

August 10, 2010

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9:07 am, Aug 13, 2010

Alameda County
Environmental Health

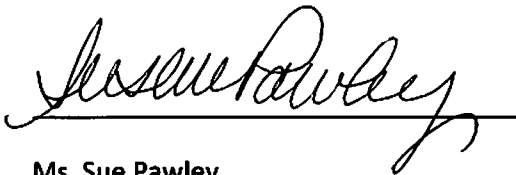
RE: Well Destruction Report

186 E. Lewelling Boulevard, San Lorenzo, California

ACEH Project No. R00000013

"I declare under threat of perjury and to the best of my knowledge at the present time, that the information contained in the attached report is true and correct."

Submitted by:

A handwritten signature in cursive script, appearing to read "Sue Pawley", is written over a horizontal line.

Ms. Sue Pawley

Authorized Agent for:

Mr. Carl Graffenstatte

P.O. Box 1295

Eatonville, Washington 98328

PII Environmental

July 27, 2010

Mr. Jerry Wickham
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Oakland, CA 94502-6577

RE: Groundwater Monitoring Well Destruction Report
186 E. Lewelling Boulevard, San Lorenzo, California
Case RO 0013, RWQCB Case 01-1041

Dear Mr. Wickham:

PII Environmental (PIIE) has prepared this Well Destruction Report documenting the proper destruction of the three groundwater monitoring wells formerly located at 186 E. Lewelling Boulevard, San Lorenzo, California (Site). The State Water Resources Control Board (SWRCB) directed regulatory closure on June 15, 2010 and requested that all groundwater monitoring wells associated with the case be properly destroyed under permit within six months.

Well destruction tasks included: 1) obtain the necessary well destruction permit from the Alameda County Public Works Agency (ACPWA); 2) pressure grout the wells under conditions permitted by the ACPWA and under direct inspection; 3) preparation of this Well Destruction Letter Report and submittal to Alameda County Health Care Services Agency; 4) submitting required Well Driller Reports to the State of California and ACPWA (copies attached); and 5) updating the State GEOTRACKER database (pending).

RATIONALE FOR PROPOSED WORK

As a requirement for receiving full regulatory closure and properly closing out the case with the Underground Storage Tank Cleanup Fund, all groundwater monitoring wells associated with a leaking UST case must be properly destroyed under permit. Following submission of the Well Destruction Report, Well Driller Reports, and proper disposal of all case-derived wastes, the case should be fully closed with the SWRCB.

Due to space limitations and traffic and business operation disruption concerns, PIIE pressure grouted the three monitoring wells according to accepted ACPWA protocols.

WELL DESTRUCTION PROCEDURES

As required by the Occupational Health and Safety Administration, 29 Code of Federal Regulations 1910.120, PIIE prepared a site specific Health and Safety Plan for the proposed work and kept it onsite during field activities.

On July 22, 2010, the three existing 2-inch-diameter groundwater monitoring wells, designated MW-1 through MW-3, with approximate total depths of 20 to 22 feet below ground surface (bgs), were destroyed by pressure grouting by Environmental Control Associates (ECA). A well destruction permit was obtained from ACPWA prior to performing field activities. Pressure grouting was witness by Ms. Victoria Hamlin with the ACPWA.

The following procedures were followed during the destruction of each well.

- The well was investigated to determine its condition and total depth. The well was sounded with a Solinst Electronic Water Meter to determine water depth, total depth, and whether any obstructions would interfere with pressure grouting.
- Grout slurry was premixed using approximately 94 pounds of Portland cement to six to seven gallons of water and mixed thoroughly to minimize lumps.
- The well was filled to the surface with grout slurry. While grout settled in the well, ECA attached a threaded safety fitting to the top of the PVC casing with PVC cement and allowed the fitting to dry thoroughly. A metal fitting with a pressure inlet valve was then threaded to the safety fitting at the top of the well, and a compressed air tank containing a minimum pressure of 80 pounds per square inch (PSI) was connected to the pressure inlet valve. Air pressure at 80 PSI or higher was applied to the grout in the well for approximately 15 to 30 seconds. The metal fitting was then removed, the well refilled with slurry, the metal fitting was placed back on the safety fitting, and the entire process repeated. After the well stopped accepting grout or a minimum of 8 gallons of slurry were introduced into the well, the well casing was topped off with slurry, and the PVC pipe cut off to the maximum extent feasible.
- The well vault box ring was removed and the sheet-metal skirt was left in place.
- Quickset concrete was mixed and placed in the hole above the grouted PVC casing, and tinted as necessary to match the surrounding pavement, and the surface was restored as feasible.
- No soil or waste water was generated during grouting of the well boreholes, and vault box pieces and other miscellaneous wastes were placed in the onsite trash bin.
- Copies of the Department of Water Resources Well Completion Reports have been submitted to the ACPWA who will ultimately submit the completed forms to the Department of Water Resources (copies attached) and this report will be uploaded to the State of California Geotracker Database following authorization from the client.

