



**CONESTOGA-ROVERS  
& ASSOCIATES**

**RECEIVED**

8:04 am, May 15, 2007

Alameda County  
Environmental Health

19449 Riverside Drive, Suite 230, Sonoma, California 95476  
Telephone: 707-935-4850 Facsimile: 707-935-6649  
www.CRAworld.com

To Whom it May Concern,

We are pleased to announce that effective April 2, 2007, Cambria Environmental Technology, Inc (Cambria) was acquired by Conestoga-Rovers & Associates (CRA) and will be conducting all future work under this new name. Our project managers, business addresses, and telephone contact numbers will remain the same. Our e-mail addresses change to \*\*\*\*\*@craworld.com. Please contact me if you would like to discuss this transition and CRA.

Sincerely,

Diane M. Lundquist  
Vice President

Equal  
Employment  
Opportunity Employer



**CONESTOGA-ROVERS  
& ASSOCIATES**

19449 Riverside Drive, Suite 230, Sonoma, California 95476  
Telephone: 707-935-4850 Facsimile: 707-935-6649  
www.CRAworld.com

May 11, 2007

Mr. Jerry Wickham  
Hazardous Materials Specialist  
Alameda County Health Care Services Agency  
1131 Harbor Bay Parkway, Suite 250  
Alameda, California 94502-6577

**Re: Well Destruction Report**  
Shell-branded Service Station  
630 High Street  
Oakland, California  
SAP Code 135693  
Incident No. 98995751  
ACHCSA # RO0000228

Dear Mr. Wickham:

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell) to document well destruction activities at the above referenced site. The well destructions were performed per Alameda County Health Care Services Agency's (ACHCSA's) December 1, 2006 letter, which concurred that no further action was required at this site related to the underground storage tank fuel release, and requested that the monitoring wells at the site be destroyed so that a remedial action completion certificate could be issued.

## **WELL DESTRUCTION ACTIVITIES**

**Field Date(s):** March 13, 2007.

**Cambria Staff:** Scott Lewis, Staff Geologist.

**Destruction Method:** All six wells (MW-1, and MW-3 through MW-7 on Figure 1) were destroyed by pressure grouting. Well destruction standard operating procedures (SOPs) are included in Attachment A. Well destruction permits are included in Attachment B.

**Waste Disposal:** Because the wells were destroyed by pressure grouting, no soil cuttings were generated during the field activities.

**DWR Well Completion Logs:** Department of Water Resources (DWR) Well Completion Logs were completed and forwarded to Gregg Drilling, Incorporated (Gregg) for their signature. Signed copies of the DWR Well Completion Reports will be sent to ACHCSA by Gregg under separate cover.

Equal  
Employment  
Opportunity Employer



**CONESTOGA-ROVERS  
& ASSOCIATES**

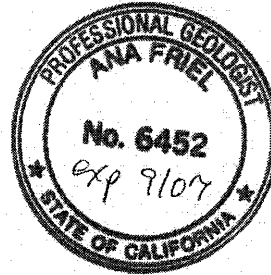
Mr. Jerry Wickham  
May 11, 2007

If you have any questions regarding the contents of this document, please call Dennis Baertschi at (707) 268-3813.

Sincerely,  
**Conestoga-Rovers & Associates**

Dennis Baertschi  
Project Geologist

Ana Friel, PG  
Associate Geologist



Figures: 1 - Site Map








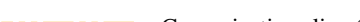






Attachments: A - SOPs  
B - Permits

cc: Mr. Denis Brown, Shell

Conestoga-Rovers & Associates (CRA) prepared this document for use by our client and appropriate regulatory agencies. It is based partially on information available to CRA from outside sources and/or in the public domain, and partially on information supplied by CRA and its subcontractors. CRA makes no warranty or guarantee, expressed or implied, included or intended in this document, with respect to the accuracy of information obtained from these outside sources or the public domain, or any conclusions or recommendations based on information that was not independently verified by CRA. This document represents the best professional judgment of CRA. None of the work performed hereunder constitutes or shall be represented as a legal opinion of any kind or nature

