health Specia	100g	_ Date Issued: 1/24   O le	
	NEW W	/ELL	() SOIL BORINGS		BANDONMENT (NEW	SOLE REPAIR	
		l.	Al'n	E 6500-0000 54-5-		145_191700_516[	
indefinite opera	ation of any well.	. Permit ex	cpires in 180 cale	ndar days	from date of appro	pes not guarantee a satisfactory and ar oval. Permits are non-transferable, and on may be granted if reasons warrant i	
		F	ROJECT SI	TE INF	ORMATION	**************************************	
	Site Address:	1301 S	46TH ST, RICHMON	D			
	APN:	560-060	0-008		Lot/Parcel #:		
	Subdivision #:					ı #:	
	1 PAGE	Dr	RILLER / CONS	ULTANT	INFORMATION	Y	
	Driller:	WDC EXF	PLORATION		Contact Person:		
	Phone #:	530-668-7	540		FAX#:	530-662-1592	
	Consultant:	STELLAR	ENVIRONMENTAL		Contact Person: BRUCE RUCKER		
	Phone #:	510-644-3	123		FAX#:	510-644-3859	
		L	EGAL OWN	ER INF	ORMATION	THE PERSON NAMED OF THE PE	
	Legal Owner N	ame: UN	IVERSITY OF CALI	FORNIA: BI	RKELEY		
	Owner Address	s: 31	7 UNIVERSITY HAL	L, #1150			
	City/State/Zip:	BE	RKELEY, CA 94720	)			
	Phone #:	51	0-643-9574		Alternate Phone #	:	
prior to any drilliconfirmation via Well drillers must commencing wit WELL PERMIT CO 1. Proper annu- of commence 2. Monitoring via	ing construction of telephone or fax. It posses a valid of any well constructions:  Juliar seals and sure ing drilling.  Vell/soil boring shads	or destructi C-57 licens uction, dest rface const all be destr	on of a well. Volon of a well. Volon of a well. Volon or repairs. Truction features and royed pursuant to Comment to Comment of the comment o	ce mail me n file a perf e to be inst County regu	ssages are not accommance bond of \$1 alled and required lations within 30 da	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days by sof completing monitoring activities.	
Final Approval by	y:				:		

FAX NO. :925 6465168

Jan. 30 2006 09:55AM P2

FROM :CC ENVIRON HLTH

FAX NO. :9256465888

Jan. 25 2006 12:22PM P2

WILLIAM B. WALKER, M.D. HEALTH SERVICES DIRECTOR KENNETH C. STUAKI, MSEH.REHS ENVIRONMENTAL HEALTH DIRECTOR



CCEH

CONTRA COSTA ENVIRONMENTAL HEALTH

CONTRA COSTAJAN 2 6 200 fiz120 Diamond Blvd., Suite 200 Concord, California HEALTH SERVICES REC'D

Ph (925) 646-5225 Fax (925) 646-5168 www.cocoeh.org

## REQUEST FOR VARIANCE

Please print or type	ASSESSOR'S PARCEL NUMBER					
Form must be filled out completely	560060008					
SITE LOCATION	<del></del>					
University of Colimbinia - Beskeley - Richmond Field	DEALINH 12012 AP & KANAVOM CV					
Stellar Environ montal Solutions, Inc.	50-644-303					
MAILING ADDRESS						
3148 Sixty St. #301	DAYTIME PHONE					
University of Calibrain- Besteley	S10 - 643-9574					
University of Calibrain Besteley						
317 University Hall # 1150 Berkeley CA 947	790					
VARIANCE REQUEST						
Close a well by graving, with no perso	scaling, Growt will be delived (with a hose)					
from well bottom upward. (Well 10	on sout)					
LAND MELL DESIGNA OPPRATOR ( AG CAL TO	00-Eqst).					
REASON FOR REQUEST						
prochad electrical line precludes maxima	up with a devict which is four red					
Overhad electrical line precludes massing up with a derrick, which is required						
Mac pertocating.						
SUPPORTING DOCUMENTATION (Attach additions	al shout if nanograms)					
	d America decessary					
Figure sharing well 100- East.						
check ofor \$158 (variance fee)						
CHOICE VOI DO [ TOTALLE TEXT	AND THE PROPERTY OF THE PROPER					
	\					
Submitted by: Bive Ricker Buse m Ruly (A	R.6. + 68 Pate: 1/25/06					
Spomitted by: Divise 14042 Comment 1444 Cr	7. K.W Ditte: 1/93/00					
DO NOT WRITE BELOW THE	S LINE FOR OFFICE USE ONLY					
Reviewed by: became Habal	Date: 01/30/04					
Registered Environmental Health Specia	due to safety bazard from .					
Recommendations: Opprove Janance	are to safely warra from					
electrical line.						
	The state of the s					
APPROVED	Date: //30/00					
DENIED By: Supervising Envir	onmental Realth Specialist					
	goncy Modical Survices • Contra Costa Enviropemental Health • Contra Costa Health Plan •					

Pr 25346 In 52211 \$158 (K# 5136 XP8

\* Contra Costa Hazardovs Materials Programs - Costa Mental Heesin - Contra Costa Public Health - Contra Costa Regionnal Merical Center - Contra Costa Health Centers -



Final Approval by: \_\_\_\_\_

## **CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION**

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



## **Well Permit**

### WIDOODSE17

			•	
	PR Nu	amber: 25305	PE Number:	4368
	Date I	Received: 24 JAN 06	Permit Number:	06M-1005
Pern	nit Approved/issued i	by: beelyn Halos	<u> </u>	Date Issued: 13006
	Carrie Spira	L () SOIL BORINGS WEE	I MARANDONNENT (180-E)	REPAIR
	NEW WEL	L () SOIL BURINGS		
ndofinite oner	ation of any well. P	ermit expires in 180 calendar da	avs from date of appro	es not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
· · · · · · · · · · · · · · · · · · ·		PROJECT SITE	NFORMATION	
	Site Address:	1301 S 46TH ST, RICHMOND		
	APN:	560-060-008	ot/Parcel #:	
	Subdivision #:		Minor Subdivision	n#:
		DRILLER / CONSULTA	NT INFORMATION	N
	Driller:	WDC EXPLORATION	Contact Person:	
		530-668-7540	FAX#:	530-662-1592
		STELLAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-3123	FAX#:	510- <del>644-</del> 38 <del>59</del>
<del></del>	-	LEGAL OWNER	NFORMATION	
	Legal Owner Nat	me: UNIVERSITY OF CALIFORNI	A: BERKELEY	
	Owner Address:	317 UNIVERSITY HALL, #115	50	
	City/State/Zip:	BERKELEY, CA 94720		
	Phone #:	510-643-9574	Alternate Phone #	#: 
prior to any dri confirmation via Well drillers ma commencing w Well PERMIT	illing construction or a telephone or fax. ust posses a valid C- rith any well construc Congruens:	destruction of a well. Voice ma 57 license and must have on file a ction, destruction or repairs. ace construction features are to b	if messages are not a performance bond of \$	ain a confirmed appointment time and date acceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



		WI	P000 <b>562</b> 0		
	PR Numbe	er: 25308	PE Number:	4368	
	Date Rece	ived: , 24 JAN 06	Permit Num	ber: 06M-1008	1 1
Permit Approve	ed/Issued by; _	breign F	aloat	Date Issued:	1/26/06
<u> </u>	NEW WELL	() SOIL BORINGS	ral Hasim Specialist WED ABONDONMEN	ir Amala Denau	<del></del> -1
<u> </u>	METF PIELL	() soil BONINGS		T (40-N) REPAI	<u> </u>
Indefinite operation of a	ny well. Permi	it expires in 180 cale:	ndar days from date of	approval. Permits a	tee a satisfactory and an are non-transferable, and nted if reasons warrant it
		PROJECT SI	TE ÎNFORMATI	O N	
Site Ad	idress: 130	1 S 46TH ST, RICHMONI	0		
APN:	560	-060-008	Lot/Parcel #	<u>:</u>	
Subdiv	ision#;		Minor Subdi	vision#:	
		DRILLER / CONS	ULTANT INFORMA	TION	Ti Oda Vi
Drifter.	WDC	EXPLORATION	Contact Pers	son:	
Phone	#: 530-6	68-7540	FAX#:	530-662-1592	
Consul	tant: STEL	LAR ENVIRONMENTAL	Contact Pers	son: BRUCE RUCE	KER
Phone	#: 510-6	44-3123	FAX#:	510-644-3859	ı
		LEGAL OWN	ER INFORMATI		THE WAS A
Legal C	)wner Name:	UNIVERSITY OF CALIF	FORNIA: BERKELEY		
Owner	Address:	317 UNIVERSITY HALI			
City/St;	ate/Zîp:	BERKELEY, CA 94720	· 		
Phone	#:	510-643-9574	Alternate Ph	one #:	
prior to any drilling construction from the telephone Well drillers must posses a commencing with any well WELL PERMIT CONDITIONS:  1. Proper annular seals of commencing drilling 2. Monitoring well/soil bo 3. Other:	uction or destriction or fax. a valid C-57 lice construction, cand surface continuities or fail to destruct the continuities of the continuities o	ruction of a well. Voice ense and must have or destruction or repairs. construction features are estroyed pursuant to C	te mail messages are in file a performance bond to be installed and required to be installed to be	not acceptable. The d of \$5,000.00 with Co uired water analyses 30 days of completing	
Final Approval by:			Date:		



