

# TOXICHEM Management Systems, Inc.

Environmental & Occupational Health Services

11 Kenton Avenue  
San Carlos, California 94070  
(650) 551-0112 / Fax (650) 551-0116

Industrial Hygiene - Exposure Assessment  
Quantitative Risk Assessment  
Compliance Audits  
Real Property Environmental Assessments  
Remedial Investigations  
Air, Soil, and Groundwater Sampling  
Remedial Engineering and Construction  
Regulatory Compliance and Negotiation  
Litigation Support Services

January 18, 2005  
Project EQ-76.2B

## REPORTS

Mr. Wyman Hong  
Zone 7 Water Agency  
5997 Parkside Drive  
Pleasanton, California 94588-5127

Alameda County  
JAN 21 2005  
Environmental Health

Re: **Tank Backfill Well Destruction Report**  
Shell Branded Service Station  
4226 First Street, Pleasanton, California  
Incident No. 98995840, SAP No. 135782

Dear Mr. Hong:

On behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell), Toxicchem Management Systems, Inc. (TOXICHEM) has prepared this letter to document the proper destruction of four underground storage tank (UST) backfill wells (designated TB-1 through TB-4, Figure 1) during the performance of UST upgrade activities at the above referenced site.

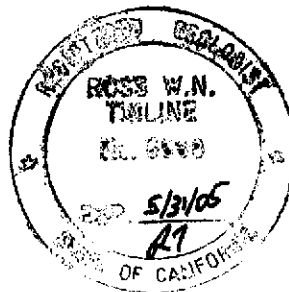
At the request of the Livermore-Pleasanton Fire Department, prior to well destruction, we inquired of Zone 7 Water Agency who requested a permit (#25006) for tank backfill well destruction be submitted to them (Attachment A). Prior to destruction activities, all of the wells were sounded to ensure that no obstructions were present to the maximum well depth of 13.28 feet (Attachment A). Due to the wells being installed entirely within the UST backfill, the permit allowed the filling of each well with pea gravel to two feet below final grade. On January 13, 2005, Town and Country Contractors, Inc. of Rancho Cordova destroyed the four wells according to the provisions of the Zone 7 Water Agency by infilling with pea gravel and cutting off the top two feet of casing. A concrete slab was then poured over the entire UST complex and former well locations. A copy of the *Site well permit* and *completed DWR reports* are provided as Attachment A.

If you have any further questions regarding this site, please contact me at your convenience at (650) 551-0112.

Sincerely,

Toxicchem Management Systems, Inc.

Ross Tinline, R.G.  
Senior Geologist



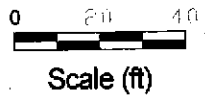
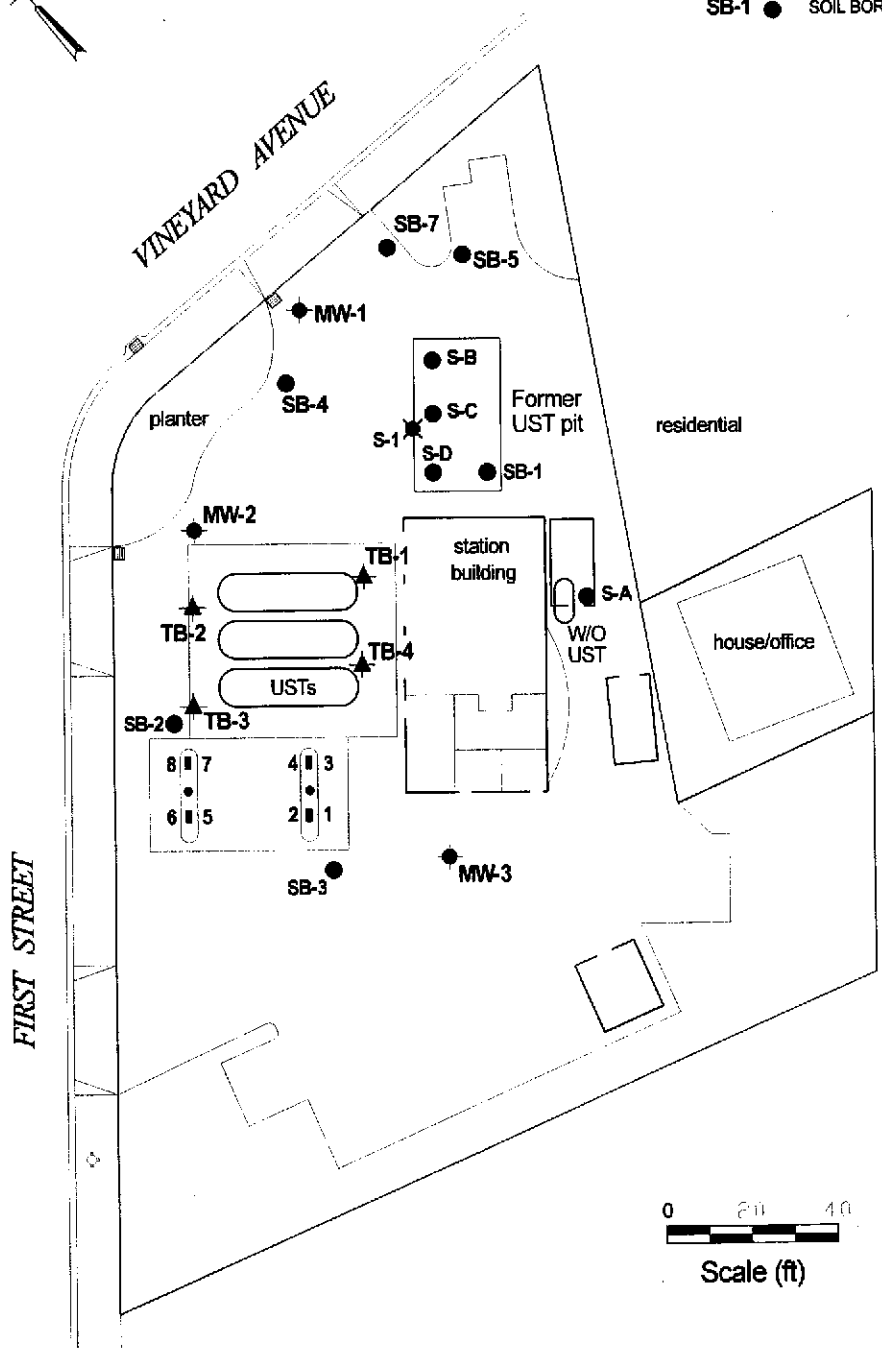
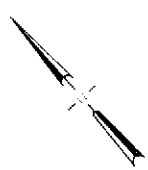
January 18, 2005  
Page 2