CONCLUSIONS AND OBSERVATIONS

Wells MW-1 through MW-3 were recently sampled on February 19, 2010 and found to be in good condition with no obstructions. The wells ranged in depth from approximately 20 to 22.7 feet. Theoretically, it should have taken approximately 5 gallons of grout to fill the well and 10 feet of annular sandpack. Each well accepted between 9 to 10 gallons of grout slurry, and were successfully grouted using air pressures between 70 to 100 PSI.

Generally, the wells accepted the grout slurry as expected and the wells were sealed at the surface with a minimum of 6 inches of quick-set concrete. Based on the observed pressure grouting, PIIE confirms that the three wells were properly destroyed under conditions of the well destruction permit.

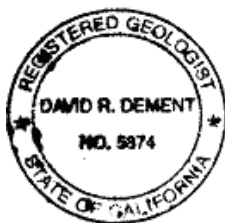
PIIE observed one full drum of well purgewater at the Site. This purgewater drum is being profiled and will be transported and recycled by a permitted contractor.

If you have any questions, please call me at (510) 520-2372 or email me at david.dement@ymail.com.

Sincerely,

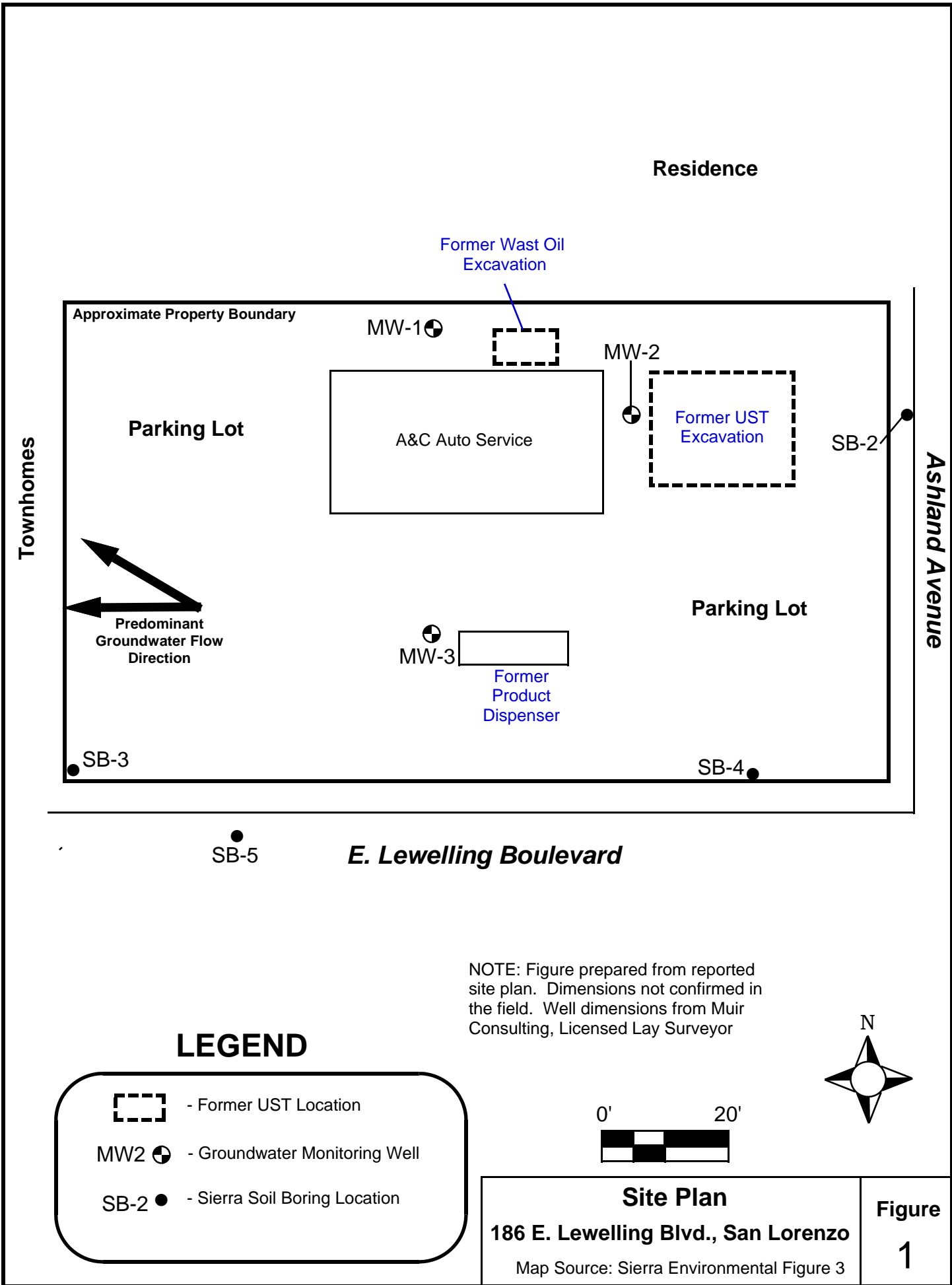


David DeMent, PG
Senior Geologist



cc: Mr. Carl Graffenstatte
Ms. Sue Pawley

Attachments: Site Plan, Permit, Well Completion Reports



Residence

Former Waste Oil Excavation

Approximate Property Boundary

MW-1

MW-2

Parking Lot

A&C Auto Service

Former UST Excavation

SB-2

Townhomes

Ashland Avenue

Parking Lot

Predominant Groundwater Flow Direction

MW-3

Former Product Dispenser

SB-3




SB-4

SB-5

E. Lewelling Boulevard

NOTE: Figure prepared from reported site plan. Dimensions not confirmed in the field. Well dimensions from Muir Consulting, Licensed Lay Surveyor

LEGEND

-  - Former UST Location
- MW2  - Groundwater Monitoring Well