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## **Well Permit**

### WP0005621

	PR	Number:	25309	-	PE Number:	4368
	Dat	e Received:	24 JAN 06		Permit Number:	06M-1009
Perm	it Approved/lasue	d by:	becinn	Habal		_ Date Issued: 1/つん/ひひ
	y <del></del> -			nental Haalth Specia		
	NEW W		() SOIL BORINGS	WEEG	ABANDOUMENT (25	NE REPAIR
Indefinite opera	rtion of any well.	Permit exp	pires in 180 cale	endar days :	from date of appre	oes not guarantee a satisfactory and oval. Permits are non-transferable, a on may be granted if reasons warran
		P	ROJECT S	ITE INF	ORMATION	**.
	Site Address:	1301 S 4	8™ ST, RICHMOI	ND		
	APN:	560-060-	008		Lot/Parcel #:	
	Subdivision #:				Minor Subdivision	)#:
		DRI	LLER / CON	SULTANT	INFORMATION	1
	Driller:	WDC EXPL	ORATION		Contact Person:	
	Phone #:	530-668-75	40	FAX#:		530-662-1592 BRUCE RUCKER
	Consultant;	STELLAR	LAR ENVIRONMENTAL		Contact Person:	
	Phone #:	<b>510-644-</b> 31	23		FAX#:	510-644-3859
		<u>L</u> i	EGAL OW	NER INF	ORMATION	N. Sa 1 Am.
	Legal Owner No	me: UNI	VERSITY OF CAL	JFORNIA: BE	RKELEY	
	Owner Address	: 317	UNIVERSITY HA	LL, #1150		
	City/State/Zip:	BER	KELEY, CA 9472	20		
	Phone #:	510-	643-9574		Alternate Phone #	:
prior to any drilliconfirmation via the Well drillers must commencing with Well Permit Co.  Proper annuof commencial Monitoring with the Well Permit Co.  Monitoring with the Well Permit Co.	ng construction of elephone or fax. sposses a valid Control on any well constructions: lar seals and surfing drifling.	r destruction  -57 license ction, destruction  ace construction	n of a well. Vol and must have o action or repairs. action features a yed pursuant to	ice mail me on file a perfo are to be inst County regul	ssages are not ac ormance bond of \$5 alled and required ations within 30 da	in a confirmed appointment time and dacceptable. The appointment desk sens, 000,00 with Contra Costa County before water analyses completed within 30 days of completing monitoring activities.
o. Ouict,					* * · · · · · · · · · · · · · · · · · ·	
Final Approval by	·			Date:		

Final Approval by; \_\_\_



## CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



## **Well Permit**

			WP0	005622	
	PF	Number:	25310	PE Number:	4368
	Da	ite Receiv	ed: ¿24 JAN 06	Permit Number:	06M-1010
Perr	nit Approved/issu	ed by:	Secure Ho	i Cozt	Date Issued: 1/26/06
	NEW V	VELL	() SOIL BORINGS	WELL SBANDONNENT (502)	REPAIR
indefinite oper	ation of any well	l. Permit	expires in 180 calenda	r days from date of appro	es not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
		<del></del> -, <del></del>	PROJECT SITE	E INFORMATION	
	Site Address:	1301	S 46TH ST, RICHMOND		
	APN:	560-0	60-008	Lot/Parcel #:	
	Subdivision #	:		Minor Subdivision	#:
		5	RILLER / CONSU	LTANT INFORMATION	
	Driller:	WDC E	(PLORATION	Contact Person:	
	Phone #:	530-668	-7540	FAX#:	530-662-1592
	Consultant:	STELLA	R ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644	<b>-312</b> 3	FAX#:	510-644-3859
			LEGAL OWNER	RINFORMATION	
	Legal Owner	lame: (	INIVERSITY OF CALIFO	RNIA: BERKELEY	
	Owner Address	ss: 3	317 UNIVERSITY HALL, 4	¥1150	
	City/State/Zip:	: [	BERKELEY, CA 94720		
	Phone #:	,	510-643-9574	Alternate Phone #	:
prior to any dri confirmation vis Well drillers mu commencing wi WELL PERMIT C 1. Proper any of commen 2. Monitoring	ntra Costa County ling construction telephone or fax. st posses a valid th any well constr ONDITIONS: tular seals and su cing drilling. well/soil boring st	y Environi or destrui C-57 licer uction, de inface con	mental Health Division a ction of a well. Voice ase and must have on fi struction or repairs. struction features are to stroyed pursuant to Cou	appointment desk and obtainmail messages are not act and act are not act and act are performance bond of \$500 to be installed and required	in a confirmed appointment time and data cceptable. The appointment desk send 5,000.00 with Contra Costa County before water analyses completed within 30 day ays of completing monitoring activities.

Date: \_



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



		WP006	05623	
	PR Number	25311	PE Number.	4368 <u>.</u>
	Date Receiv	red:   24 JAN 06	, Permit Number:	06M-1011
Permit Approv	ed/Issued by:	Joseph Hal	oat(	_ Date Issued:
	NEW WELL	() SOIL BORINGS	in Specialist WELL ABANDONMENT (18-Y	REPAIR
		() COIL DOXING		SEE SECTION
indefinite operation of a	ny well. Permit	expires in 180 calendar	days from date of appro	es not guarantee a satisfactory and an aval. Permits are non-transferable, and on may be granted if reasons warrant it
		PROJECT SITE	INFORMATION	
Site A	ddress: 1301	S 46TH ST, RICHMOND		
APN:	560-	060-008	Lot/Parcel #:	
Subdiv	/ision#:		Minor Subdivision	#:
W 1.	······ <u> </u>	RILLER / CONSULT	ANT INFORMATION	
Driller	WDC E	XPLORATION	Contact Person:	
Phone	#; 530-669	3-7540	FAX#:	530-662-1592
Consu	Itant: STELL	AR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phone	#: 510-64	L-312 <b>3</b>	FAX#:	510-644-3859
		LEGAL OWNER	INFORMATION	- C V X - C V
Lega <b>i</b> (	Owner Name:	UNIVERSITY OF CALIFORN	IIA: BERKELEY	
_		317 UNIVERSITY HALL, #11	150	
City/St	ate/Zip;	BERKELEY, CA 94720		
Phone	#:	510-643-9574	Alternate Phone #:	:
prior to any drilling construction via telephone Well drillers must posses commencing with any wel Well Permit Condmons 1. Proper annular seals of commencing drillin 2. Monitoring well/soil be 3. Other:	ruction or destruction or fax. a valid C-57 lice. I construction, de. and surface cong. g. oring shall be de	ction of a well. Volce manuscript of a well. Volce manuscript on file settruction or repairs.  Instruction features are to be stroyed pursuant to County	ail messages are not ac a performance bond of \$5 be installed and required v y regulations within 30 day	n a confirmed appointment time and date ceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ys of completing monitoring activities.
Final Approval by:			Date:	



Final Approval by:

## CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



			WP	0005624	
	Pi	R Number:	25312	PE Number:	4369
	Da	ate Receive	d: 24 JAN 06	, Permit Number:	06M-1012
Pern	nit Approved/Issu	ed by: <u> </u>	Marian Ha	LISCE   BI Health Spacingst	Date Issued:\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
	NEWY	NELL	() SOIL BORINGS	WE LABANDONMENT (25	REPAIR
Indefinite oper	ation of any wel	l. Permit e	xpires in 180 calen	dar days from date of appr	oes not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant if
	· · · · · · · · · · · · · · · · · · ·		PROJECT SI	TE INFORMATION	
	Site Address:	1301 8	S 46TH ST, RICHMOND		
	APN:	560-06	60-008	Lot/Parcel #:	
	Subdivision #	:		Minor Subdivision	n #:
		D	RILLER / CONSI	ULTANT INFORMATIO	N
	Driller:	WDC EX	PLORATION	Contact Person:	
	Phone #:	530-668-	7540	FAX#:	530-662-1592
	Consultant:	STELLA	R ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-	3123	FAX#:	510-644-3859
		1	LEGAL OWNE	R INFORMATION	
	Legal Owner N		NIVERSITY OF CALIF		
	Owner Addres	•	17 UNIVERSITY HALL	, #1150	
	City/State/Zlp:		ERKELEY, CA 94720		
	Phone #:		10-643-9574	Alternate Phone #	<b>*</b> :
prior to any drill confirmation via Well drillers mus commencing wit WELL PERMIT Co 1. Proper annu of commend 2. Monitoring of	ing construction telephone or fax. It posses a valid the any well constructions: ular seals and such deli/soil boring shapping sh	or destruction. C-57 licens uction, des urface cons nall be dest	tion of a well. Voice se and must have on struction or repairs. struction features are troyed pursuant to Co	e mail messages are not a file a performance bond of \$ to be installed and required bunty regulations within 30 days	ain a confirmed appointment time and date acceptable. The appointment desk sends is 5,000.00 with Contra Costa County before water analyses completed within 30 days ays of completing monitoring activities.