Attachment: **Figure 1 – Site Map**  
**Attachment A - Well Destruction Permit and DWR Reports**


cc: Karen Petryna, Shell Oil Products US, 20945 South Wilmington, Carson, CA 90810  
Bill Merchant, Shell Oil Products US, 9141 E. Stockton Blvd. Ste 250-321  
Elk Grove, CA 95624  
Robert Schultz, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway,  
Alameda, CA 94502-6577  
Paul Smith, Livermore-Pleasanton Fire Department, 3560 Nevada Street  
Pleasanton, California 94566

**LEGEND**

- MW-1 ◆ MONITORING WELL LOCATION AND DESIGNATION
- S-1 ✖ DESTROYED WELL
- TB-1 ▲ OBSERVATION WELL LOCATION
- SB-1 ● SOIL BORING LOCATION



BASEMAP FROM CAMBRIA ENVIRONMENTAL TECHNOLOGY, Inc.

 <p><b>TOXICHEM</b> Management Systems, Inc. Environmental &amp; Occupational Health Services</p>	<p>Shell-Branded Service Station 4226 First Street Pleasanton, California</p>	<p>FIGURE: <b>1</b></p>
	<p>SITE MAP</p>	<p>PROJECT: EQ-76</p>

**ATTACHMENT A**  
**WELL DESTRUCTION PERMIT AND DWR REPORTS**



ALAMEDA COUNTY FLOOD CONTROL AND WATER CONSERVATION DISTRICT

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 PHONE (925) 484-2600 FAX (925) 462-3914

January 13, 2005

Mr. Ross Tinline  
Toxichem Management Systems, Inc.  
11 Kenton Avenue  
San Carlos, CA 94070

Dear Mr. Tinline,

Enclosed is drilling permit 25006 for the destruction of monitoring wells 3S/1E-21C26 to 21C29 at 4226 First Street in Pleasanton for Equilon Enterprises (Shell Oil Products). Also enclosed are current drilling permit applications for your files.

Please note that permit condition A-2 requires that a well destruction report be submitted after completion of the work. The report should include a description of methods and materials used to destroy the wells, location sketch, date of destruction, and permit number. Please submit the original of your completion report. We will forward your submittal to the California Department of Water Resources.

If you have any questions, please contact me at extension 235 or Matt Katen at extension 234.

Sincerely,

Wyman Hong  
Water Resources Specialist

Enc.