- SB-2  - Sierra Soil Boring Location



<p>Site Plan 186 E. Lewelling Blvd., San Lorenzo Map Source: Sierra Environmental Figure 3</p>	<p>Figure 1</p>
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Alameda County Public Works Agency - Water Resources Well Permit



399 Elmhurst Street
Hayward, CA 94544-1395
Telephone: (510)670-6633 Fax:(510)782-1939

Application Approved on: 07/13/2010 By jamesy

Permit Numbers: W2010-0517 to W2010-0519
Permits Valid from 07/22/2010 to 07/22/2010

Application Id: 1278711255346
Site Location: 186 E Lewelling Bl, San Lorenzo, CA
Project Start Date: 07/22/2010
Assigned Inspector: Contact Vicky Hamlin at (510) 670-5443 or vickyh@acpwa.org

City of Project Site: San Lorenzo

Completion Date: 07/22/2010

Applicant: ECA - Environmental Control Assoc. - David DeMent
3011 Twin Palms Dr, Aptos, CA 95003

Phone: 831-662-8178

Property Owner: Mr. Carl Graffwinstatte
PO Box 1295, Eatonville, WA 98328
Client: ** same as Property Owner **

Phone: --

	Total Due:	\$1191.00
Receipt Number: WR2010-0245	Total Amount Paid:	\$1191.00
Payer Name : ECA	Paid By: CHECK	PAID IN FULL

Works Requesting Permits:

Well Destruction-Monitoring - 3 Wells
Driller: ECA - Lic #: 695970 - Method: press

Work Total: \$1191.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2010-0517	07/13/2010	10/20/2010	MW1	8.00 in.	2.00 in.	9.00 ft	22.00 ft	3S/2W7J10	No Records	No Records
W2010-0518	07/13/2010	10/20/2010	MW2	8.00 in.	2.00 in.	9.00 ft	23.00 ft	3S/2W7J11	No Records	No Records
W2010-0519	07/13/2010	10/20/2010	MW3	8.00 in.	2.00 in.	9.00 ft	20.00 ft	3S/2W7J12	No Records	No Records

Specific Work Permit Conditions

1. Drilling Permit(s) can be voided/ cancelled only in writing. It is the applicant's responsibility to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.

2. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an Traffic Safety Plan for any lane closures or detours planned. No work shall begin until all the permits and requirements have been approved or obtained.

3. Compliance with the well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well construction or destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

Alameda County Public Works Agency - Water Resources Well Permit

4. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost and liability in connection with or resulting from the exercise of this Permit including, but not limited to, property damage, personal injury and wrongful death.

5. Applicant shall contact Vicky Hamlin for an inspection time at 510-670-5443 or email to vickyh@acpwa.org at least five (5) working days prior to starting, once the permit has been approved. Confirm the scheduled date(s) at least 24 hours prior to drilling.

6. Permittee, permittee's contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statutes regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on or off-site storm sewers, dry wells, or waterways or be allowed to move off the property where work is being completed.

7. Remove the Christy box or similar structure.

Destroy well by grouting neat cement with a tremie pipe or pressure grouting (25 psi for 5min.) to the bottom of the well and by filling with neat cement to three (3-5) feet below surface grade. Allow the sealing material to spill over the top of the casing to fill any annular space between casing and soil.

After the seal has set, backfill the remaining hole with concrete or compacted material to match existing conditions.

8. Copy of approved drilling permit must be on site at all times. Failure to present or show proof of the approved permit application on site shall result in a fine of \$500.00.

PROGRAMS AND SERVICES

Well Standards Program

The Alameda County Public Works Agency, Water Resources is located at:

399 Elmhurst Street

Hayward, CA 94544

For Driving Directions or General Info, Please Contact 510-670-5480 or wells@acpwa.org

For Drilling Permit information and process contact [James Yoo](mailto:James.Yoo@acpwa.org) at

Phone: 510-670-6633

FAX: 510-782-1939

Email: Jamesy@acpwa.org

Alameda County Public Works is the administering agency of [General Ordinance Code, Chapter 6.88](#) . The purpose of this chapter is to provide for the regulation of groundwater wells and exploratory holes as required by [California Water Code](#). The provisions of these laws are administered and enforced by Alameda County Public Works Agency through its Well Standards Program.

Drilling Permit Jurisdictions in Alameda County: There are four jurisdictions in Alameda County.

Location: Agency with Jurisdiction Contact Number

Berkeley City of Berkeley Ph: 510-981-7460

Fax: 510-540-5672

Fremont, Newark, Union City Alameda County Water District Ph: 510-668-4460

Fax: 510-651-1760

Pleasanton, Dublin, Livermore, Sunol [Zone 7 Water Agency](#) Ph: 925-454-5000

Fax: 510-454-5728

The Alameda County Public Works Agency, Water Resources has the responsibility and authority to issue drilling permits and to enforce the County Water Well Ordinance 73-68. This jurisdiction covers the western Alameda County area of **Oakland, Alameda, Piedmont, Emeryville, Albany, San Leandro, San Lorenzo, Castro Valley, and Hayward** . The purpose of the drilling permits are to ensure that any new well or the destruction of wells, including geotechnical investigations and environmental sampling within the above jurisdiction and within Alameda County will not cause pollution or contamination of ground water or otherwise jeopardize the health, safety or welfare of the people of Alameda County.

Permits are required for all work pertaining to wells and exploratory holes at any depth within the jurisdiction of the Well Standards Program. A completed [permit application \(30 Kb\)*](#) , along with a site map, should be submitted at least **ten (10) working days prior to the planned start of work**. Submittals should be sent to the address or fax number provided on the application form. When submitting an application via fax, please use a high resolution scan to retain legibility.

Fees

Beginning April 11, 2005 , the following fees shall apply:

A permit to construct, rehabilitate, or destroy wells, including cathodic protection wells, but excluding dewatering wells (*Horizontal hillside dewatering and dewatering for construction period only), shall cost \$300.00 per well.