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



		V	VP000562	5	•	
	PR Number:	25313		PE Number:	4368	
	Date Received	: 24 JAN 06	2	Parmit Number:	06M-1013	
Permit Approved/ls	sued by:	Jocatua.	Habal		_ Date issued: 1	1260106
			nental Health Specie			
NE NE	W WELL	() SOIL BORINGS	WE IL	ABANDONMENT (50)	W) REPAIR	
The Issuance of this permit indefinite operation of any vacan be suspended or revok in writing.	vell. Permit ex	pires in 180 cal	endar days <sup>.</sup>	from date of appro	oval. Permits are	non-transferable, and
, w	·	ROJECT \$	ITE INF	ORMATION	· · · · · · · · · · · · · · · · · · ·	
Site Addre	ss: 1301 S	46 <sup>TH</sup> ST, RICHMO	ND			
APN:	560-060	·-		Lot/Parcel #:		
Subdivisio	n #:			Minor Subdivision	n#:	,
	Dr	ULLER / CON	SULTANT	INFORMATION	N.	
Driller:	WDC EXP	LORATION		Contact Person:		
Phone #:	530-668-7	540		FAX#:	530-662-1592	
Consultant	: STELLAR	ENVIRONMENTA	<b>L</b>	Contact Person:	BRUCE RUCKE	R
Phone #:	510-644-3	123		FAX#:	510-644-3859	
		EGAL OWI	NER INF	ORMATION	N. L	
Legal Own	er Name: UN	IVERSITY OF CAL	LIFORNIA: BI	RKELEY		
Owner Add	iress: 31)	UNIVERSITY HA	LL, #1150			
City/State/2	Zip: BE	RKELEY, CA 947	20			
Phone #:	510	)-643-9574		Alternate Phone #	:	
Contact the Contra Costa Control to any drilling construction confirmation via telephone or Well drillers must posses a vacommencing with any well conwell. PERMIT CONDITIONS:  1. Proper annular seals and of commencing drilling.  2. Monitoring well/soil boring.  3. Other:	on or destruction  fax.  lid C-57 license  struction, destruction  surface construction  shall be destruction	on of a well. Vo e and must have ruction or repairs ruction features a oyed pursuant to	on file a performant of the confile a performant of the confile of	ssages are not accommance bond of \$5 alled and required lations within 30 da	cceptable. The a 5,000.00 with Cont water analyses co nys of completing n	ppointment desk sends tra Costa County before impleted within 30 days nonitoring activities.
·						
Final Approval by:						



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



	PR	Number:	25314		PE Number:	4368	
	Dat	te Received:	24 JAN 06 ,		Permit Number:	06M-1014	
Permit	Approved/Issue	d by:	colun Ha	usael .		Date Issued: 126	106
				i Haaith Special			
	NEW W	ELL	) SOIL BORINGS		ANDONMENT (NEW)	REPAIR	
Indefinite operat	ion of any well.	Permit exp	ires in 180 calend	iar days i	rom date of appro	es not guarantee a sa val. Permits are non n may be granted if a	-transferable, and
	Fix	P	ROJECT SIT	E INF	ORMATION		•
	Site Address:		STH ST, RICHMOND			,	•
	APN:	560-060-0	-		Lot/Parcel #:		
	Subdivision #:				Minor Subdivision	#:	
		Dei	LLED / CONSI	II TANT	INFORMATION		
		DRI	LLLIK, GOILGO	,	IN OKIDATION	•	
	Driller:	WDC EXPL	ORATION		Contact Person:		
	Phone #:	530-668-75	10		FAX#:	530-662-1592	
	Consultant:	STELLAR E	NVIRONMENTAL		Contact Person:	BRUCE RUCKER	
	Phone #:	510-644-31	?3		FAX#:		
		L	GAL OWNE	R INF	ORMATION		·
	Legal Owner N	ame: UNI\	ERSITY OF CALIF	ORNIA: BE	RKELEY		
	Owner Address	s: 317	UNIVERSITY HALL,	#1150			
	City/State/Zip:	BER	KELEY, CA 94720				
	Phone #:	510-	643-9574		Alternate Phone #:		
prior to any drilling confirmation via te Well drillers must commencing with Well Permit Con 1. Proper annula of commencing well Monitoring we	g construction of the cons	or destruction C-57 license action, destru face constru all be destroy	n of a well. Voice and must have on ction or repairs. ction features are yed pursuant to Co	mail me file a perfe to be inst	ssages are not ac ermance bond of \$5 alled and required valiens within 30 day	n a confirmed appointr ceptable. The appoint ,000.00 with Contra Con water analyses completing monite	ntment desk sends osta County before sted within 30 days oring activities.
Final Approval by:							



Final Approval by:

## CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoefi.org



## **Well Permit**

		WP000	05627	
	PR Nur	mber: 25315	PE Number:	4368
Pern	Date R alt Approved/Issued by	eceived: 24 JAN 06 y: 100 - 120	Permit Number:	06M-1015 Date Issued: \(\frac{12\color{5\cuteched}{2\cuteched}}{\frac{1}{2\cuteched}{2\cuteched}}\)
	NEW WELL	. () SOIL BORINGS	ELL ABANDONMENT (NEW 5	(A) REPAIR
indefinite opera	ation of any well. Pe	ermit expires in 180 calendar	days from date of appro	es not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
<u> </u>	P T M TV	PROJECT SITE	INFORMATION	
	Site Address:	1301 S 46TH ST, RICHMOND		
	APN:	560-060-008	Lot/Parcel #:	
	Subdivision #:		Minor Subdivision	#:
- т н		DRILLER / CONSULT	ANT INFORMATION	
	Driller: W	DC EXPLORATION	Contact Person:	
	Phone #: 53	80-668-7540	FAX#:	530-662-1592
	Consultant: S	TELLAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #: 51	10-644-3123	FAX#:	510-644-3859
M-12		LEGAL OWNER	INFORMATION	P/_ L L
	Legal Owner Name	e: UNIVERSITY OF CALIFORN	VIA: BERKELEY	
	Owner Address:	317 UNIVERSITY HALL, #1	150	
	City/State/Zip: Phone #:	BERKELEY, CA 94720 510-643-9574	Alternate Phone #:	
	- 17/A			7 MIT MILE 1 MIT MILE 1 MIT MILE 1 MIT MILE 1 MILE
prior to any drill confirmation via Well drillers mus commencing wit WELL PERMIT Co 1. Proper ann of commen 2. Monitoring	ling construction or datelephone or fax. st posses a valid C-5. th any well construction on pittions: ular seals and surfacting drilling.	restruction of a well. Voice many ficense and must have on file on, destruction or repairs. The construction features are to be	ail messages are not ac a performance bond of \$5 be installed and required y regulations within 30 da	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days by sof completing monitoring activities.

Date:



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



## **Well Permit**

W	POO	105	628
	ı vı		uzu

	ÞR	Number:	25316		PE Number:	4368
	Dat	e Received	I: i 24 JAN 06 ,		Permit Number:	06M-1016 , ,
Permit	Approved/Issue	d by:	Jocelan He	toat		Date Issued: 1/24/04
	`		Environmental		· · · · · · · · · · · · · · · · · · ·	The state of the s
	NEW W	ELL	() SOIL BORINGS	WELL	ABANDONNENT (284S	REPAIR
indefinite operati	on of any well.	Permit e:	cpires in 180 calend	lar days	from date of appro	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it
		ř	PROJECT SIT	EINF	ORMATION	
•	Site Address:	1301 S	46TR ST, RICHMOND			
	APN:	560-06	ř		Lot/Parcel #:	
	Subdivision #:				Minor Subdivision	<b>#</b> .
		Di	RILLER / CONSU	JLTANT	INFORMATION	
	B. 410	hima Phi	u Abarian		Control Domesia	
	Driller:		PLORATION		Contact Person:	530-662-1592
	Phone #:	530-668-7			FAX#:	BRUCE RUCKER
	Consultant: Phone #:	510-644-3	LAR ENVIRONMENTAL		Contact Person: FAX#:	510-644-3859
	· · · · · · · · · · · · · · · · · · ·					
		ı	LEGAL OWNE	RINF	ORMATION	
	Legal Owner N	lame: Ul	NIVERSITY OF CALIF	ORNIA: B	ERKELEY	
	Owner Address		7 UNIVERSITY HALL,	, #1150		
	City/State/Zlp:		ERKELEY, CA 94720			
	Phone #;	51	0-643-9574		Alternate Phone #:	
prior to any drillin confirmation via te Well drillers must commencing with WELL PERMIT CON 1. Proper annula of commencing 2. Monitoring we	g construction of the phone or fax. posses a valid (any well constructions: ar seals and suring drilling.	or destruction destruction, destruction, destruction d	tion of a well. Volce se and must have on truction or repairs. truction features are truyed pursuant to Co	e mail me file a per to be ins	ormance bond of \$5 talled and required stations within 30 da	n a confirmed appointment time and date ceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ys of completing monitoring activities.
Final Approval by:				Date	e:	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