# ZONE 7 WATER AGENCY

5997 PARKSIDE DRIVE PLEASANTON, CALIFORNIA 94588-5127 VOICE (925) 484-2600 X235 FAX (925) 462-3914

## DRILLING PERMIT APPLICATION

FOR APPLICANT TO COMPLETE

FOR OFFICE USE

LOCATION OF PROJECT SHELL BRANDED SERVICE STATION  
4226 FIRST STREET  
PLEASANTON

PERMIT NUMBER 25006  
WELL NUMBER 3S/1E-21C26, 21C27, 21C28 & 21C29  
APN 094-0095-024-00

California Coordinates Source Z-one NAD83 Accuracy ft.  
CCN 37.66 Accuracy ft.  
APN 094-0095-024-00

### PERMIT CONDITIONS

Circled Permit Requirements Apply

CLIENT Equilon Enterprises LLC dba  
Name Shell Oil Products US - Bill Merchant (A)  
Address 20945 S Wilmington Phone (916) 684-6125  
City Carson Ca Zip 90810

### GENERAL

1. A permit application should be submitted so as to arrive at the Zone 7 office five days prior to proposed starting date.
2. Submit to Zone 7 within 60 days after completion of permitted work the original Department of Water Resources Water Well Drillers Report or equivalent for well projects, or drilling logs and location sketch for geotechnical projects.
3. Permit is void if project not begun within 90 days of approval date.

APPLICANT  
Name Ross Tinline, Toxicchem Management Systems  
Address 11 Kanton Avenue Phone 650 551-0112  
City San Carlos CA Zip 94070

### B. WATER SUPPLY WELLS

1. Minimum surface seal diameter is four inches greater than the well casing diameter.
2. Minimum seal depth is 50 feet for municipal and industrial wells or 20 feet for domestic and irrigation wells unless a lesser depth is specially approved.
3. Grout placed by tremie.
4. An access port at least 0.5 inches in diameter is required on the wellhead for water level measurements.
5. A sample port is required on the discharge pipe near the wellhead.

### TYPE OF PROJECT:

- Well Construction .. Geotechnical Investigation ..
  - Well Destruction .. Contamination Investigation ..
  - Cathodic Protection .. Other UST Tank ..
- Backfill - observation Well

### PROPOSED WELL USE:

- Domestic .. Irrigation ..
- Municipal .. Remediation ..
- Industrial .. Groundwater Monitoring ..
- Dewatering .. Other Historic tank Pit Leak detection ..

### C. GROUNDWATER MONITORING WELLS INCLUDING PIEZOMETERS

1. Minimum surface seal diameter is four inches greater than the well or piezometer casing diameter.
2. Minimum seal depth for monitoring wells is the maximum depth practicable or 20 feet.
3. Grout placed by tremie.

### DRILLING METHOD:

- Mud Rotary .. Air Rotary .. Hollow Stem Auger ..
- Cable Tool .. Direct Push .. Other PVC placed in tank backfill during placement of tanks. ..

### D. GEOTECHNICAL. Backfill bore hole with compacted cuttings or heavy bentonite and upper two feet with compacted material. In areas of known or suspected contamination, tremied cement grout shall be used in place of compacted cuttings.

### DRILLING COMPANY

DRILLER'S LICENSE NO. Unknown

### E. CATHODIC. Fill hole above anode zone with concrete placed by tremie.

### WELL SPECIFICATIONS:

Drill Hole Diameter	<u>NA</u> in.	Maximum	
Casing Diameter	<u>4 1/2</u> in.	Depth	<u>13.28</u> ft.
Surface Seal Depth	<u>NA</u> ft.	Number	<u>4</u>

### F. WELL DESTRUCTION. See attached.

### SOIL BORINGS:

Number of Borings		Maximum	
Hole Diameter	_____ in.	Depth	_____ ft.

ESTIMATED STARTING DATE 1-12 or 1-13-05  
ESTIMATED COMPLETION DATE 1-12 or 1-13-05

I hereby agree to comply with all requirements of this permit and Alameda County Ordinance No. 73-68.

Approved Wynman Hong Date 1/13/05

APPLICANT'S SIGNATURE Ross Tinline Date 1-12-05

### ATTACH SITE PLAN OR SKETCH

Note:

*The tank backfill wells have previously been designated TB-1 thru TB-4.*

Number	Diameter	Depth
TB-1	4"	12.73
TB-2	12"	12.68
TB-3	4"	13.28
TB-4	12"	12.64

P:\WREI\WYMAN\drilling permit.wpd

Revised: March 26, 2002

January 13, 2005

**Zone 7  
Water Resources Engineering  
Groundwater Protection Ordinance**

**Equilon Enterprises (Shell Oil Products)  
4226 First Street  
Pleasanton  
Well 35/1E 21C  
Permit 24063**

**Destruction Requirements**

1. Remove from the well any pump, appurtenances, debris, or other materials to the bottom of the well.
2. Sound the well as deeply as practicable and record for your report.
3. Fill the well below 2 feet with pea gravel as necessary. Neat cement, cement grout, or concrete may be substituted for pea gravel, if desired.
4. Remove any casing(s) and annular seals to two feet below the finished grade or original ground, whichever is the lower elevation.
5. After the seal has set, backfill the remaining hole with compacted material.

**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**



**CONFIDENTIAL**

STATE OF CALIFORNIA DWR  
WELL COMPLETION REPORT  
(WELL LOGS)

**REMOVED**

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STATE OF CALIFORNIA DWR  
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**REMOVED**