\\Son-s1\shared\Sonoma.Shell\Oakland 630 High St\REPORTS\Final Well Destr 2007\May '07 Well Destroy Rpt.doc

### EXPLANATION

-  Destroyed Well
-  Electrical line (E)
-  Storm drain line (SD)
-  Sanitary sewer line (SS)
-  Water line (W)
-  Gas line (G)
-  Communications line (T)
-  Shell oil pipeline (O)
-  City of Oakland Electrical vault (E)
-  Water vault (W)
-  City of Oakland Manhole (MH)
-  Utility Pole
-  Storm Drain inlet (SD)
-  Flow direction
- FL** Flow line elevation, in feet above mean sea level

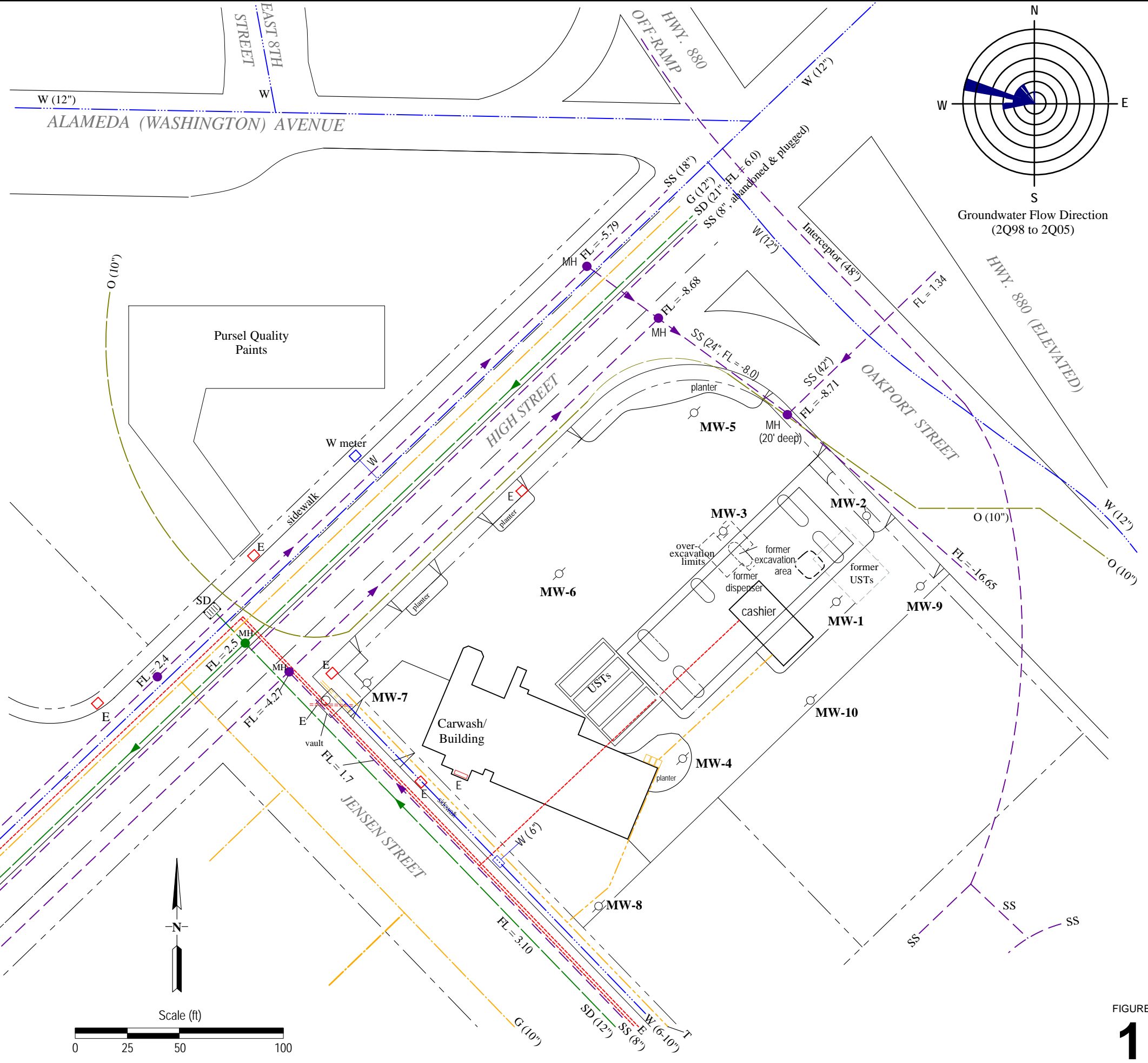
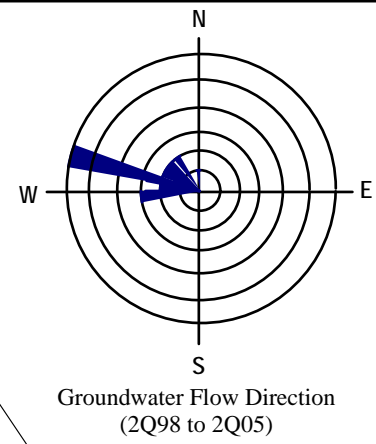