	PR Numb	er: 25317	PE Number:	4368
	Date Rece	eived: 24 JAN 06	Permit Number:	06M-1017 , ,
Permit Appro	oved/Issued by: _	Jacolyn	Habail	Date Issued: 1/24 Ot
Г	NEW WELL	() SOIL BORINGS	al Health Specialist	REPAIR
	NEW METE	() SOIL BORNINGS		REGISTER REPAIR
indefinite operation of	any well. Perm	it expires in 180 calen	dar days from date of appro	es not guarantee a satisfactory and a oval. Permits are non-transferable, ar on may be granted if reasons warrant
VIV.		PROJECT SI	TE INFORMATION	
Site.	Address: 13	01 S 48TH ST, RICHMONE		
APN		0-060-008	Lot/Parcel #:	
•	division #:		Minor Subdivision	<b>#:</b> ,
		DRILLER / CONS	ULTANT INFORMATION	· ·
Drijle	er WDÓ	EXPLORATION	Contact Person:	
		B68-7540	FAX#:	530-662-1592
		LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Pho		544-3123	FAX#:	510-644-3859
PAX	···· · · · · · · · · · · · · · · · · ·	LEGAL OWN	ER INFORMATION	A
Lega	al Owner Name:	UNIVERSITY OF CALIF	FORNIA: BERKELEY	
Own	er Address:	317 UNIVERSITY HALI	L, #1150	
City	/State/Zip:	BERKELEY, CA 94720	l .	
Phot	ne #:	510-643-9574	Alternate Phone #	<u> </u>
prior to any drilling conconfirmation via telephote Well drillers must posse commencing with any w WELL PERMIT CONDITION  1. Proper annular sea of commencing dril  2. Monitoring well/soil  3. Other:	estruction or desone or fax. es a valid C-57 livell construction, NS: els and surface of ling. I boring shalf be	truction of a well. Voto cense and must have or destruction or repairs. construction features are destroyed pursuant to C	e mall messages are not ac n file a performance bond of \$3 e to be installed and required county regulations within 30 da	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

	PR	Number:	25318	PE Number:	4368
	Dat	te Received:	, 24 JAN 08	Permit Number;	06M-1018 j
Permi	Approved/Issue	d by:`	Jocenna I	Foliael	_ Date Issued: \\Z6\D6
	,	<u>-</u>	Egy/ronmentat )	· · · · · · · · · · · · · · · · · · ·	
	NEW W	ELL	() SOIL BORINGS	MELLABANDONMENT (THE	REPAIR
Indefinite operat	ion of any well.	Permit ex	pires in 180 calenda	ar days from date of appr	oes not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
		P	ROJECT SIT	E INFORMATION	
	Site Address:	1301 8 4	6TH ST, RICHMOND		
	APN:	560-060	-	Lot/Parcel #:	
	Subdivision #:			Minor Subdivisio	n#:
<del></del>	- 18	ÐR	ILLER / CONSU	LTANT INFORMATIO	N ·
	Driller:	WDC EXP	ORATION	Contact Person:	
	Phone #:	530-868-75		FAX#:	530-662-1592
	Consultant:		ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-31	23	FAX#:	510-644-3859
		L	EGAL OWNE	R INFORMATION	Probability Notes (Pr. 19
	Legal Owner N	ame: UNI	VERSITY OF CALIFO	RNIA: BERKELEY	
	Owner Address	s: 317	UNIVERSITY HALL,	#1150	
	City/State/Zip:	BEI	RKELEY, ÇA 94720		
	Phone #:	510	-643-9574	Alternate Phone #	<b>)</b> :
prior to any drillin confirmation via to Well drillers must commencing with WELL PERMIT CON 1. Proper annut of commencia 2. Monitoring we	g construction of elephone or fax. posses a valid C any well constru IDITIONS: ar seals and sur ng drilling. ell/soil boring sha	or destruction  5-57 license  action, destr  face constr  all be destro	on of a well. Voice and must have on fi uction or repairs. uction features are to eyed pursuant to Cou	mail messages are not a ile a performance bond of \$ o be installed and required inty regulations within 30 da	ain a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ays of completing monitoring activities.
3. Other:	***		<del></del>		
Final Approval by:				Date:	· Estratus a.

FAX NO. :9256465888



# CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



#### **Well Permit**

	PR	Number:	25319	PE Number:	4368
	Date	Received:	24 JAN 06	Permit Number:	06M-1019 , ,
Permit Ap	oproved/Issue	d by:	lexitan 1	that	Date Issued: 126004
	NEW WE		Environmental Hea		Achiel PEDAD
	MEAR ARE	(	) SOIL BORINGS	EL ABANDONMENT (NEW 10	G-S) REPAIR
indefinite operation	of any well.	Permit exp	ires in 180 calendar	days from date of appro-	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it
		Pi	OJECT SITE	INFORMATION	
s	ite Address:	1301 S 46	TH ST, RICHMOND		
A	PN:	560-060-0	08	Lot/Parcel #:	
s	jubdivision#;			Minor Subdivision	#:
	.—үн	DRII	LLER / CONSULT	CANT INFORMATION	
D	riller:	WDC EXPLO	DRATION	Contact Person:	
P	hone #:	530-668-754		FAX#:	530-662-1592
C	onsultant:	STELLAR E	NVIRONMENTAL	Contact Person:	BRUCE RUCKER
P	hone#;	510-644-312	3	FAX#:	510-644-3859
	. 1000000	LE	GAL OWNER	INFORMATION	
L	egal Owner Na	ame: UNIV	ERSITY OF CALIFOR	NIA: BERKELEY	
0	wner Address	: 317 (	JNIVERSITY HALL, #1	150	
c	ity/State/Zlp:	BER	KELEY, CA 94720	•	
P	hone#:	510-6	343-9574	Alternate Phone #:	
prior to any drilling of confirmation via telep Well drillers must post commencing with an Well Permit Condition of commencing well/s  Monitoring well/s  Other:	construction of chone or fax. sses a valid C y well constructions: seals and sundrilling. soil boring sha	r destruction  -57 license a ction, destru  face constru  ill be destroy	of a well. Voice mand must have on file ction or repairs.  ction features are to red pursuant to Count	all messages are not act a performance bond of \$5 be installed and required v by regulations within 30 day	a confirmed appointment time and date ceptable. The appointment desk sends ,000.00 with Contra Costa County before vater analyses completed within 30 days as of completing monitoring activities.
Final Approval by:				Date:	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

			W	/P0005632			
	PRI	Number:	25320		PE Number:	4368	
	Date	Received:	24 JAN 06	. 1	Permit Number:	08M-1020	
Permit Appr	roved/Issued	l by:	Joce Ma	4-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1	4	Date Issued: $\sqrt{2}$	606
[	NEW WE	ill	() SOIL BORINGS	ontal Health Specialis	BANDON <b>MENT (2</b> 25)	S) REPAIR	
The issuance of this indefinite operation or can be suspended or in writing.	f any well.	Permit exp	oires in 180 cale	endar days fr	om date of appro	val. Permits are n	on-transferable, and
		P	ROJECT S	ITE INFO	RMATION	• • •	· · · · · ·
Site	Address:	1301 S 4	6TH ST, RICHMON	ND			
API	N:	560-060-	•		Lot/Parcei #:		
Sut	odivision #:				Minor Subdivision	#	
		DR	ILLER / CON	SULTANT	NFORMATION	 I	
Dril	ler:	WDC EXPL	ORATION		Contact Person:		
·	ne #:	530-668-75			FAX#:	530-662-1592	
Cor	nsultant:	STELLAR	ENVIRONMENTA	L	Contact Person: .	BRUCE RUCKER	
Pho	ne #:	510-644-31	23		FAX#:	510-644-3859	•
<del></del>	····	L	EGAL OWI	VER INFO	PRMATION	<del> </del>	
Leg	al Owner Na	me: UNI	VERSITY OF CAL	LIFORNIA: BEI	RKELEY		
Own	ner Address	: 317	UNIVERSITY HA	LL, #1150			
City	//State/Zip:	BEF	RKELEY, CA 9472	20			
Pho	ne #:	510	<del>-643-95</del> 74		Alternate Phone #;		
Contact the Contra Co prior to any drilling con confirmation via telephi Well drillers must possi commencing with any v WELL PERMIT CONDITIO 1. Proper annular se of commencing dri 2. Monitoring well/soi 3. Other:	nstruction or one or fax. es a valid Co well constructions: als and surf illing.	destruction -57 license ction, destr ace constr Il be destro	n of a well. Vo and must have o uction or repairs. uction features a yed pursuant to	ice mail mes on file a perfo are to be insta County regula	sages are not ac mance bond of \$5 fled and required values within 30 day	ceptable. The app.	cointment desk sends a Costa County before apleted within 30 days anitoring activities.
Final Approval by:		V-2. U.		Date:	. •		