A permit to bore exploratory holes, including temporary test wells, shall cost \$200 per site. A site includes the project parcel as well as any adjoining parcels.

Please make checks payable to: **Treasurer, County of Alameda**

Permit Fees are exempt to State & Federal Projects

Applicants shall submit a letter from the agency requesting the fee exemption.

Scheduling Work/Inspections:

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

Please contact **James Yoo at 510-670-6633** to schedule the inspection date and time (You must have drilling permit approved prior to scheduling).

Schedule the work as far in advance as possible (at least 5 days in advance); and confirm the scheduled drilling date(s) at least 24 hours prior to drilling.

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

Request for Permit Extension:

Permits are only valid from the start date to the completion date as stated on the drilling permit application and Conditions of Approval. To request an extension of a drilling permit application, applicants must request in writing prior to the completion date as set forth in the Conditions of Approval of the drilling permit application. Please send fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. There are no additional fees for permit extensions or for re-scheduling inspection dates. You may not extend your drilling permit dates beyond 90 days from the approval date of the permit application. **NO refunds** shall be given back after 90 days and the permit shall be deemed voided.

Cancel a Drilling Permit:

Applicants may cancel a drilling permit only in writing by mail, fax or email to Water Resources Section, Fax 510-782-1939 or email at wells@acpwa.org. If you do not cancel your drilling permit application before the drilling completion date or notify in writing within 90 days, Alameda County Public Works Agency, Water Resources Section may void the permit and No refunds may be given back.

Refunds/Service Charge:

A service charge of \$25.00 dollars for the first check returned and \$35.00 dollars for each subsequent check returned.

Applicants who cancel a drilling permit application **before** we issue the approved permit(s), will receive a **FULL** refund (at any amount) and will be mailed back within two weeks.

Applicants who cancel a drilling permit application **after** a permit has been issued will then be charged a service fee of \$50.00 (fifty Dollars).

To collect the remaining funds will be determined by the amount of the refund to be refunded (see process below).

Board of Supervisors Minute Order, File No. 9763, dated January 9, 1996, gives blanket authority to the Auditor-Controller to process claims, from all County departments for the refund of fees which do not exceed \$500 (Five Hundred Dollars)(with the exception of the County Clerk whose limit is \$1,500).

Refunds over the amounts must be authorized by the Board of Supervisors Minute Order, File No. 9763 require specific approval by the Board of Supervisors. The forms to request for refunds under \$500.00 (Five Hundred Dollars) are available at this office or any County Offices. If the amount is exceeded, a Board letter and Minute Order must accompany the claim. Applicant shall fill out the request form and the County Fiscal department will process the request.

Enforcement

Penalty. Any person who does any work for which a permit is required by this chapter and who fails to obtain a permit shall be guilty of a misdemeanor punishable by fine not exceeding Five Hundred Dollars (\$500.00) or by imprisonment not exceeding six months, or by both such fine and imprisonment, and such person shall be deemed guilty of a separate offense for each and every day or portion thereof during which any such

violation is committed, continued, or permitted, and shall be subject to the same punishment as for the original offense. (Prior gen. code §3-160.6)

Enforcement actions will be determined by this office on a case-by-case basis

Drilling without a permit shall be the cost of the permit(s) and a fine of \$500.00 (Five Hundred Dollars).

Well Completion Reports (State DWR-188 forms) must be filed with the Well Standards Program within 60 days of completing work. Staff will review the report, assign a state well number, and then forward it to the California Department of Water Resources (DWR). Drillers should not send completed reports to DWR directly. Failure to file a Well Completion Report or deliberate falsification of the information is a misdemeanor; it is also grounds for disciplinary action by the Contractors' State License Board. Also note that filed Well Completion Reports are considered private record protected by state law and can only be released to the well owner or those specifically authorized by government agencies.

See our website (www.acgov.org/pwa/wells/index.shtml) for links to additional forms.

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)

REMOVED

CONFIDENTIAL

**STATE OF CALIFORNIA DWR
WELL COMPLETION REPORT
(WELL LOGS)**

REMOVED