FIGURE  
**1**

**Attachment A**  
**Standard Operating Procedures**

## **STANDARD FIELD PROCEDURES FOR DESTROYING MONITORING WELLS**

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

### **Pressure Grouting**

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

### **Well Drill Out**

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

## **Attachment B**

### **Permits**

# 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: 03/05/2007 By Jamesy**

**Permit Numbers: W2007-0252 to W2007-0257**  
**Permits Valid from 03/13/2007 to 03/16/2007**

**Application Id:** 1172612360695  
**Site Location:** 630 High Street  
**Project Start Date:** 03/13/2007

**City of Project Site:**Oakland

**Completion Date:**03/16/2007

**Applicant:** Cambria Env't - Scott Lewis  
19449 Riverside Drive, Suite 230, Sonoma, CA 95476

**Phone:** 707-933-2369

**Property Owner:** Equilon Enterprise, LLC  
1980 Post Oak Blvd, Suite 110, Houston, TX 77056

**Phone:** 707-865-0251

**Client:** \*\* same as Property Owner \*\*  
**Contact:** Scott Lewis

**Phone:** 707-933-2369  
**Cell:** 707-249-0697

<b>Receipt Number: WR2007-0104</b>	<b>Total Due:</b>	\$1800.00
<b>Payer Name : Cambria Env't</b>	<b>Total Amount Paid:</b>	\$1800.00
	<b>Paid By: CHECK</b>	<b>PAID IN FULL</b>

**Works Requesting Permits:**

Well Destruction-Monitoring - 6 Wells

Driller: Gregg Drilling - Lic #: 485165 - Method: press

**Work Total: \$1800.00**

**Specifications**

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth	State Well #	Orig. Permit #	DWR #
W2007-0252	03/05/2007	06/11/2007	MW-1	10.00 in.	4.00 in.	13.00 ft	13.00 ft			
W2007-0253	03/05/2007	06/11/2007	MW-3	10.00 in.	4.00 in.	17.00 ft	17.00 ft			
W2007-0254	03/05/2007	06/11/2007	MW-4	10.00 in.	4.00 in.	17.00 ft	17.00 ft			
W2007-0255	03/05/2007	06/11/2007	MW-5	10.00 in.	4.00 in.	18.00 ft	18.00 ft			
W2007-0256	03/05/2007	06/11/2007	MW-6	10.00 in.	4.00 in.	20.00 ft	20.00 ft			
W2007-0257	03/05/2007	06/11/2007	MW-7	10.00 in.	4.00 in.	20.00 ft	20.00 ft			

**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



## **Alameda County Public Works Agency - Water Resources Well Permit**

appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including permit number and site map.

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 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. 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.

7. 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.

---