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



#### **Well Permit**

	PR Numb	er: 25321	PE Number:	4368
	Date Rec	eived:  24 JAN 06	Permit Number:	06M-1021
Permit Appro	ved/issued by:	Jocalyn	Habai	Date Issued: 1/2-4/06
	NEW WELL		tal Health Specialist	/ ·
	NEW ABETT	() SOIL BORINGS	WELL-ABANDONMENT 122A	SENIE REPAIR
Indefinite operation of	any well. Pern	nit expires in 180 caler	idar days from date of appr	oes not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
,		PROJECT SI	TE INFORMATION	
Site	Address: 13	01 S 48™ ST, RICHMONI	0	
APN:	56	0-060-008	Lot/Parcel #:	
Subc	fivision #:		Minor Subdivisio	n#:
, <u> </u>		DRILLER / CONS	ULTANT INFORMATIO	N
Drille	er: WDC	EXPLORATION	Contact Person:	
Phor	ne #: 530-	668-7540	FAX#.	530-662-1592
Cons	sultant: STE	LAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
Phor	ne#: 510-	644-3123	FAX#:	510-644-3859
		LEGAL OWN	ER INFORMATION	and the state of t
L <del>og</del> a	i Owner Name:	UNIVERSITY OF CALI	FORNIA: BERKELEY	
Own	er Address:	317 UNIVERSITY HAL	L, #1150	
City/	State/Zip:	BERKELEY, CA 94720	)	
Phon	ne #:	510-643-9574	Alternate Phone i	<b>#:</b>
prior to any drilling consconfirmation via telephol Well drillers must posses commencing with any w WELL PERMIT CONDITION 1. Proper annular sea of commencing drill 2. Monitoring well/soil	struction or desine or fax. s a valid C-57 ii eli construction, s: ls and surface of ing. boring shall be	truction of a well. Volo cense and must have or destruction or repairs. construction features an	the mail messages are not a in file a performance bond of \$ in the installed and required county regulations within 30 day	ain a confirmed appointment time and date acceptable. The appointment desk sends is,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.
Final Approval by:			_ Date:	





2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

		WP0005634		
Permît A	PR Number: Date Receiv pproved(lesued by:	76d: 24 JAN 06  JOLEMAN SMETHIS	t	4368 06M-1022 pate Issued: 1/2 a / D C
	NEW WELL	Costa County Environmental H t expires in 180 calendar days f e time is required for the project	leath Division does from date of approved, a time extension	REPAIR s not guarantee a satisfactory and an rai. Permits are non-transferable, and may be granted if reasons warrant it
	Cilia Linear	PROJECT SITE INF 01 \$ 48TH ST, RICHMOND 0-060-008	Lot/Parcel #: Minor Subdivision	
<u> </u>		DRILLER / CONSULTAN	T INFORMATIO	N
	Phone #: 530 Consultant: ST	C EXPLORATION )-668-7540 ELLAR ENVIRONMENTAL 0-644-3123	Contact Person: FAX#: Contact Person: FAX#:	530-662-1592 BRUCE RUCKER 510-644-3859
		LEGAL OWNER IN	NFORMATION	l .
	Legal Owner Nam Owner Address: City/State/Zip:	e: UNIVERSITY OF CALIFORNIA 317 UNIVERSITY HALL, #1150 BERKELEY, CA 94720	: BERKELEY	e#:
prior to any or confirmation v Well drillers m commencing v WELL PERMIT 1. Proper a of comm 2. Monitoria	ining constructions is telephone or fax.  tust posses a valid C-with any well construct  CONDITIONS:  nnular seals and surfuencing drilling.  ng well/soil boring sha	nvironmental Health Division apportunction of a well. Volce mainstruction of a well. Volce mainstruction, destruction or repairs.  The acceptance of the entire of the ent	a performance bond one installed and required	btain a confirmed appointment time and date acceptable. The appointment desk sent of \$5,000.00 with Contra Costa County befored water analyses completed within 30 days of completing monitoring activities.
3. Other: _				
ACT			Deter	and make make or as to be the control of the contro
-: -! A	ral by:	and the second s	nate	



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

WP0005635

02000

can be sus in writing.	spended or revoked.	If more time is required for the	e project, a time extension	oval. Permits are non-transferable, and on may be granted if reasons warrant it
	Site Address:	1301 S 46TH ST, RICHMOND		
	APN:	560-060-008	Lot/Parcel #:	
	Subdivision #:		Minor Subdivision	#:
<u></u>		DRILLER / CONSU	TANT INFORMATION	V
	Dritler;	WDC EXPLORATION	Contact Person:	
•	Phone #:	530-668-7540	FAX#:	530-662-1592
	Consultant:	STELLAR ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-3123	FAX#:	510-644-3859
	· · · · · · · · · · · · · · · · · · ·	LEGAL OWNE	RINFORMATION	
	Legal Owner N	lame: UNIVERSITY OF CALIFO	RNIA: BERKELEY	
	Owner Addres	8: 317 UNIVERSITY HALL,	<b>#</b> 1150	
	City/State/Zip:	BERKELEY, CA 94720		
	Phone #:	510-643-9574	Alternate Phone #	<u></u>
prior to any confirmation Well drillers commencin WELL PERM 1. Proper of com 2. Monito	y drilling construction in via telephone or fax. s must posses a validing with any well constructions: annular seals and summencing drilling.	or destruction of a well. Volce  C-57 license and must have on fi uction, destruction or repairs.  Inface construction features are t	mail messages are not and le a performance bond of \$ to be installed and required and regulations within 30 dates.	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days ays of completing monitoring activities.



2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



### **Well Permit**

			W	P000563	5	
	PR	Number:	25324		PE Number:	4368
	Dat	e Received	: 24 JAN 06	<b>1</b> .	Permit Number:	06M-1024
Permit A	hpproved/Issue	d by:	Jaco liga	ntal Health Special	<del>/</del>	_ Date Issued: _ 1/2is/DC
	NEW WI	ELL	() SOIL BORINGS		ABANDONIMENT JU	REPAIR
indefinite operation	n of any well.	Permit ex	pires in 180 cale	ndar days f	rom date of appro	pes not guarantee a satisfactory and an oval. Permits are non-transferable, and on may be granted if reasons warrant it
	The second secon	P	ROJECT S	ITE INF	ORMATION	.1
	Site Address:	1301 S	46TH ST, RICHMON	ID.		•
	APN:	560-060	•	-	Lot/Parcel #:	•
	Subdivision #:				Minor Subdivision	1#:
		DR	ILLER / CON	SULTANT	INFORMATIO	N
	Driller:	WDC EXP	LORATION		Contact Person:	
	Рhопе #:	530-668-7	540		FAX#:	530-662-1592
	Consultant:	STELLAR	ENVIRONMENTAL	_	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-3	123		FAX#:	510-644-3859
/P ( 154. separtur		L	EGAL OWN	ER INF	ORMATION	- Particular and Part
	Legal Owner Na	ame: UN	IVERSITY OF CAL	IFORNIA: BE	RKELEY	·
	Owner Address	: 317	UNIVERSITY HAL	L, #1150		
	City/State/Zip:	BE	RKELEY, CA 9472	0		
	Phone #:	510	-643-9574		Alternate Phone #	<del>!</del>
prior to any drilling confirmation via tele Well drillers must prommencing with a WELL PERMIT COND 1. Proper annular of commencing 2. Monitoring well	construction of ephone or fax. osses a valid Cony well construitions:  ' seals and sure of dilling.  I/soil boring shall	r destruction  57 license cition, destruction, destruction construction constructio	on of a well. Vol e and must have o ruction or repairs. ruction features a oyed pursuant to	ice mail me on file a perfo re to be inst County regul	ssages are not a ermance bond of \$ alled and required ations within 30 da	in a confirmed appointment time and date cceptable. The appointment desk sends 5,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.
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Final Annroyal by:				Data		

Final Approval by:



# CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



#### **Well Permit**

			VVI	P0005637	
	PF	R Number:	25325	PE Number:	4368
	Da	te Received:	24 JAN 06	Permit Number:	06M-1025
Perm	it Approved/Issu	ed by:	Jacen	MA Halad	Date Issued: 1/26/06
	NEW Y	VELL (	) SOIL BORINGS	NACHARIN Specialist	REPAIR
indefinite opera	tion of any wel	l. Permit expi	ires in 180 calei	ndar days from date of appro	es not guarantee a satisfactory and an wal. Permits are non-transferable, and n may be granted if reasons warrant it
<del>,</del>		Pr	ROJECT SI	TE INFORMATION	
	Site Address:		TH ST, RICHMONI		
	APN:	560-060-0	-	Lot/Parcel #:	•
	Subdivision#	:		Minor Subdivision	#.
	<u> </u>	DRII	LLER / CONS	ULTANT INFORMATION	
	Driller:	WDC EXPLO	DRATION	Contact Person:	
	Phone #:	530-668-754	0	FAX#:	530-662-1592
	Consultant:	STELLAR E	NVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-312	3	FAX#:	510-644-3859
		LE	GAL OWN	ER INFORMATION	
	Legal Owner N	lame: UNIV	ERSITY OF CALI	FORNIA: BERKELEY	
	Owner Addres	s: 317 t	INIVERSITY HALI	L, #1150	
	Clty/State/Zip:	BERI	KELEY, CA 94720	1	
	Phone #:	510-6	43-9574	Alternate Phone #:	
prior to any drilliconfirmation via: Well drillers mus commencing with WELL PERMIT Co 1. Proper annu- of commence 2. Monitoring was	ng construction telephone or fax. f posses a valid in any well constructions: lar seals and suing drilling. rell/soil boring shape or fax.	or destruction C-57 license a uction, destru rface construi all be destroy	of a well. Voice and must have or ction or repairs. ction features an ed pursuant to C	ce mail messages are not ac in file a performance bond of \$5 e to be installed and required of County regulations within 30 day	n a confirmed appointment time and date ceptable. The appointment desk sends 1,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.

Date: \_\_\_



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### **Well Permit**

	Pi	₹ Number:	25326	PE Number:	4368	
	Da	ate Received:	24 <sub>1</sub> JAN 06	Permit Number:	06M-1026	1 .
Perm	iit Approved/Issu	ed by:	· Joic-Min	Habal	_ Date Issued: _	1/26/06
	NIPSE V	MEN &	Environmental He		and the second	7
	NEW Y	YELL (	) SOIL BORINGS	WELL ABANDONMENT (E.1	9) REPAIR	₹
indefinite opera	xtion of any wel	l. Permit exp	ires in 180 calendar	days from date of appro	oval. Permits a	ee a satisfactory and an re non-transferable, and ted if reasons warrant it
		PF	ROJECT SITE	INFORMATION		
	Site Address:	1301 S 46	TH ST, RICHMOND			
	APN:	560-060-0	08	Lot/Parcel #:		
	Subdivision #	;		Minor Subdivision	· #:	
		Dkii	LLER / CONSUL	TANT INFORMATION		. · · · · · · · · · · · · · · · · · · ·
	Driller:	WDC EXPLO	PRATION	Contact Person:		
	Phone #:	530-668-754	0	FAX#:	530-662-1592	
	Consultant:	STELLAR E	NVIRONMENTAL	Contact Person:	BRUCE RUCK	ŒR
	Phone #:	510-644-312		FAX#: 510-644-3859		
<u> </u>		LE	GAL OWNER	INFORMATION	Market and	
	Legal Owner N		ERSITY OF CALIFOR			
	Owner Addres		INIVERSITY HALL, #1		•	
	City/State/Zip:		(ELEY, CA 94720	150		
	Phone #:		43-9574	Alternate Phone #:		
confirmation via the confirmation via the commencing with the commencing with the commencial Proper annual of commencial	ng construction of fax. It is posses a valid (in any well construint) northons: lar seals and suring drill/soil boring shall/soil boring shall s	or destruction  C-57 license a  uction, destruct  face construct  all be destroy	of a well. Voice ment of a well. Voice ment of the or repairs.  Stion features are to be of pursuant to Count	ppointment desk and obtainal messages are not act as a performance bond of \$5 be installed and required by regulations within 30 days	n a confirmed appropriate name of the confirmed name o	appointment desk sends ntra Costa County before completed within 30 days monitoring activities.



PR Number:

25327

#### **CONTRA COSTA ENVIRONMENTAL HEALTH DIVISION**

2120 DIAMOND BOULEVARD, SUITE 200 CONCORD, CA 94520 (925) 646-5225 www.cocoeh.org



#### **Well Permit**

WP	ดกก	5639
	uuv	JUJJ

PE Number:

4368

	Dar	te Received:	24 JAN 06	Permit Number:	06M-1027
Permit	Approved/Issue	od by:	Jackeryn	Hulsal	Date Issued: 1/26/06
	NEW W	IEI I	Environmentel He		OCD III
	MEYT W		() SOIL BORINGS	WELD ABANDONMENT IF 20	REPAIR
indefinite operat	ion of any well	. Permit exp	pires in 180 calendai	r days from date of approx	es not guarantee a satisfactory and an val. Permits are non-transferable, and n may be granted if reasons warrant it
<u> </u>		P	ROJECT SITE	INFORMATION	
	Site Address:	1301 S 4	6TH ST, RICHMOND		
	APN:	560-060-	800	Lot/Parcel #:	
	Subdivision#;			Minor Subdivision	<b>l</b> i:
		DR	ILLER / CONSUL	TANT INFORMATION	
	Driller:	WDC EXPL	ORATION	Contact Person:	•
	Phone #:	530-668-75	i <b>4</b> 0	FAX#:	530-662-1592
-	Consultant:	STELLAR I	ENVIRONMENTAL	Contact Person:	BRUCE RUCKER
	Phone #:	510-644-31	23	FAX#:	510-644-3859
		L	EGAL OWNER	INFORMATION	Total State
	Legal Owner N	ame: UN)	VERSITY OF CALIFOR	NIA: BERKELEY	
	Owner Address	s: 317	UNIVERSITY HALL, #1	1150	
	City/State/Zip;	BEF	RKELEY, CA 94720		
· · · · · · · · · · · · · · · · · · ·	Phone #:	510-	-643-9574	Alternate Phone #:	
prior to any drillin confirmation via te Well drillers must commencing with WELL PERMIT CON 1. Proper annula of commencir 2. Monitoring we	g construction of elephone or fax. posses a valid C any well constru- portions: ar seals and sur- ng drilling.	or destruction  57 license  uction, destruction face construction	n of a well. Volce n and must have on file uction or repairs, uction features are to yed pursuant to Coun	a performance bond of \$5, be installed and required water regulations within 30 day	a confirmed appointment time and date ceptable. The appointment desk sends ,000.00 with Contra Costa County before water analyses completed within 30 days as of completing monitoring activities.
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Final Approval by:			77. Vada	Date:	
			79- VI-1-		

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										South				apor Extraction	
								rivers, etc. ar	lescribe distance on and attach a map. I ocurate and comp	Jse additional pap	er if necessary	es, /	0 0		
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			JAN T				4.	Depth to	o Static						
		10.7%	100 h	TOTAL ANN				Water L						red 01/31/2006	
Total D	epth of E	Boring	112			Feet		Tost Lo	ed Yield *_		(Hours)	Total	Drawd	own (Fe	et)
Total D	epth of C	Complet	ed Well 112		A The	Feet			ot be repres						,
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DWR 188	REV. 1/200	06		IF	- ADDITIONA	L SPACI	E IS NEEDEI	D, USE NEXT CO	JNSECU (IVEL)	1 NOWREKED	LOKIN				

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Date Wo	rk Began	01/31	/2006	_ Date	Work Ended					Latitude		1 1	Longitude
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				÷		.el		West	Please See A	ttached Site Plan	East		•
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							The second	11					nitoring
				3			- contrast						mediation
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							76	Illustrate or d	describe distance d	of well from roads, buildings,	fences,		por Extraction
								rivers, etc. at	nd attach a map. ccurate and com	Use additional paper if neces plete.	ssary.	O Oth	ner
	376					-	<u> </u>	Water	Level and	<b>Yield of Comp</b>	leted W	'ell	
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Carlotte Service Control	ditional infor						. ////	Well Contractor		Date Sig	ned C	57 Lice	ense Number
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Drilling	Method				Drilling Fluid			Mailing /	Address 31	7 University Ha	II # 1150		
	from Sur		Doo		cription grain size, colo	or oto						ate CA	Zip <u>94720</u>
Feet	to Fe	ei 	Desc	mbe material,	grain size, con	л, ек					Location		
								Address	1301 Sou	th 46th Street			
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	Soil/Wate Other Si		cal Analyses		Signed	1/2	Address	75.1	1	City 02/20	사람이 나라는 그 없다면서?	State 283326	Zip
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Page 1		of <u>3</u>				mpieti r to Instruction	on Repo	ir	State	Wall Nu	ımber/Site	Number
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epth fro	om Surfac	e		Descri	ption	or etc		City Berkele	y				CA	Zip <u>94720</u>
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7	Geologic	Log	Diagram		Name	Water Dev	elopment C	Olporation						
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	Method	Over	deal Otton	Drilling Flu					7 University Hall # 1150	
	from Sur			Description	salaa ata				Sta	ate CA Zip 94720
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							Address	1301 Sou	th 46th Street	
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						Hijks Vi	Depth to			(Feet below surface)
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			on Diagram	_	Person, F	lopment C	oration /	_		24 05002
	Geophys		g(s) nical Analyses	P.O. Box		Address	1	Zamo		CA 95698 State Zip
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	ditional inform			7	C-57 Lice	ensed Water	Well Contractor		Date Signed (	C-57 License Number

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Permit N	umber <u>W</u>	/P00056	623	Permit Date _1	/26/06				_				RS/Othe	er
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		<b>⊙</b> Ver	rtical O Hor		•	pecify	/		Iniversity of					
	Method	rfaco	M; v	Descript	ing Fluid _				Address 31					
	to Fe			cribe material, grain		, etc		City Ber	keley			Sta	te <u>CA</u>	Zip <u>94720</u>
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95	102	6	Screen	steel			6	Milled Slots	0.125					
102	105	6	Blank	steel			6							
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Well Completion Report   Description   Des	*The free	Adobe Rea	ader may b	e used to view	and complete	this form. How	wever, s	software mu	st be purchase	ed to comple	te, save, and reuse	a saved f	orm.	
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No. e036145 Page 1 State Well Number/Site Number Owner's Well Number 25 - South W N Date Work Ended 2/9/2006 Longitude Latitude Date Work Began 01/31/2006 Local Permit Agency Contra Costa County Environmental Health Division APN/TRS/Other Permit Number WP0005628 Permit Date <u>1/26/06</u> Well Owner Geologic Log Name University of California - Berkeley O Horizontal OAngle Specify Drilling Fluid Drilling Method Mailing Address 317 University Hall # 1150 Description Depth from Surface 94720 State CA Describe material, grain size, color, etc Feet to Feet Well Location Address 1301 South 46th Street \_\_\_\_ County Contra Costa City Richmond N Longitude \_\_\_\_\_ Min. Sec. Well was destroyed by tremie grouting with a slurry of neat Portland cement. Latitude Sec Decimal Lat. Decimal Long.\_ Parcel 008 APN Book 560 Page <u>060</u> Section \_ Township \_ Range Activity **Location Sketch** (Sketch must be drawn by hand after form is printed.) O New Well North O Modification/Repair O Deepen O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial Please See Attached Site Plan O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitoring O Remediation O Sparging O Test Well O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, rivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. O Other Water Level and Yield of Completed Well (Feet below surface) Depth to first water\_ Depth to Static (Feet) Date Measured 01/31/2006 Water Level 5 Estimated Yield \* (GPM) Test Type \_\_\_ Total Depth of Boring 105 Feet \_ (Hours) Total Drawdown \_\_ (Feet) Total Depth of Completed Well 105 \*May not be representative of a well's long term yield. **Annular Material** Casings Wall Outside Screen Slot Size Depth from Depth from Borehole Type Material Description Surface Thickness Diameter Type if Any Surface Diameter Feet to Feet (Inches) Feet to Feet (Inches) (Inches) (Inches) 6 94 6 Blank steel Milled Slots 0.125 6 94 101 6 Screen steel steel 6 101 105 6 Blank **Certification Statement** Attachments I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☑ Geologic Log Name Water Development Corporation ■ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) P.O. Box 141 95698 State Zip ☐ Soil/Water Chemical Analyses 283326 Signed ☑ Other Site Plan C-57 Licensed Water Well Contractor C-57 License Number Date Signed Attach additional information, if it exists. DWR 188 REV. 1/2006

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No. e036146 of <u>3</u> State Well Number/Site Number Owner's Well Number 50 - South W l N Date Work Ended 2/9/2006 Date Work Began 01/31/2006 Latitude Local Permit Agency Contra Costa County Environmental Health Division APN/TRS/Other Permit Number WP0005629 Permit Date 1/26/06 Well Owner Geologic Log Name University of California - Berkeley O Horizontal O Anale Specify Drilling Method Drilling Fluid Mailing Address 317 University Hall # 1150 Description Depth from Surface City Berkeley State CA Zip Describe material, grain size, color, etc Feet to Feet Well Location Address 1301 South 46th Street \_\_\_\_ County Contra Costa City Richmond N Longitude \_\_\_\_\_ Dea. Min. Sec. Well was destroyed by tremie grouting with a slurry of neat Portland cement. Latitude Sec \_ Decimal Lat. Decimal Long.\_\_ Parcel 008 APN Book 560 Page 060 Section . Township \_ Range **Location Sketch** Activity (Sketch must be drawn by hand after form is printed.) O New Well O Modification/Repair North O Deepen O Other\_ Destroy Describe procedures and materials under "GEOLOGIC LOG" Planned Uses O Water Supply ☐ Domestic ☐ Public ☐ Irrigation ☐ Industrial Please See Attached Site Plan O Cathodic Protection O Dewatering O Heat Exchange O Injection O Monitorina O Remediation O Sparging O Test Well South O Vapor Extraction Illustrate or describe distance of well from roads, buildings, fences, O Other\_ ivers, etc. and attach a map. Use additional paper if necessary. Please be accurate and complete. Water Level and Yield of Completed Well (Feet below surface) Depth to first water Depth to Static (Feet) Date Measured 01/31/2006 Water Level 5 Estimated Yield \* (GPM) Test Type \_ Total Depth of Boring 105 Feet (Hours) Total Drawdown \_\_ (Feet) Test Length\_ Total Depth of Completed Well 105 \*May not be representative of a well's long term yield. **Annular Material** Casings Depth from Borehole Wall Outside Screen Slot Size Depth from Material Thickness Diameter if Any Surface Fill Description Type Diameter Surface (Inches) (Inches) (Inches) Feet to Feet Feet to Feet (Inches) 0 94 6 Blank 6 steel Milled Slots 0.125 94 101 6 Screen steel 6 6 steel 101 105 6 Blank **Certification Statement** Attachments I, the undersigned, certify that this report is complete and accurate to the best of my knowledge and belief ☑ Geologic Log Name Water Development Corporation ■ Well Construction Diagram Person, Firm or Corporation ☐ Geophysical Log(s) P.O. Box 141 Zamora State Zip ☐ Soil/Water Chemical Analyses 02/20/2006 283326 ✓ Other <u>Site Plan</u> Signed. C-57 Licensed Water Well Contractor Date Signed C-57 License Number tach additional information, if it exists.

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			mical Analyses	Signed	Address	1	God	02/20/200		
	Other S				C-57 Licensed Water	Well Contractor		Date Signe		cense Number
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Well Construction Diagram       Name       Water Development Corporation         Person, Firm or Corporation       P.O. Box 141       Zamora       CA       95698         Yother Site Plan       Signed       City       State       Zip         Attach additional information, if it exists.       Ve-57 Licensed Water Well Contractor       Date Signed       C-57 License Number				hments								bo boot	of my kny	owlodge and halief
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Page 1 Owner's Well Date Work Be Local Permit Permit Numb Oriental Drilling Meth	of of Number Legan 01/31 Agency Coer WP0005 tion ② Veod of Surface	2 J-3 J-/2006 ontra Costa Cour 5636 Geolo ertical O Ho	Date Work Ender the Environmental Heal Permit Date 1/26/0 Pergic Log  rizontal OAngle  Drilling Flu	State of Complete Com	California letion Repuction Pamphlet 6152  Name Mailir	University on a Address 3	S S Latitud	OWR Use Or  tate Well Nu e APN/ APN/ erkeley all # 1150	mber/Site	Number Longitude
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Page <u>1</u> of <u>2</u> Owner's Well Number PB-18	Refer to Instruction Pa	amphlet	State Well N	Number/Site Number
S. (2000) 1900 - 2000 - 100 -	Work Ended <u>2/9/2006</u>		Latitude	Longitude
Local Permit Agency Contra Costa County Environm	ental Health Division		ADN	V/TRS/Other
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Orientation   O Vertical   O Horizontal	OAngle Specify		of California - Berkeley	
Drilling Method Post	Drilling Fluid	_	317 University Hall # 1150	
	grain size, color, etc	City Berkeley	S	state CA Zip 94720
			Well Locati	on
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				Describe procedures and materials under "GEOLOGIC LOG"
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				O Cathodic Protection
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				O Remediation
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		Illustrate or describe distance	e of well from roads, buildings, fences, . Use additional paper if necessary.	O Vapor Extraction O Other
		Please be accurate and co	mplete.	
		Water Level an	d Yield of Completed	
		Depth to first wate Depth to Static	er	(Feet below surface)
	The Paris March	Water Level 5	(Feet) Da	te Measured 01/31/2006
Total Depth of Boring 16	Feet		(GPM) Te	
Total Depth of Completed Well 16	Feet		(Hours) To	
Total Depth of Completed Well 10	T CCI	*May not be repre	esentative of a well's long	
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6 16 2 Screen PVC Sch. 4	0 0.75	slotted		
79, 99				
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Geologic Log	I, the undersigned, certify tha	t this report is compl		est of my knowledge and belief
☐ Well Construction Diagram	Name Water Development Corpora	poration		
☐ Geophysical Log(s)	P.O. Box 141		nora	CA 95698
☐ Soil/Water Chemical Analyses	Signed	B///	City 02/20/2006	State Zip
Other Site Plan	Signed C-57 Licensed Water W	ell Contractor	Date Signed	283326 C-57 License Number
Attach additional information, if it exists.  DWR 188 REV. 1/2006	IF ADDITIONAL SPACE IS NEEDED,			

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	from Sur		Des	Description cribe material, grain size			City Berl	keley		State	CA Zip	94720
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Total D	Depth of C	omple	ted Well 16		Feet				entative of a well'			(. 001)
				Coolman	431						r Material	
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			on Diagram	Name	Water Deve	elopment C	orporation					
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	Soil/Wate	er Che	mical Analyses	9:	1 111	Address	1	11/	City 02/20/2	Star		Zip
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Page 1 of 2 Page 1 Owner's Well Number PB-20						Refer t	Refer to Instruction Pamphlet  No. e036159				State W		ber/Site Nu			
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	Shifted A. Landidge	alah salah salah salah	39		te <u>1/26/06</u>							APN/TR	S/Other			
			Geol	ogic Log							Well Ov	vner				
Orientation  OVertical O Horizontal O Angle Specify									Name University of California - Berkeley							
Drilling Method Drilling Fluid									Mailing Address 317 University Hall # 1150							
Depth from		Do	Deso scribe material,	cription	or oto		City Berkeley State CA Zip 94720									
reet t	10 166	zt	De	scribe material,	grain size, con	or, etc		1 010			Well Loc			-P		
									Address 1301 South 46th Street							
									STATE OF THE STATE							
	Well was destroyed by over drilling (9-inch diameter							City Richmond County Contra Costa								
	hollow-stem augers) to full piezometer depth,							Deg. Min. Sec. Deg. Min. Sec.								
								Datum Decimal Lat Decimal Long								
	then tremie grouting results slurry of neat Portland ce					C WILLI	<u> </u>	APN Book <u>560</u> Page <u>060</u> Parcel <u>008</u>								
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		MECH-01 - 1								ion Sket				Activity		
			w <u>presentation</u>					(Sketch	must be drawn			ed.)	O New V			
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					AND A	700	1	41					O Heat E			
			25.				10 <u>188</u>	-11					O Injectio			
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		Miles of					A						O Test W			
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	100 Table 100 Ta						illustrate or describe distance of well from roads, buildings, rences, rivers, etc. and attach a map. Use additional paper if necessary.  Please be accurate and complete.									
									Water Level and Yield of Completed Well							
			- Control of the Cont				<u> </u>							ow surface)		
								Depth to first water (Feet below surface) Depth to Static								
								Water Level 5 (Feet) Date Measured 01/31/2006								
Total Dept	Total Depth of Boring 16 Feet								Estimated Yield * (GPM) Test Type							
Total Dept	Total Depth of Completed Well 16 Feet									Test Length(Hours) Total Drawdown(Feet) *May not be representative of a well's long term yield.						
										entative o				-		
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□ Ge			ments		I. the unders	sianed.	certify th		************************			e best o	of my knov	wledge and belief		
Well Construction Diagram Name Water Development Corpo								orporation								
Geophysical Log(s)  Person, Firm or Corporati								ration	Zamo	ra		CA	95698			
☐ Soil/Water Chemical Analyses								-/-	City State Zip							
☑ Other Site Plan  Attach additional information if it eviets  C-57 Licensed Water We								Moll Contracts	02/20/2006 283326 283000000000000000000000000000000000000							
Attach addition		tion, if it e	xists.					400	NOTO: IT		Date Signed	ı C-5	/ License	Number		
DWR 188 REV	7. 1/2006				IF ADDITIONAL	SPACE	IS NEEDED	, USE NEXT CO	UNSECUTIVEL	Y NUMBERE	D FORM					

### ATTACHMENT B

## Well Investigation and Closure Photodocumentation

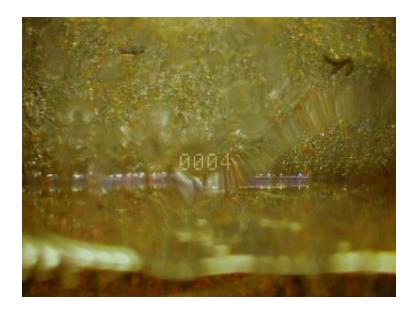


Subject: Removing submersible pump and pipe riser piping from Final Recharge Well.

Site: UC Berkeley - Richmond Field Station, Richmond, California

Date Taken: May 27, 2005 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 01



Subject: Downhole video camera survey at "Original Recharge Well" – side view at 4' depth showing well casing/water interface.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 30, 2006 Project No.: SES2005-21

Photographer: Welenco (Bakersfield, CA) Photo No.: 02

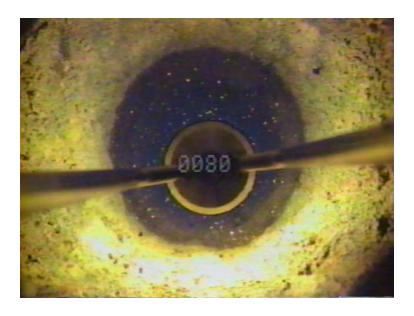


Subject: Downhole video camera survey at "Original Recharge Well" – side view at 39' depth, showing scale on casing wall.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 30, 2006 Project No.: SES2005-21

Photographer: Welenco (Bakersfield, California) Photo No.: 03



Subject: Downhole video camera survey at "Original Recharge Well" – downward view at 80' depth, showing casing walls.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 30, 2006 Project No.: SES2005-21

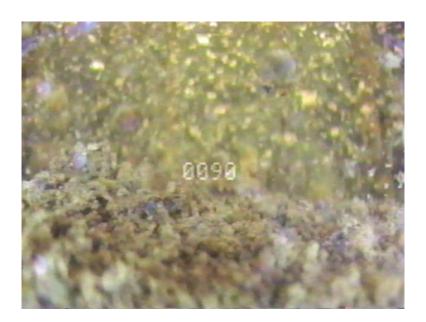
Photographer: Welenco (Bakersfield, California) Photo No.: 04



Subject: Downhole video camera survey at "Original Recharge Well" – downward view at 89' depth, showing sediment beginning.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 30, 2006 Project No.: SES2005-21
Photographer: Welenco (Bakersfield, California) Photo No.: 05



Subject: Downhole video survey at "Original Recharge Well" – side view at 90' depth, showing top of settled sediment column.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 30, 2006 Project No.: SES2005-21
Photographer: Welenco (Bakersfield, California) Photo No.: 06



Subject: Well-related surface equipment at Final Recharge Well, before demolition.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 31, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 07



Subject: Tremie-grouting at well New 50 East, showing installed tremie pipe and fitting/hose for grout pumping from rig.

Site: UC Berkeley - Richmond Field Station, Richmond, California

Date Taken: January 31, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 08



Subject: Area of former well-related surface equipment at Final Recharge Well, after demolition.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 31, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 09



Subject: Overdrilling well New 100 South, showing upper 5' of casing that was pulled from the hole by the augers.

Site: UC Berkeley - Richmond Field Station, Richmond, California

Date Taken: February 1, 2006 Project No.: SES2005-21

Photographer: Joe Dinan Photo No.: 10



Subject: Perforating tool ("mills knife"), rigged up at well 50 West.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: February 3, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 11



Subject: Test perforation at well 50 West.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: February 3, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 12



Subject: Delivering tremie pipe at well New 50-E.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: January 31, 2006 Project No.: SES2005-21

Photographer: Bruce Rucker Photo No.: 13



Subject: Overdrilling piezometer PB-20.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: February 9, 2006 Project No.: SES2005-21

Photographer: Joe Dinan Photo No.: 14



Subject: Drilling out piezometer PB-18.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: February 9, 2006 Project No.: SES2005-21

Photographer: Joe Dinan Photo No.: 15



Subject: Drilling out piezometer PB-19.

Site: UC Berkeley – Richmond Field Station, Richmond, California

Date Taken: February 9, 2006 Project No.: SES2005-21

Photographer: Joe Dinan Photo No.: 16